



**Stainless steel cylinders  
ISO 6432**



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ISO 15552**



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silenced exhaust restrictors**



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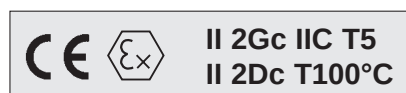
# Stainless Steel cylinders ISO 6432

Bores from 16 to 25 mm

Double acting



| Standard executions                                             |        |       |
|-----------------------------------------------------------------|--------|-------|
| Version                                                         | Symbol | Type  |
| Magnetic                                                        |        | MDMX  |
| Magnetic with adjustable cushionings<br>(bore from 20 to 25 mm) |        | MDMAX |



On request, they can be supplied according to 2014/34/EU - ATEX



| Options                    | Suffix |
|----------------------------|--------|
| Through rod                | P      |
| Seals FKM -20°C ÷ +150°C   | V      |
| Special version on request | / S    |

The options can be combined (when this is possible).

Series of stainless steel cylinders conforming to ISO 6432 standards.

The heads are connected with the tube through rolling; this guarantees perfect tightening.

The cushionings are in nitrile rubber to relieve the impact of the piston.

One or more magnetic reed switches can be applied to the magnetic type.

For the magnetic reed switches type ASV see from page 1.110.1.

For mounting accessories see from page 5.30.1.

For rod clevis see from page 5.20.1.

How to order: 20/50 MDMXP

|      |   |        |      |        |
|------|---|--------|------|--------|
| 20   | / | 50     | MDMX | P      |
| Bore | / | Stroke | Type | Option |

| Technical data    |                                                                                                                                                                         |                    |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| Fluid             | Compressed filtered air with or without lubrication. Lubrication, if started, must be continued.                                                                        |                    |
| Pressure          | max 10 bar                                                                                                                                                              |                    |
| Temperature range | -20°C ÷ + 80°C (standard)                                                                                                                                               | -20°C ÷ +150°C (V) |
| Materials         | Heads: Stainless steel AISI 304<br>Barrel: Stainless steel AISI 304<br>Rod: Stainless steel AISI 304<br>Seal: Polyurethane<br>Bushing: Sintered bronze<br>Piston: Brass |                    |

| Bore (mm) | Corse standard (mm)                                    | Maximum stroke (mm) |
|-----------|--------------------------------------------------------|---------------------|
| 16        | 10, 25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500 | 1000                |
| 20        |                                                        |                     |
| 25        |                                                        |                     |

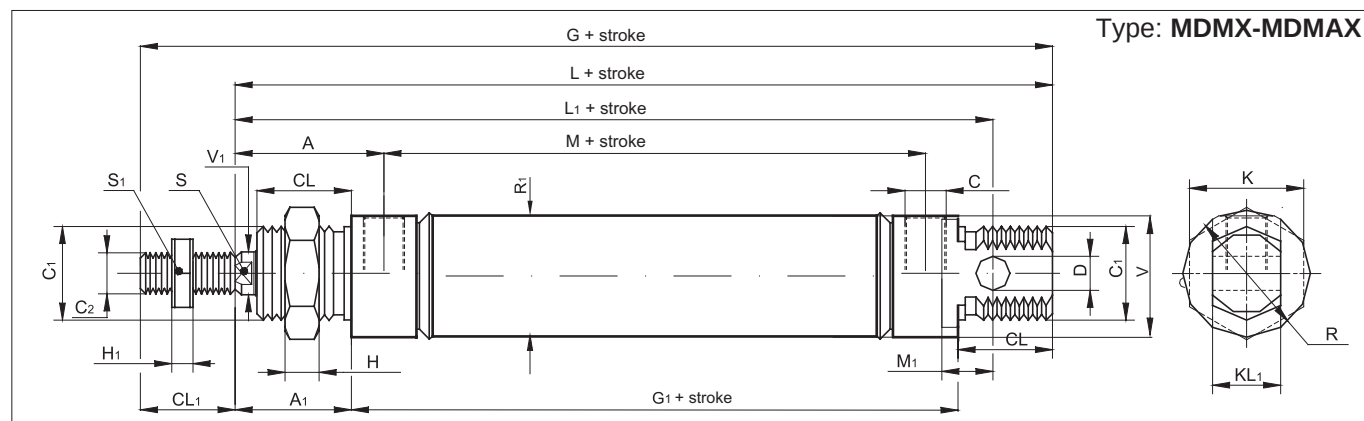
See page 1.1.3 to calculate the cylinder force.  
Seal kits not available for these cylinders.



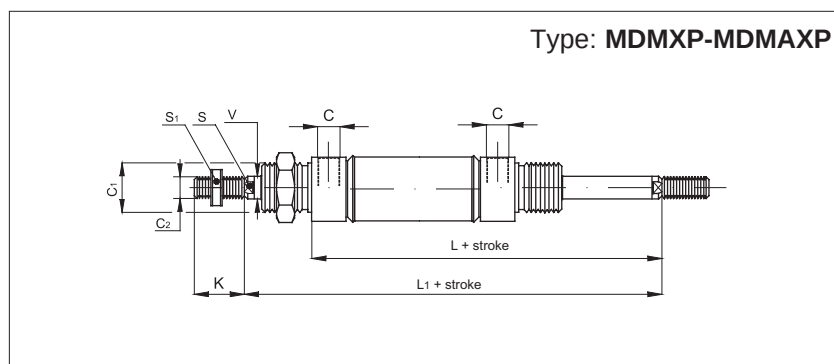
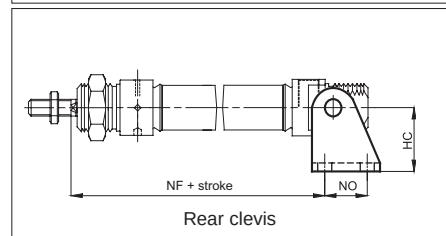
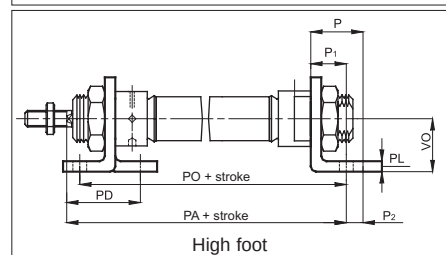
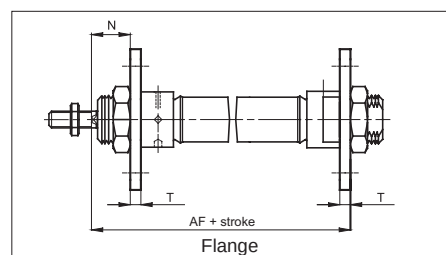
# Stainless Steel cylinders ISO 6432

Bores from 16 to 25 mm

Double acting



| Ø mm | C2       | V1 | C1      | R  | KL1 | R1    | V    | D | CL1 | L1  | L   | M  | G1 | A1 | CL | A  | M1 | S | C    | G   | K  | H | H1 | S1 |
|------|----------|----|---------|----|-----|-------|------|---|-----|-----|-----|----|----|----|----|----|----|---|------|-----|----|---|----|----|
| 16   | M6       | 6  | M16x1,5 | 20 | 12  | 17,27 | 19   | 6 | 16  | 82  | 96  | 46 | 56 | 22 | 18 | 27 | 9  | 5 | M5   | 112 | 24 | 6 | 3  | 10 |
| 20   | M8       | 8  | M22x1,5 | 27 | 16  | 21,27 | 25,5 | 8 | 20  | 95  | 111 | 51 | 67 | 24 | 20 | 32 | 12 | 7 | 1/8" | 131 | 27 | 8 | 4  | 13 |
| 25   | M10x1,25 | 10 | M22x1,5 | 30 | 16  | 26,5  | 28   | 8 | 22  | 104 | 118 | 52 | 67 | 29 | 22 | 37 | 12 | 9 | 1/8" | 140 | 27 | 8 | 5  | 17 |



| Ø mm | L    | L1   | C    | C1      | C2       | S | S1 | V  | K  |
|------|------|------|------|---------|----------|---|----|----|----|
| 16   | 74,5 | 96,5 | M5   | M16x1,5 | M6       | 5 | 10 | 6  | 16 |
| 20   | 92   | 116  | 1/8" | M22x1,5 | M8       | 7 | 13 | 8  | 20 |
| 25   | 97   | 125  | 1/8" | M22x1,5 | M10x1,25 | 9 | 17 | 10 | 22 |

| Ø mm | AF    | HC | P  | P1 | P2 | PA    | PD | PL | PO    | T | VO | N  |
|------|-------|----|----|----|----|-------|----|----|-------|---|----|----|
| 16   | 82    | 27 | 20 | 14 | 6  | 92    | 32 | 4  | 84    | 4 | 20 | 18 |
| 20   | 97    | 30 | 25 | 17 | 8  | 109   | 36 | 5  | 102   | 5 | 25 | 19 |
| 25   | 102,5 | 30 | 25 | 17 | 8  | 114,5 | 40 | 5  | 103,5 | 5 | 25 | 23 |

For dimensions and codes of the accessories see page 5.30.1

# Stainless Steel Cylinders ISO 15552

Bores from 32 to 200 mm

Double acting

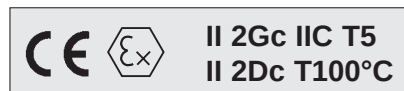


| Standard executions |        |      |
|---------------------|--------|------|
| Version             | Symbol | Type |
| Magnetic Standard   |        | AMX  |

For the magnetic reed switches type ASV see from page 1.110.1.  
For coupling cylinders/reed switches/brackets see table on page 1.120.5

For mounting accessories see from page 5.40.1

For rod accessories see from page 5.20.1.



On request, they can be supplied according to 2014/34/EU - ATEX

NSF

Lubrication with synthetic grease long lasting for applications with low start up, granting low friction and a permanent lubrication film.

Fully composed by non-toxic elements conforming to directive FDA section 21 CFR 178 about accidental contact with food ( registered NSF H1 ).



New series of stainless steel 316 L cylinders conforming to ISO15552.

Round tube and external tie-rods, standard with adjustable cushionings.

Scraper ring in polyurethane specially developed for chemical and food industries.

The main features of this cylinder are the "clean" modern design and the attention to details.

A particular attention has been given to the manufacture of the end caps; there are no external casting cavities, thus eliminating contamination traps.

In order to facilitate the replacement of the piston rod seal the nose has been developed for simple maintenances also on cylinders still mounted on a machine.

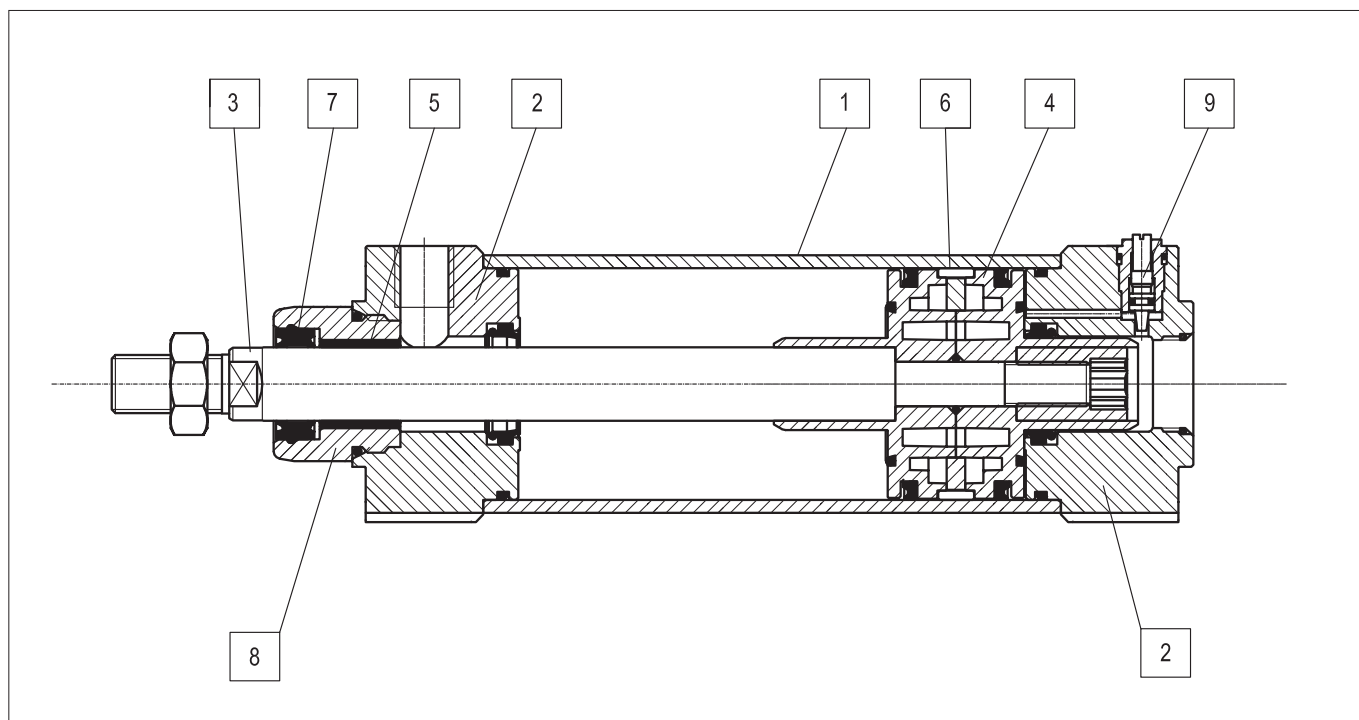
| Options                                                                                                                                                                                            | Suffix |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Through rod (pag. 5.5.4)                                                                                                                                                                           | P      |
| Seals FKM -20°C ÷ +150°C                                                                                                                                                                           | V      |
| Scraper ring only FKM -20°C ÷ +80°C                                                                                                                                                                | V1     |
| Low temperature seals -40°C ÷ +80°C                                                                                                                                                                | BT     |
| Tandem forward movement piston rods coupled together (pag. 5.5.5)                                                                                                                                  | TA1    |
| Tandem forward movement piston rods independent (pag. 5.5.5)                                                                                                                                       | TA2    |
| Tandem back to back (pag. 5.5.5)                                                                                                                                                                   | TA3    |
| Tandem front to front (pag. 5.5.5)                                                                                                                                                                 | TA4    |
| Extended rod (indicate the requested WH dimension in mm. E.g.: WH-100)                                                                                                                             | WH-... |
| Without adjustable cushionings                                                                                                                                                                     | D      |
| Adjustable rear cushioning only                                                                                                                                                                    | D1     |
| Adjustable front cushioning only                                                                                                                                                                   | D2     |
| Special male thread (indicate the requested thread. E.g. : R-M 10x1,5).<br>The dimension AM of the special thread will be the same as the standard. The cylinder will be supplied without rod nut. | R-M... |
| Female thread; for dimensions see page 5.5.4                                                                                                                                                       | F      |
| With bellows for protection of the rod (in this case the dimension WH will be extended according the stroke of the cylinder)                                                                       | Z      |
| NBR seals                                                                                                                                                                                          | H      |
| Piston rod scraping ring in nitrile rubber NBR                                                                                                                                                     | H1     |
| Special on request                                                                                                                                                                                 | /S     |

The options can be combined (when this is possible).

The suffix of the options are to be added to the model number of the standard product, as shown in the following table.

How to order: 63 / 100 AMXPVR-M12x1,25

|      |   |        |      |        |        |            |
|------|---|--------|------|--------|--------|------------|
| 63   | / | 100    | AMX  | P      | V      | R-M12X1,25 |
| Bore | / | Stroke | Type | Option | Option | Option     |



## Materials (standard types)

|             |                        |                                   |
|-------------|------------------------|-----------------------------------|
| 1           | Tube and tie-rods      | Stainless steel AISI 316L         |
| 2           | Heads                  | Stainless steel AISI 316L         |
| 3           | Rod                    | Stainless steel AISI 316L, lapped |
| 4           | Piston                 | Die-cast aluminium                |
| 5           | Bushing                | Self-lubricating sintered bronze  |
| 6           | Guide ring             | Natural Delrin                    |
| 7           | Rod seals              | Special polyurethane              |
| 8           | Disassembling nose     | Stainless steel AISI 316L         |
| 9           | Group cushioning screw | Stainless steel AISI 316L         |
| Other seals |                        | Nitrile rubber NBR/polyurethane   |

## Technical data

|                   |                             |                                                                                                  |            |           |                    |           |      |                    |         |       |
|-------------------|-----------------------------|--------------------------------------------------------------------------------------------------|------------|-----------|--------------------|-----------|------|--------------------|---------|-------|
| Bore (mm)         |                             | 32                                                                                               | 40         | 50        | 63                 | 80        | 100  | 125                | 160     | 200   |
| Fluid             |                             | Compressed filtered air with or without lubrication. Lubrication, if started, must be continued. |            |           |                    |           |      |                    |         |       |
| Pressure          |                             | 0,5 ÷ 10 bar                                                                                     |            |           |                    |           |      |                    |         |       |
| Temperature range |                             | -20°C ÷ +80°C (standard /V1)                                                                     |            |           | -20°C ÷ +150°C (V) |           |      | -40°C ÷ +80°C (BT) |         |       |
| Stroke            |                             | from 10 mm to 2500 mm                                                                            |            |           |                    |           |      |                    |         |       |
| Cushion lenght    |                             | 20                                                                                               | 22         | 25        | 25                 | 35        | 35   | 35                 | 48      | 48    |
| Ports             |                             | 1/8"                                                                                             | 1/4"       |           | 3/8"               |           | 1/2" |                    | 3/4"    |       |
| Rod thread        |                             | M10 x 1,25                                                                                       | M12 x 1,25 | M16 x 1,5 |                    | M20 x 1,5 |      | M27 x 2            | M36 x 2 |       |
| Weight            | Stroke zero (g)             | 860                                                                                              | 1350       | 2290      | 2940               | 4960      | 7030 | 12730              | 24780   | 31320 |
|                   | Additional 10 mm Stroke (g) | 27                                                                                               | 35         | 61        | 66                 | 106       | 116  | 214                | 331     | 478   |

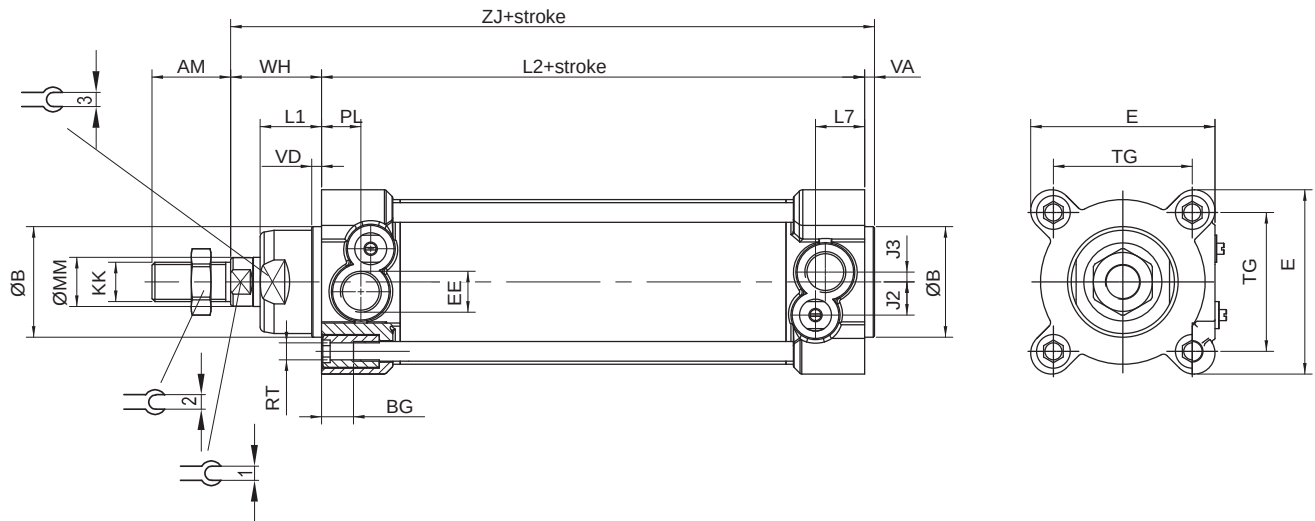
# Stainless Steel Cylinders ISO 15552

## Bores from 32 to 200 mm

### Standard dimensions



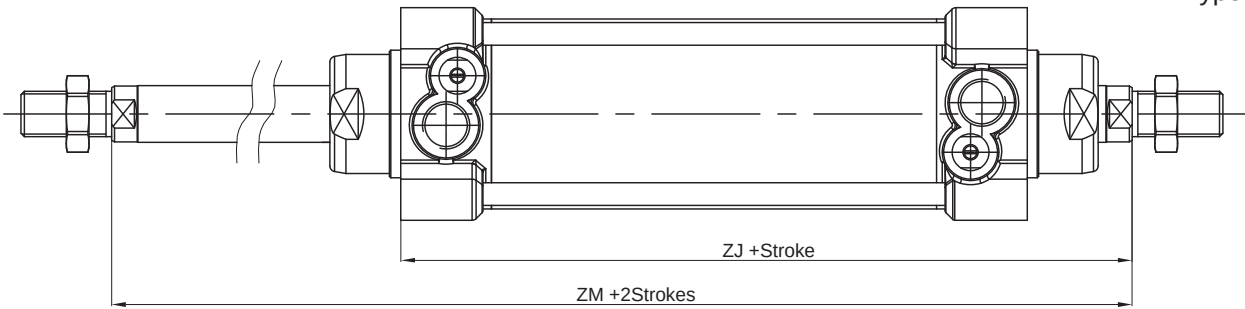
Type: **AMX**



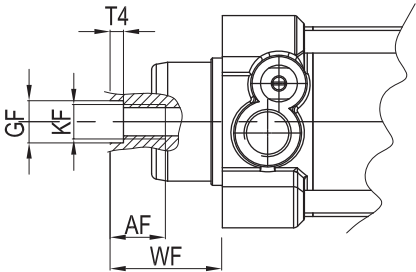
| Ø (mm) | AM | B<br>Ø d11 | BG | E   | EE   | J2   | J3  | KK       | L1 | L2  | H  |
|--------|----|------------|----|-----|------|------|-----|----------|----|-----|----|
| 32     | 22 | 30         | 15 | 47  | G1/8 | 6    | 5   | M10x1,25 | 20 | 94  | 8  |
| 40     | 24 | 35         | 15 | 52  | G1/4 | 7.5  | 5   | M12x1,25 | 22 | 105 | 6  |
| 50     | 32 | 40         | 16 | 65  | G1/4 | 9.5  | 7,5 | M16x1,5  | 26 | 106 | 8  |
| 63     | 32 | 45         | 16 | 75  | G3/8 | 13.5 | 4   | M16x1,5  | 25 | 121 | 8  |
| 80     | 40 | 45         | 17 | 95  | G3/8 | 13.5 | 6   | M20x1,5  | 32 | 128 | 10 |
| 100    | 40 | 55         | 17 | 115 | G1/2 | 15   | 6   | M20x1,5  | 38 | 138 | 10 |
| 125    | 54 | 60         | 21 | 140 | G1/2 | 17   | 8   | M27x2    | 40 | 160 | 14 |
| 160    | 72 | 65         | 24 | 180 | G3/4 | 17   | 15  | M36x2    | 50 | 180 | 14 |
| 200    | 72 | 75         | 24 | 220 | G3/4 | 17   | 15  | M36x2    | 65 | 180 | 14 |

| Ø (mm) | L7   | MM<br>Ø f7 | PL   | RT  | TG   | VA | VD | WH | ZJ  | 1  | 2  | 3  |
|--------|------|------------|------|-----|------|----|----|----|-----|----|----|----|
| 32     | 17.5 | 12         | 10   | M6  | 32,5 | 4  | 4  | 26 | 124 | 10 | 17 | 27 |
| 40     | 21.5 | 16         | 15   | M6  | 38   | 4  | 4  | 30 | 139 | 13 | 19 | 32 |
| 50     | 20   | 20         | 15   | M8  | 46,5 | 4  | 4  | 37 | 147 | 17 | 24 | 36 |
| 63     | 20   | 20         | 16   | M8  | 56,5 | 4  | 4  | 37 | 162 | 17 | 24 | 38 |
| 80     | 27   | 25         | 20   | M10 | 72   | 4  | 4  | 46 | 178 | 22 | 30 | 42 |
| 100    | 28.5 | 25         | 23.5 | M10 | 89   | 4  | 4  | 51 | 193 | 22 | 30 | 50 |
| 125    | 31.5 | 32         | 23.5 | M12 | 110  | 5  | 5  | 65 | 230 | 27 | 41 | 52 |
| 160    | 33   | 40         | 27.5 | M16 | 140  | 6  | 8  | 80 | 266 | 36 | 55 | 60 |
| 200    | 35   | 40         | 27   | M16 | 175  | 6  | 8  | 95 | 281 | 36 | 55 | 70 |

Type: ...P

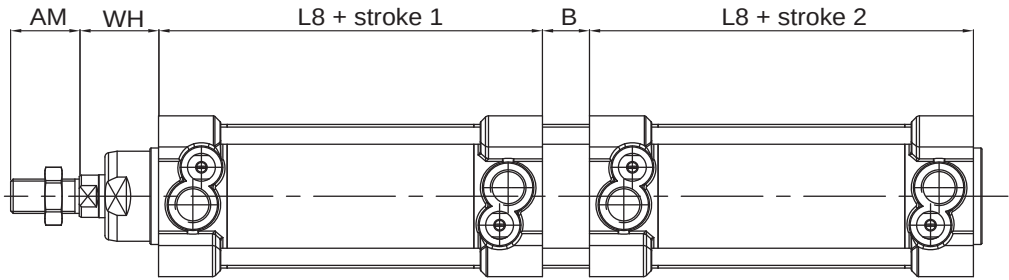


Type: ...F

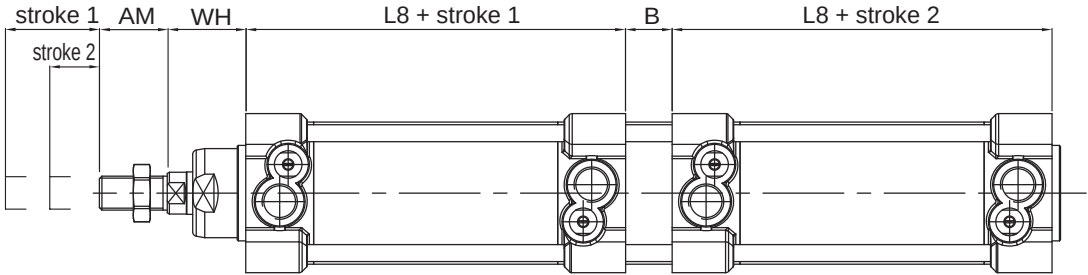


| Ø<br>mm | AF | KF  | T4  | WF | GF | ZJ  | ZM  |
|---------|----|-----|-----|----|----|-----|-----|
| 32      | 12 | M6  | 2,6 | 26 | 8  | 120 | 146 |
| 40      | 12 | M8  | 3,3 | 30 | 10 | 135 | 165 |
| 50      | 16 | M10 | 4,7 | 37 | 12 | 143 | 180 |
| 63      | 16 | M10 | 4,7 | 37 | 12 | 158 | 195 |
| 80      | 20 | M12 | 6,1 | 46 | 14 | 174 | 220 |
| 100     | 20 | M12 | 6,1 | 51 | 14 | 189 | 240 |
| 125     | 32 | M16 | 8   | 65 | 18 | 225 | 290 |
| 160     | 36 | M20 | 10  | 80 | 22 | 260 | 340 |
| 200     | 36 | M20 | 10  | 95 | 22 | 275 | 370 |

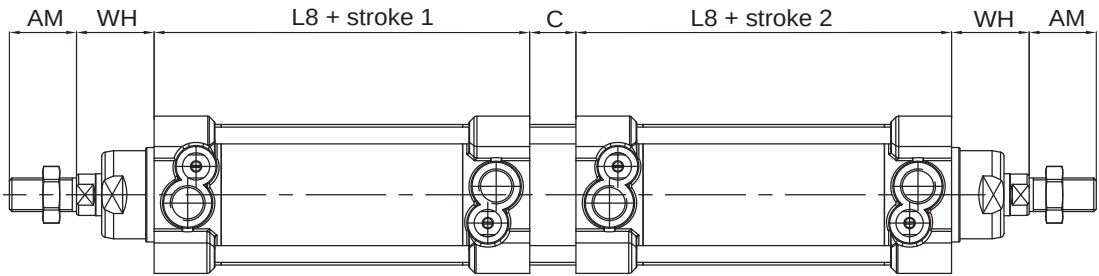
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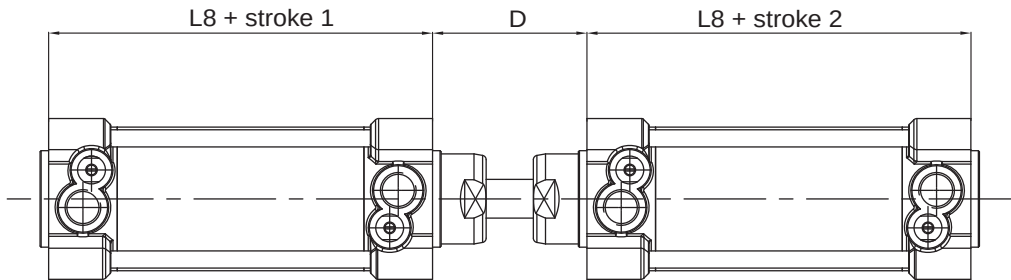
Type: ...TA2



Type: ...TA3

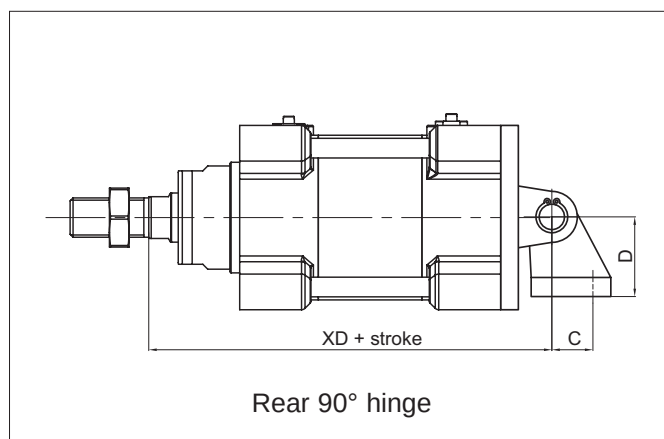
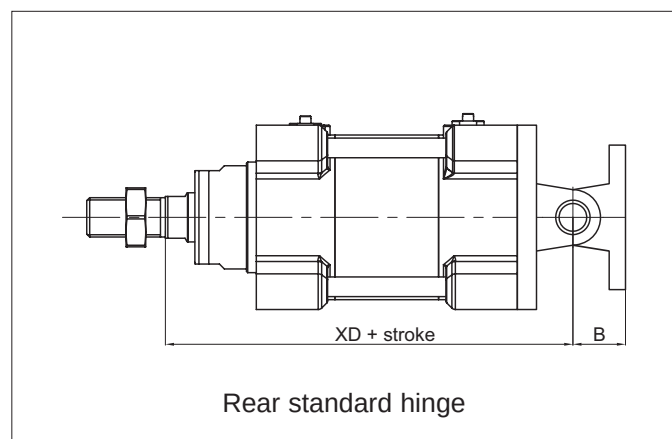
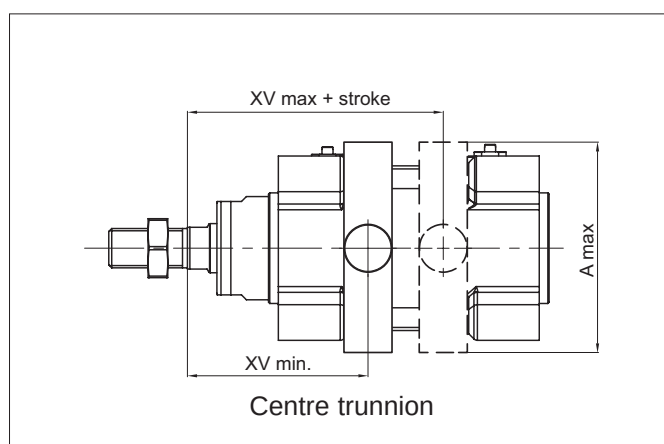
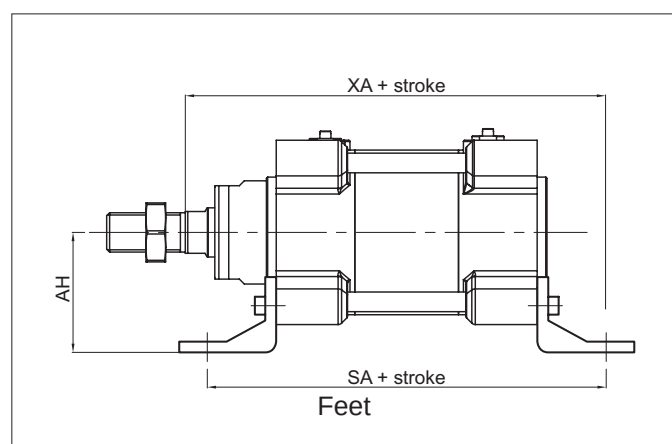
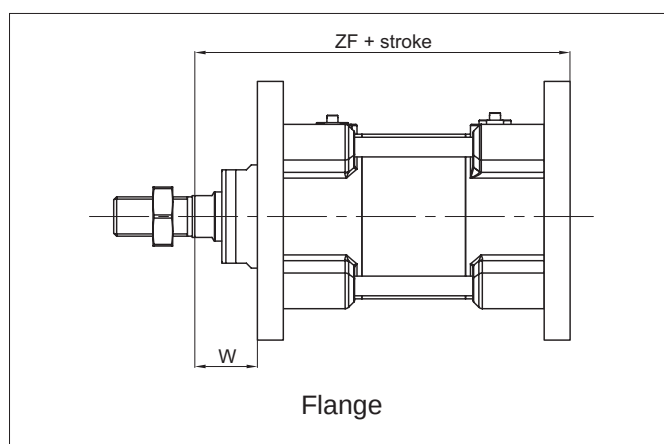
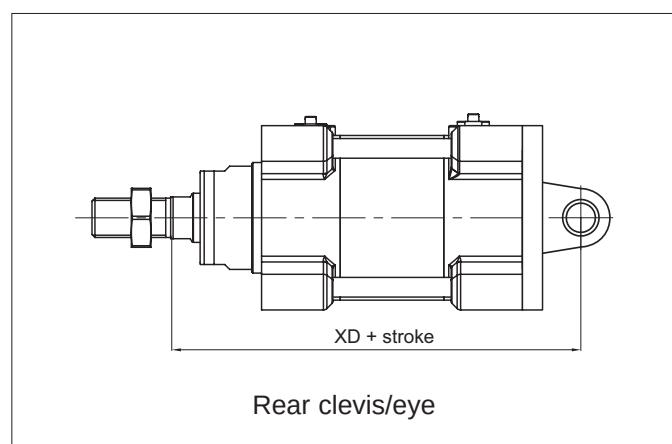


Type: ...TA4



| Ø mm | AM | B   | C  | D   | L8  | WH |
|------|----|-----|----|-----|-----|----|
| 32   | 22 | 40  | 12 | 48  | 94  | 26 |
| 40   | 24 | 44  | 12 | 54  | 105 | 30 |
| 50   | 32 | 52  | 16 | 69  | 106 | 37 |
| 63   | 32 | 50  | 16 | 69  | 121 | 37 |
| 80   | 40 | 64  | 20 | 86  | 128 | 46 |
| 100  | 40 | 76  | 20 | 91  | 138 | 51 |
| 125  | 54 | 80  | 35 | 120 | 160 | 65 |
| 160  | 72 | 100 | 50 | 152 | 180 | 80 |
| 200  | 72 | 130 | 50 | 167 | 180 | 95 |





For dimensions and codes of the accessories: see page 5.40.1

| Ø<br>mm | A<br>max | AH  | B  | C  | D  | SA  | W  | XA    | XD  | XV<br>min | XV<br>max | ZF  |
|---------|----------|-----|----|----|----|-----|----|-------|-----|-----------|-----------|-----|
| 32      | 70       | 32  | 22 | 21 | 32 | 142 | 16 | 144   | 142 | 60        | 86        | 130 |
| 40      | 78       | 36  | 25 | 24 | 36 | 161 | 20 | 163   | 160 | 69        | 96        | 145 |
| 50      | 91       | 45  | 27 | 33 | 45 | 170 | 25 | 175   | 170 | 78        | 102       | 155 |
| 63      | 94       | 50  | 32 | 37 | 50 | 185 | 25 | 190   | 190 | 82        | 113       | 170 |
| 80      | 130      | 63  | 36 | 47 | 63 | 210 | 30 | 215   | 210 | 97        | 123       | 190 |
| 100     | 145      | 71  | 41 | 55 | 71 | 220 | 35 | 230   | 230 | 107       | 133       | 205 |
| 125     | 170      | 90  | 50 | 70 | 90 | 250 | 45 | 270   | 275 | 126,5     | 163,5     | 245 |
| 160     | 190      | 115 | 55 | /  | /  | 300 | 55 | 305   | 315 | 150       | 190       | 285 |
| 200     | 240      | 135 | 60 | /  | /  | 320 | 70 | 322,5 | 335 | 165       | 205       | 300 |

# Stainless Steel Round Cylinders

Bores from 32 to 63 mm

Double acting



| Standard executions                                                           |        |       |
|-------------------------------------------------------------------------------|--------|-------|
| Version                                                                       | Symbol | Type  |
| Front threaded end cap mounting.<br>Magnetic, adjustable cushioning           |        | RXDVA |
| Front and rear threaded end caps mounting.<br>Magnetic, adjustable cushioning |        | RXDVD |
| Four threaded holes on rear cap.<br>Magnetic, adjustable cushioning           |        | RXDFP |
| Male hinge fixing (ISO MP4)<br>Magnetic, adjustable cushioning                |        | RXDCM |
| Male hinge with articulated head (ISO MP6)<br>Magnetic, adjustable cushioning |        | RXDCS |
| Narrow female hinge (ISO AB6)<br>Magnetic, adjustable cushioning              |        | RXDCF |
| Hinge on front end cap.<br>Magnetic, adjustable cushioning                    |        | RXDBA |
| Hinge on rear end cap.<br>Magnetic, adjustable cushioning                     |        | RXDBP |



II 2Gc IIC T5  
II 2Dc T100°C

On request, they can be supplied according to 2014/34/EU - ATEX



New series of stainless steel round cylinder with bores from 32 to 63mm., characterized by an essential design specifically developed to prevent the settling of impurities.

Cylinder body is smooth surface free of chamfers or cavities where dirt can settle.

This series is fully in Stainless Steel AISI 316L.

These features make RXD cylinders specifically suitable for Food&Beverage, Chemical, Pharmaceutical and Medical industries and for all those applications where maximum hygiene and cleaning are required, even in corrosive environments.

RXD Series are available in several configurations bespoke solutions are also possible.

For the magnetic reed switches type ASV see from page 1.110.1

For mounting accessories

see from page 5.35.1

For rod accessories

see from page 5.20.1



Lubrication with synthetic grease long lasting for applications with low start up, granting low friction and a permanent lubrication film.

Fully composed by non-toxic elements conforming to directive FDA section 21 CFR 178 about accidental contact with food ( registered NSF H1 ).

| Options                                                                                                                      | Suffix |
|------------------------------------------------------------------------------------------------------------------------------|--------|
| Through rod                                                                                                                  | P      |
| High temperature seals FKM (-20°C ÷ +150°C)                                                                                  | V      |
| Scrape ring only in FKM (-20°C ÷ +80°C)                                                                                      | V1     |
| Low temperature seals EPDM (-40°C ÷ +80°C)                                                                                   | BT     |
| Extended rod (indicate the requested WH dimension in mm. E.g.: WH-100)                                                       | WH-    |
| Without adjustable cushionings                                                                                               | D      |
| Adjustable rear cushioning only                                                                                              | D1     |
| Adjustable front cushioning only                                                                                             | D2     |
| Special male thread (indicate the requested thread. E.g. : R-M 10x1,5).                                                      | R-M    |
| The dimension AM of the special thread will be the same as the standard. The cylinder will be supplied without rod nut.      |        |
| With bellows for protection of the rod (in this case the dimension WH will be extended according the stroke of the cylinder) | Z      |
| Nitrile rubber NBR seals                                                                                                     | H      |
| Piston rod scraping ring in nitrile rubber NBR                                                                               | H1     |
| Special on request                                                                                                           | /S     |

The options can be combined (when this is possible).

The suffix of the options are to be added to the model number of the standard product, as shown in the following table.

How to order: 63 / 100 RXDVAP

|      |   |        |       |        |
|------|---|--------|-------|--------|
| 63   | / | 100    | RXDVA | P      |
| Bore | / | Stroke | Type  | Option |

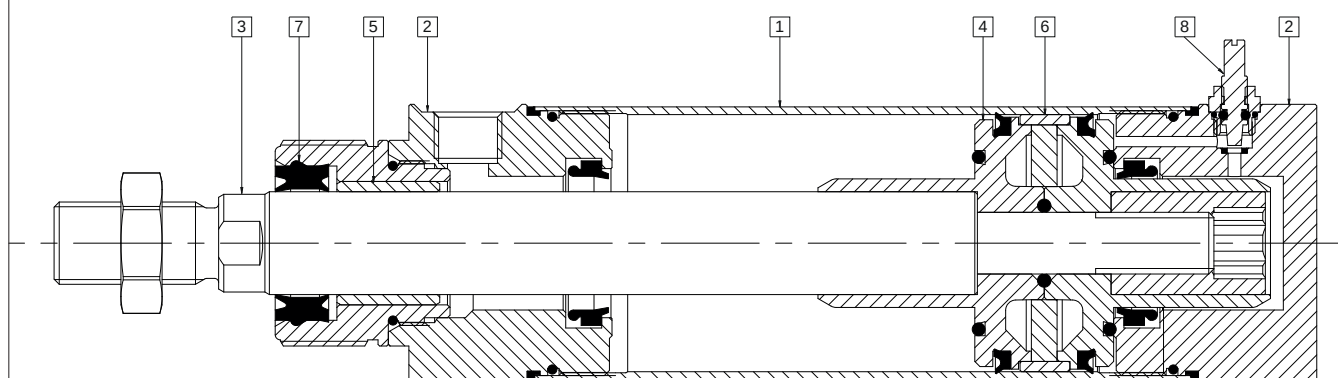
# Stainless Steel Round Cylinders

Bores from 32 to 63 mm

Technical data



Type: **RXDVA**



## Materials (standard types)

|             |                        |                                   |
|-------------|------------------------|-----------------------------------|
| 1           | Tube and tie-rods      | Stainless steel AISI 316L         |
| 2           | Heads                  | Stainless steel AISI 316L         |
| 3           | Rod                    | Stainless steel AISI 316L, lapped |
| 4           | Piston                 | Die-cast aluminium                |
| 5           | Bushing                | Self-lubricating sintered bronze  |
| 6           | Guide ring             | Natural Delrin                    |
| 7           | Rod seals              | Special polyurethane              |
| 8           | Group cushioning screw | Stainless steel AISI 316L         |
| Other seals |                        | Nitrile rubber NBR/polyurethane   |

## Technical data

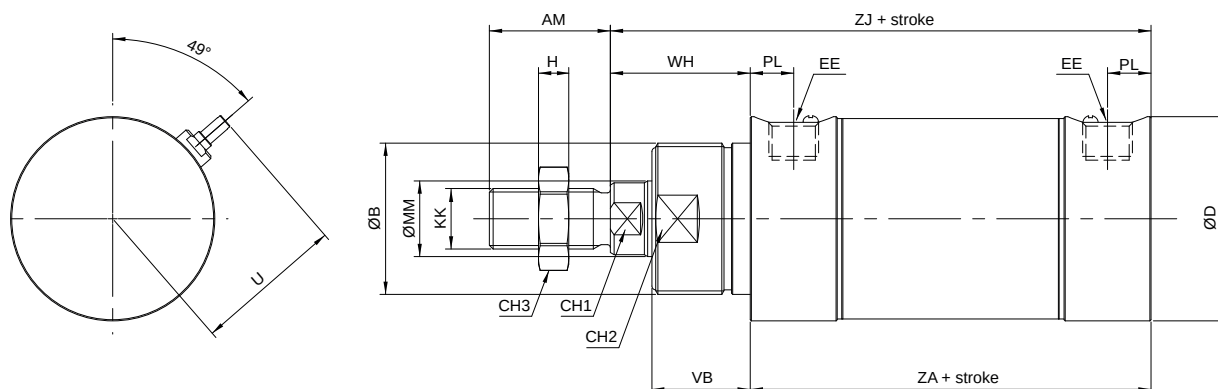
|                   |                                                                                                                                                     |            |           |      |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|------|
| Bore (mm)         | 32                                                                                                                                                  | 40         | 50        | 63   |
| Fluid             | Compressed filtered air with or without lubrication. Lubrication, if started, must be continued.                                                    |            |           |      |
| Pressure          | 0,5 ÷ 10 bar                                                                                                                                        |            |           |      |
| Temperature range | Standard: -20 °C ÷ +80 °C<br>High temperature (V): -20°C ÷ +150°C<br>Scrape ring only in FKM (-20°C ÷ +80°C)<br>Low temperature (BT): -40°C ÷ +80°C |            |           |      |
| Stroke            | from 10 mm to 1000 mm                                                                                                                               |            |           |      |
| Cushion lenght    | 20                                                                                                                                                  | 22         | 25        | 25   |
| Ports             | 1/8"                                                                                                                                                | 1/4"       |           | 3/8" |
| Rod thread        | M10 x 1,25                                                                                                                                          | M12 x 1,25 | M16 x 1,5 |      |

# Stainless Steel Round Cylinders

Bores from 32 to 63 mm *Standard dimensions*

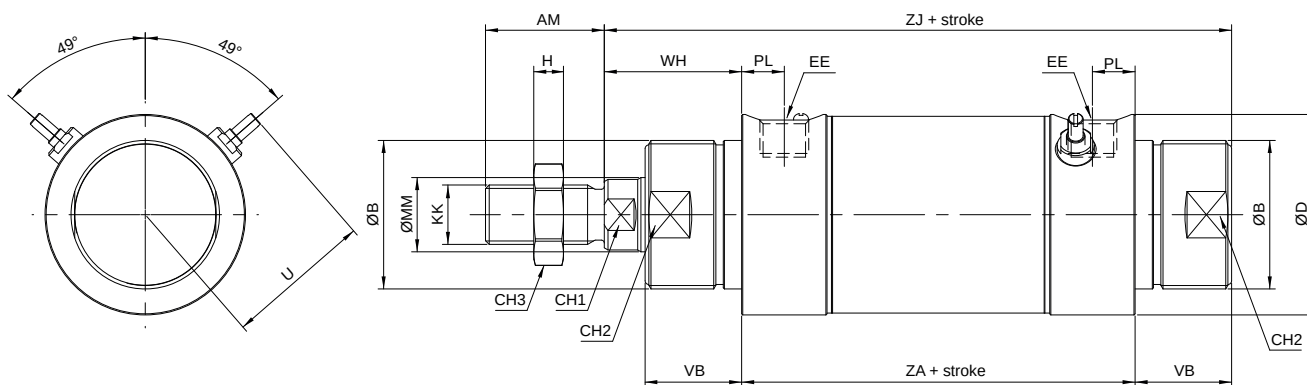


Type: **RXDVA**



| Ø<br>(mm) | AM | ØB      | ØD | EE   | KK       | ØMM<br>f7 | PL   | VB | U    | WH | ZA<br>+1<br>0 | ZJ<br>+1<br>0 | CH1 | CH2 | CH3 | H |
|-----------|----|---------|----|------|----------|-----------|------|----|------|----|---------------|---------------|-----|-----|-----|---|
| 32        | 22 | M30x1,5 | 36 | G1/8 | M10x1,25 | 12        | 10,5 | 20 | 26,5 | 26 | 94            | 120           | 10  | 29  | 17  | 5 |
| 40        | 24 | M38x1,5 | 45 | G1/4 | M12x1,25 | 16        | 12   | 22 | 31   | 30 | 105           | 135           | 13  | 36  | 19  | 6 |
| 50        | 32 | M45x1,5 | 54 | G1/4 | M16x1,5  | 20        | 11,5 | 26 | 39,5 | 37 | 106           | 143           | 17  | 42  | 24  | 8 |
| 63        | 32 | M45x1,5 | 68 | G3/8 | M16x1,5  | 20        | 14,5 | 25 | 38,5 | 37 | 121           | 158           | 17  | 42  | 24  | 8 |

Type: **RXDVD**



| Ø<br>(mm) | AM | ØB      | ØD | EE   | KK       | ØMM<br>f7 | PL   | VB | U    | WH | ZA<br>+1<br>0 | ZJ<br>+1<br>0 | CH1 | CH2 | CH3 | H |
|-----------|----|---------|----|------|----------|-----------|------|----|------|----|---------------|---------------|-----|-----|-----|---|
| 32        | 22 | M30x1,5 | 36 | G1/8 | M10x1,25 | 12        | 10,5 | 20 | 26,5 | 26 | 94            | 140           | 10  | 29  | 17  | 5 |
| 40        | 24 | M38x1,5 | 45 | G1/4 | M12x1,25 | 16        | 12   | 22 | 31   | 30 | 105           | 157           | 13  | 36  | 19  | 6 |
| 50        | 32 | M45x1,5 | 54 | G1/4 | M16x1,5  | 20        | 11,5 | 26 | 39,5 | 37 | 106           | 169           | 17  | 42  | 24  | 8 |
| 63        | 32 | M45x1,5 | 68 | G3/8 | M16x1,5  | 20        | 14,5 | 25 | 38,5 | 37 | 121           | 183           | 17  | 42  | 24  | 8 |

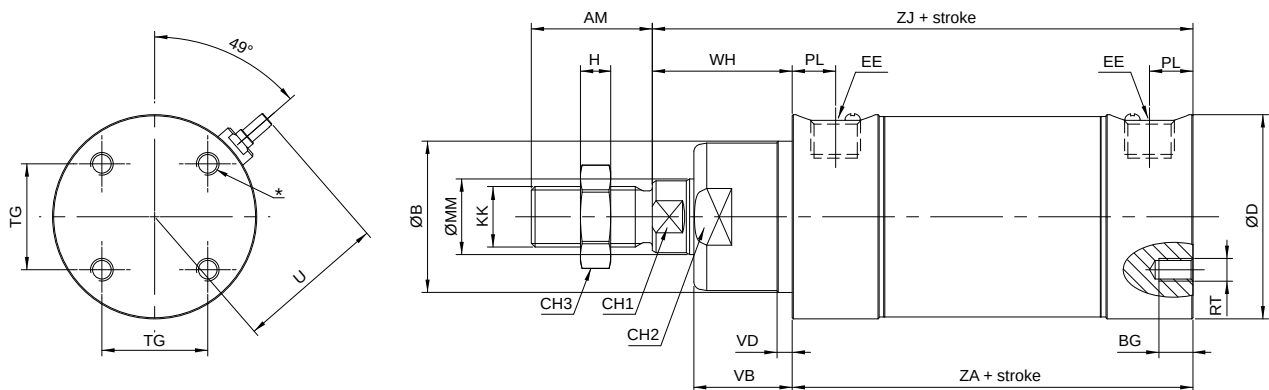
# Stainless Steel Round Cylinders

## Bores from 32 to 63 mm

### Standard dimensions



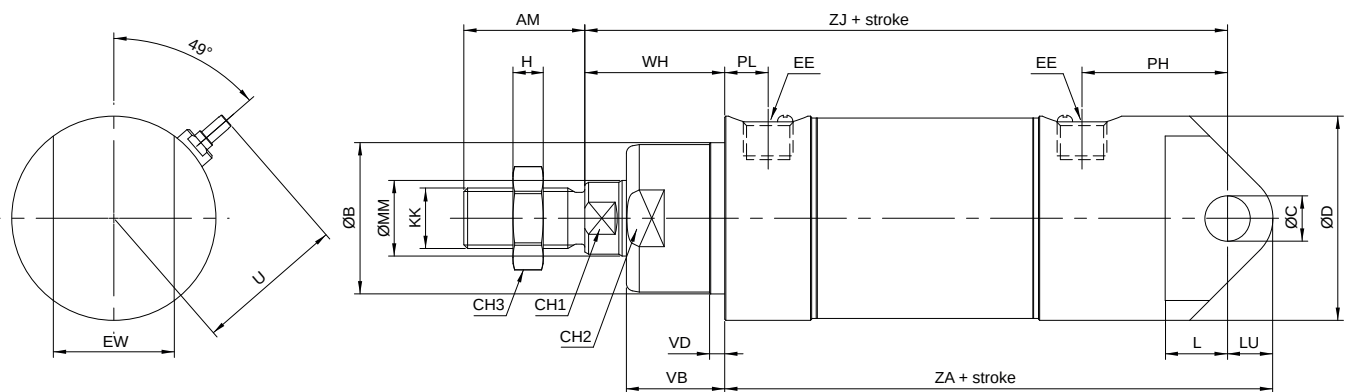
Type: **RXDFP**



\*For bore  $\text{Ø } 63$  thread absent

| $\text{Ø}$<br>(mm) | AM | $\text{ØB}$<br>d11 | BG | $\text{ØD}$ | EE   | KK       | $\text{ØMM}$<br>f7 | PL   | RT | TG | VB | VD | U    | WH | ZA<br>+1<br>0 | ZJ<br>+1<br>0 | CH1 | CH2 | CH3 | H |
|--------------------|----|--------------------|----|-------------|------|----------|--------------------|------|----|----|----|----|------|----|---------------|---------------|-----|-----|-----|---|
| 32                 | 22 | 30                 | 6  | 36          | G1/8 | M10x1,25 | 12                 | 10,5 | M4 | 19 | 20 | 4  | 26,5 | 26 | 94            | 120           | 10  | 29  | 17  | 5 |
| 40                 | 24 | 35                 | 8  | 45          | G1/4 | M12x1,25 | 16                 | 12   | M5 | 24 | 22 | 4  | 31   | 30 | 105           | 135           | 13  | 33  | 19  | 6 |
| 50                 | 32 | 40                 | 9  | 54          | G1/4 | M16x1,5  | 20                 | 11,5 | M6 | 28 | 26 | 4  | 39,5 | 37 | 106           | 143           | 17  | 38  | 24  | 8 |
| 63                 | 32 | 45                 | 12 | 68          | G3/8 | M16x1,5  | 20                 | 14,5 | M8 | 35 | 25 | 4  | 38,5 | 37 | 121           | 158           | 17  | 42  | 24  | 8 |

Type: **RXDCM**



| $\text{Ø}$<br>(mm) | AM | $\text{ØB}$<br>d11 | $\text{ØC}$<br>H8 | $\text{ØD}$ | EE   | EW | KK       | $\text{ØMM}$<br>f7 | L    | LU | PH   | PL   | VB | VD | U    | WH | ZA<br>+1<br>0 | ZJ<br>+1<br>0 | CH1 | CH2 | CH3 | H |
|--------------------|----|--------------------|-------------------|-------------|------|----|----------|--------------------|------|----|------|------|----|----|------|----|---------------|---------------|-----|-----|-----|---|
| 32                 | 22 | 30                 | 10                | 36          | G1/8 | 26 | M10x1,25 | 12                 | 13   | 9  | 32,5 | 10,5 | 20 | 4  | 26,5 | 26 | 125           | 142           | 10  | 29  | 17  | 5 |
| 40                 | 24 | 35                 | 12                | 45          | G1/4 | 28 | M12x1,25 | 16                 | 16   | 10 | 37   | 12   | 22 | 4  | 31   | 30 | 140           | 160           | 13  | 33  | 19  | 6 |
| 50                 | 32 | 40                 | 12                | 54          | G1/4 | 32 | M16x1,5  | 20                 | 16,5 | 12 | 37   | 11,5 | 26 | 4  | 39,5 | 37 | 145           | 170           | 17  | 38  | 24  | 8 |
| 63                 | 32 | 45                 | 16                | 68          | G3/8 | 40 | M16x1,5  | 20                 | 21   | 12 | 46   | 14,5 | 25 | 4  | 38,5 | 37 | 165           | 190           | 17  | 42  | 24  | 8 |

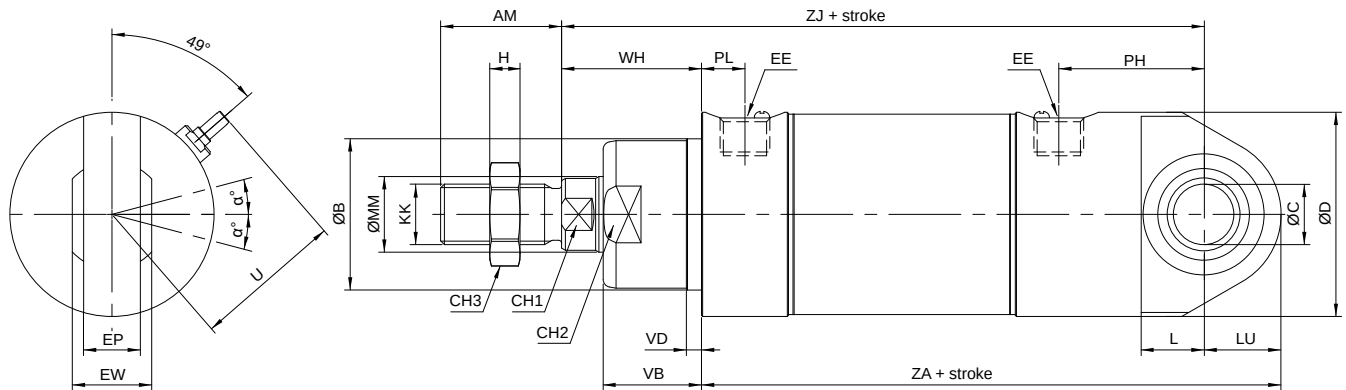
# Stainless Steel Round Cylinders

## Bores from 32 to 63 mm

### Standard dimensions

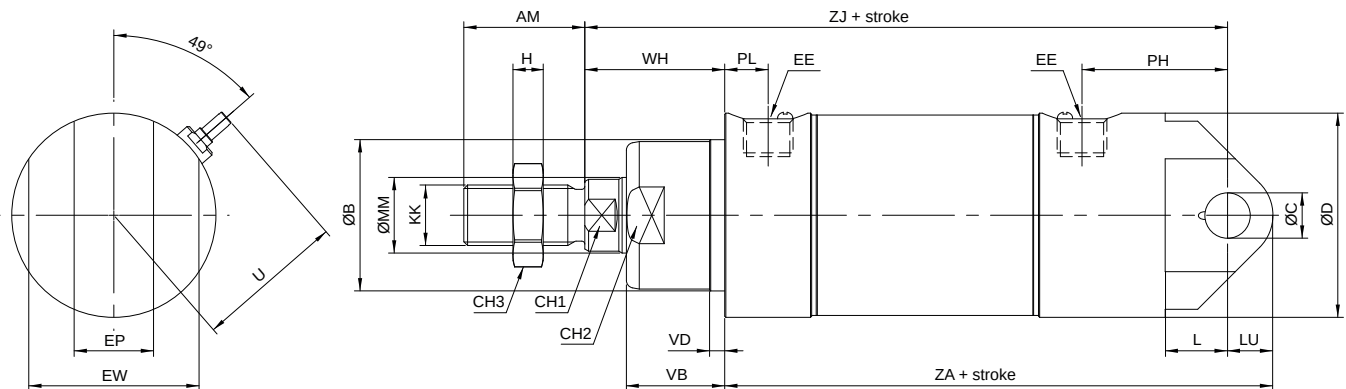


Type: **RXDCS**



| $\emptyset$<br>(mm) | AM | $\emptyset B$<br>d11 | $\emptyset C$<br>H7 | $\emptyset D$ | EE   | EP   | EW | KK       | $\emptyset MM$<br>f7 | L    | LU   | PH   | PL   | VB | VD | U    | WH | ZA<br>+1<br>0 | ZJ<br>+1<br>0 | CH1 | CH2 | CH3 | H | $\alpha^\circ$ |
|---------------------|----|----------------------|---------------------|---------------|------|------|----|----------|----------------------|------|------|------|------|----|----|------|----|---------------|---------------|-----|-----|-----|---|----------------|
| 32                  | 22 | 30                   | 10                  | 36            | G1/8 | 10,5 | 14 | M10x1,25 | 12                   | 13   | 15   | 32,5 | 10,5 | 20 | 4  | 26,5 | 26 | 131           | 142           | 10  | 29  | 17  | 5 | 13             |
| 40                  | 24 | 35                   | 12                  | 45            | G1/4 | 12   | 16 | M12x1,25 | 16                   | 16   | 19   | 37   | 12   | 22 | 4  | 31   | 30 | 149           | 160           | 13  | 33  | 19  | 6 | 13             |
| 50                  | 32 | 40                   | 16                  | 54            | G1/4 | 15   | 21 | M16x1,5  | 20                   | 16,5 | 20,5 | 38,5 | 11,5 | 26 | 4  | 39,5 | 37 | 153,5         | 170           | 17  | 38  | 24  | 8 | 15             |
| 63                  | 32 | 45                   | 16                  | 68            | G3/8 | 15   | 21 | M16x1,5  | 20                   | 21   | 24   | 46,5 | 14,5 | 25 | 4  | 38,5 | 37 | 177           | 190           | 17  | 42  | 24  | 8 | 15             |

Type: **RXDCF**



| $\emptyset$<br>(mm) | AM | $\emptyset B$<br>d11 | $\emptyset C$<br>H8 | $\emptyset D$ | EE   | EP | EW | KK       | $\emptyset MM$<br>f7 | L  | LU | PH   | PL   | VB | VD | U    | WH | ZA<br>+1<br>0 | ZJ<br>+1<br>0 | CH1 | CH2 | CH3 | H |
|---------------------|----|----------------------|---------------------|---------------|------|----|----|----------|----------------------|----|----|------|------|----|----|------|----|---------------|---------------|-----|-----|-----|---|
| 32                  | 22 | 30                   | 10                  | 36            | G1/8 | 14 | 34 | M10x1,25 | 12                   | 16 | 9  | 32,5 | 10,5 | 20 | 4  | 26,5 | 26 | 125           | 142           | 10  | 29  | 17  | 5 |
| 40                  | 24 | 35                   | 12                  | 45            | G1/4 | 16 | 40 | M12x1,25 | 16                   | 19 | 10 | 37   | 12   | 22 | 4  | 31   | 30 | 140           | 160           | 13  | 33  | 19  | 6 |
| 50                  | 32 | 40                   | 16                  | 54            | G1/4 | 21 | 45 | M16x1,5  | 20                   | 21 | 12 | 37   | 11,5 | 26 | 4  | 39,5 | 37 | 145           | 170           | 17  | 38  | 24  | 8 |
| 63                  | 32 | 45                   | 16                  | 68            | G3/8 | 21 | 51 | M16x1,5  | 20                   | 24 | 12 | 46   | 14,5 | 25 | 4  | 38,5 | 37 | 165           | 190           | 17  | 42  | 24  | 8 |

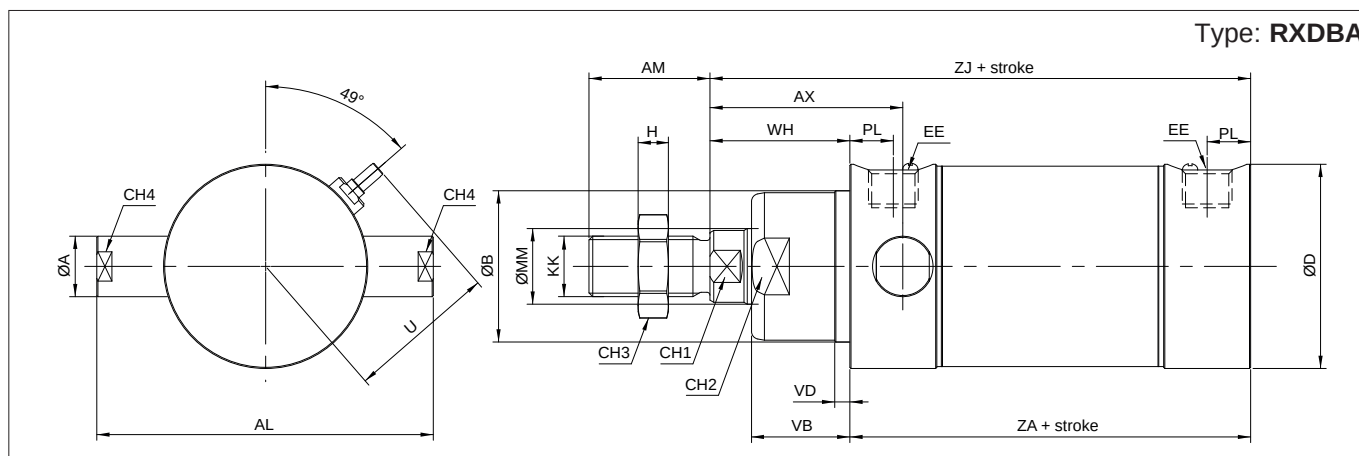
# Stainless Steel Round Cylinders

## Bores from 32 to 63 mm

### Standard dimensions

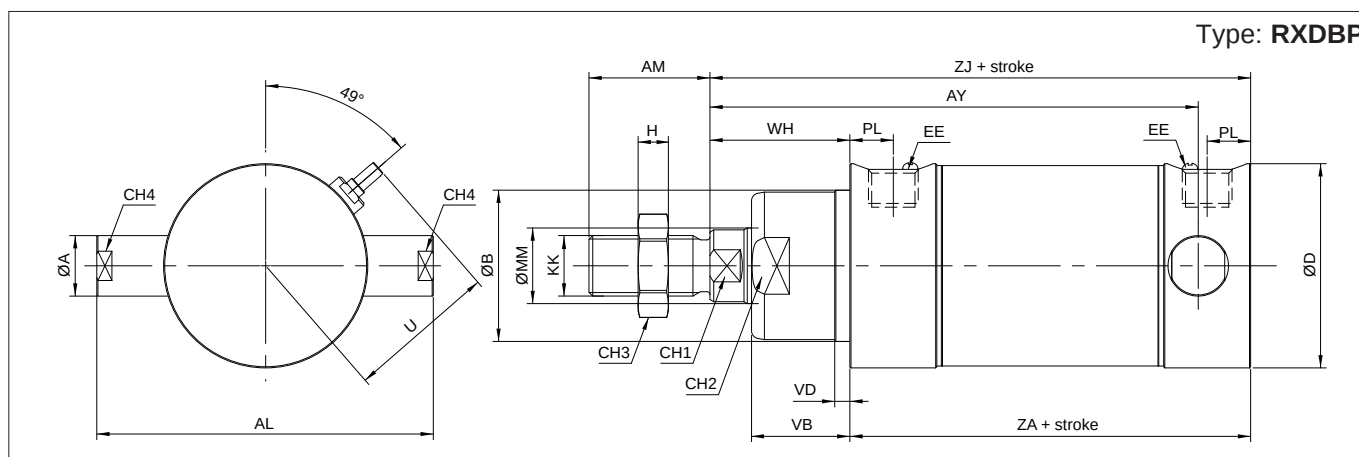


Type: **RXDBA**



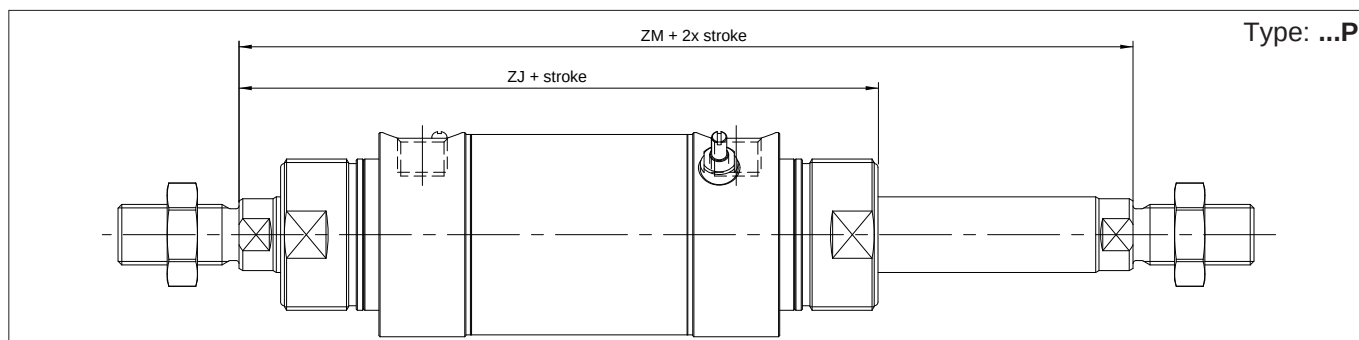
| Ø (mm) | ØA f7 | AL  | AX | AM | ØB d11 | ØD | EE   | KK       | ØMM f7 | PL   | VB | VD | U    | WH | ZA +1<br>0 | ZJ +1<br>0 | CH1 | CH2 | CH3 | CH4 | H |
|--------|-------|-----|----|----|--------|----|------|----------|--------|------|----|----|------|----|------------|------------|-----|-----|-----|-----|---|
| 32     | 12    | 67  | 39 | 22 | 30     | 36 | G1/8 | M10x1,25 | 12     | 10,5 | 20 | 4  | 26,5 | 26 | 94         | 120        | 10  | 29  | 17  | 10  | 5 |
| 40     | 12    | 76  | 43 | 24 | 35     | 45 | G1/4 | M12x1,25 | 16     | 12   | 22 | 4  | 31   | 30 | 105        | 135        | 13  | 33  | 19  | 10  | 6 |
| 50     | 16    | 89  | 40 | 32 | 51     | 54 | G1/4 | M16x1,5  | 20     | 11,5 | 26 | 4  | 39,5 | 37 | 106        | 143        | 17  | 38  | 24  | 14  | 8 |
| 63     | 16    | 103 | 47 | 32 | 47     | 68 | G3/8 | M16x1,5  | 20     | 14,5 | 25 | 4  | 38,5 | 37 | 121        | 158        | 17  | 42  | 24  | 14  | 8 |

Type: **RXDBP**



| Ø (mm) | ØA f7 | AL  | AY  | AM | ØB d11 | ØD | EE   | KK       | ØMM f7 | PL   | VB | VD | U    | WH | ZA +1<br>0 | ZJ +1<br>0 | CH1 | CH2 | CH3 | CH4 | H |
|--------|-------|-----|-----|----|--------|----|------|----------|--------|------|----|----|------|----|------------|------------|-----|-----|-----|-----|---|
| 32     | 12    | 67  | 110 | 22 | 30     | 36 | G1/8 | M10x1,25 | 12     | 10,5 | 20 | 4  | 26,5 | 26 | 94         | 120        | 10  | 29  | 17  | 10  | 5 |
| 40     | 12    | 76  | 122 | 24 | 35     | 45 | G1/4 | M12x1,25 | 16     | 12   | 22 | 4  | 31   | 30 | 105        | 135        | 13  | 33  | 19  | 10  | 6 |
| 50     | 16    | 89  | 129 | 32 | 40     | 54 | G1/4 | M16x1,5  | 20     | 11,5 | 26 | 4  | 39,5 | 37 | 106        | 143        | 17  | 38  | 24  | 14  | 8 |
| 63     | 16    | 103 | 148 | 32 | 45     | 68 | G3/8 | M16x1,5  | 20     | 14,5 | 25 | 4  | 38,5 | 37 | 121        | 158        | 17  | 42  | 24  | 14  | 8 |

Type: **...P**



| Ø (mm) | ZM  | ZJ  |
|--------|-----|-----|
| 32     | 146 | 140 |
| 40     | 165 | 157 |
| 50     | 180 | 169 |
| 63     | 195 | 183 |

# Stainless Steel Round Cylinders

Bores from 32 to 63 mm

Double acting



| Standard executions                                                   |        |       |
|-----------------------------------------------------------------------|--------|-------|
| Version                                                               | Symbol | Type  |
| Double acting                                                         |        | RDX   |
| Double acting magnetic                                                |        | RDMX  |
| Double acting magnetic with cushionings<br>(only for bores 32 and 40) |        | RDMAX |



On request, they can be supplied according to 2014/34/EU - ATEX

| Options                                     | Suffix |
|---------------------------------------------|--------|
| Through rod                                 | P      |
| Seals FKM -20°C ÷ +150°C                    | V      |
| Low temperature seals -40°C ÷ +80°C         | BT     |
| Low friction                                | L      |
| High chemical resistant rod scraper (P5600) | C1     |
| Special versions on request                 | / S    |

The options can be combined (when this is possible)

| Technical data    |                                                                                                                                                |                    |                    |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|
| Fluid             | Compressed filtered air with or without lubrication. Lubrication, if started, must be continued.                                               |                    |                    |
| Pressure          | max 10 bar                                                                                                                                     |                    |                    |
| Temperature range | -30°C ÷ +80°C (standard)                                                                                                                       | -20°C ÷ +150°C (V) | -40°C ÷ +80°C (BT) |
| Materials         | Heads: Stainless Steel AISI 304<br>Tube: Stainless Steel AISI 304<br>Rod: Stainless Steel AISI 316<br>Piston: Aluminium<br>Seals: Polyurethane |                    |                    |

| Bore (mm) | Standard strokes (mm)                              | Max stroke (mm) |
|-----------|----------------------------------------------------|-----------------|
| 32        | 25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500 | 1000            |
| 40        |                                                    |                 |
| 50        |                                                    |                 |
| 63        |                                                    |                 |

See page 1.1.3 to calculate the double acting cylinder force.  
Seal kits not available for these cylinders.

*New*



Series of stainless steel cylinders not conforming to standards. The heads are connected with the body through rolling: this guarantees perfect tightening. Dumpers are in nitrile rubber to cushion the impact of the piston. RDMAX type are provided with adjustable cushionings at both ends (available only for bores 32 and 40 mm). The standard cylinders are provided with rod nut. One or more magnetic reed switches can be applied to the magnetic types.

For the magnetic reed switches type ASV see from page 1.110.1  
For mounting accessories see from page 5.35.1  
For rod accessories see from page 5.20.1

How to order: 40 / 50 RDMXP

|      |   |        |      |        |
|------|---|--------|------|--------|
| 40   | / | 50     | RDMX | P      |
| Bore | / | Stroke | Type | Option |



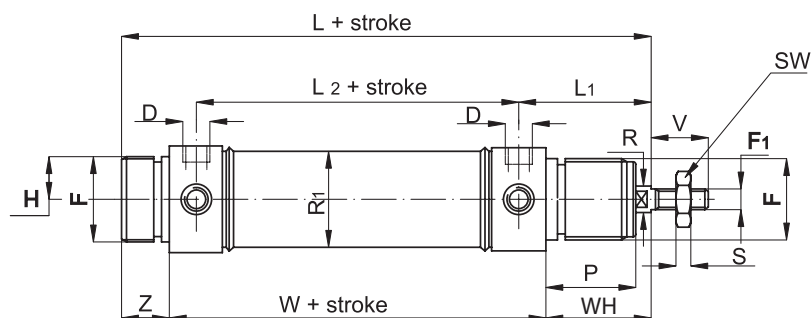
# Stainless Steel Round Cylinders

Bores from 32 to 63 mm

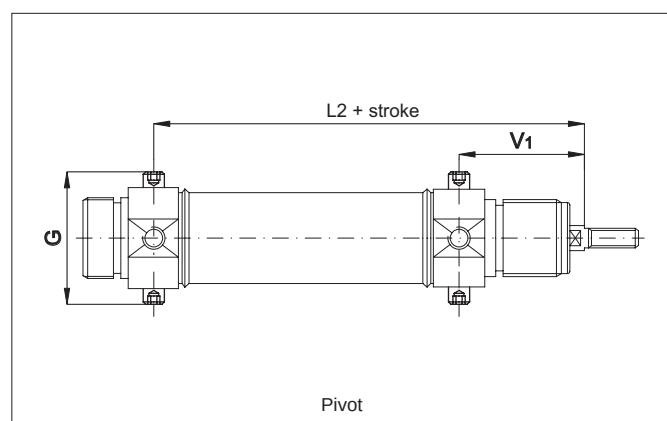
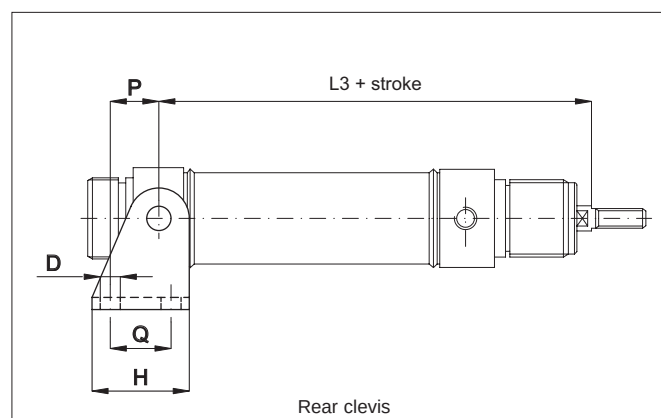
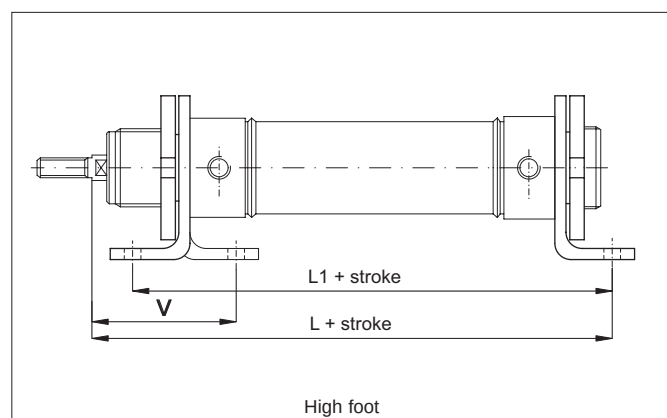
Standard dimensions and mountings



Type: **RDX-RDMX-RDMAX**



| Ø mm | V  | F       | P  | D    | F1       | R  | L <sub>2</sub> | Z  | WH | W   | L <sub>1</sub> | L   | R <sub>1</sub> | H    | S | SW |
|------|----|---------|----|------|----------|----|----------------|----|----|-----|----------------|-----|----------------|------|---|----|
| 32   | 20 | M30x1,5 | 30 | 1/8" | M10x1,5  | 12 | 78             | 14 | 38 | 96  | 47             | 148 | 33,6           | 17,5 | 6 | 17 |
| 40   | 24 | M38x1,5 | 35 | 1/4" | M12x1,75 | 16 | 89             | 16 | 45 | 113 | 57             | 174 | 41,6           | 21   | 7 | 19 |
| 50   | 32 | M45x1,5 | 38 | 1/4" | M16x2    | 20 | 96             | 18 | 50 | 120 | 62             | 188 | 52,4           | 26,5 | 8 | 24 |
| 63   | 32 | M45x1,5 | 38 | 3/8" | M16x2    | 20 | 98             | 18 | 50 | 124 | 63             | 192 | 65,4           | 32,5 | 8 | 24 |



| Ø mm | L   | L <sub>1</sub> | L <sub>2</sub> | L <sub>3</sub> | V  | V <sub>1</sub> | P  | H  | Q  | G  | D |
|------|-----|----------------|----------------|----------------|----|----------------|----|----|----|----|---|
| 32   | 148 | 124            | 125            | 125            | 48 | 47             | 20 | 40 | 24 | 51 | 7 |
| 40   | 153 | 153            | 146            | 146            | 60 | 57             | 27 | 50 | 30 | 61 | 9 |
| 50   | 160 | 160            | 158            | 158            | 64 | 62             | 30 | 54 | 34 | 75 | 9 |
| 63   | 164 | 164            | 161            | 161            | 65 | 63             | 34 | 65 | 35 | 92 | 9 |

# Stainless Steel Compact Cylinders ISO 21287

## Bores from 25 to 100 mm



### Standard executions

| Version                                   | Symbol | Type |
|-------------------------------------------|--------|------|
| Single acting magnetic with female thread |        | CIXS |
| Double acting magnetic with female thread |        | CIX  |
| Double acting magnetic anti-rotating      |        | CIXN |



**II 2Gc IIC T5**  
**II 2Dc T100°C**

On request, they can be supplied according to 2014/34/EU - **ATEX**



Lubrication with synthetic grease long lasting for applications with low start up, granting low friction and a permanent lubrication film. Fully composed by non-toxic elements conforming to directive FDA section 21 CFR 178 about accidental contact with food ( registered NSF H1 ).

Series of stainless steel compact cylinders conforming to ISO 21287 standards.

Round tube and external tie-rods are the features of this cylinder with clean design and attention to details.

A particular attention was put to the end caps where there are no cavities, thus eliminating contamination traps.

All series CIX is with elastic dampers on the piston

Only magnetic version available

One or more magnetic reed switches can be mounted.

For the magnetic reed switches type ASV see from page 1.110.1.

For mounting accessories see from page 5.40.1

For rod accessories see from page 5.20.1 and 5.25.1

| Options                                                               | Suffix |
|-----------------------------------------------------------------------|--------|
| Single acting, rear spring (page 5.16.4)                              | T      |
| Male thread on piston-rod (page 5.16.4)                               | M      |
| Through-rod (page 5.16.4)                                             | P      |
| Seals FKM -20°C ÷ +150°C                                              | V      |
| Scraper ring only FKM -20°C ÷ +80°C                                   | V1     |
| Low temperature seals -40°C ÷ +80°C                                   | BT     |
| Extended rod (indicate the requested WH dimension in mm. E.g.: WH-50) | WH-... |
| Special on request                                                    | /S     |

The options can be combined (when this is possible).

The suffix of the options are to be added to the model number of the standard product, as shown in the following table.

How to order: 63/100CIXMP

|      |   |        |      |        |        |
|------|---|--------|------|--------|--------|
| 63   | / | 100    | CIX  | M      | P      |
| Bore | / | Stroke | Type | Option | Option |

| Seals kits |                 |
|------------|-----------------|
| n. 1       | Rod seal        |
| n. 2       | Tube O-ring     |
| n. 1       | Piston lip-seal |

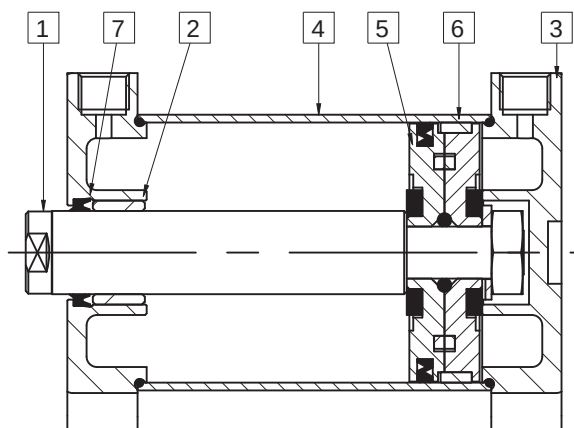
How to order: 32 / SG / CIXP

|      |   |          |   |      |        |
|------|---|----------|---|------|--------|
| 32   | / | SG       | / | CIX  | P      |
| Bore | / | Seal kit | / | Type | Option |

# Stainless Steel Compact Cylinders ISO 21287

## Bores from 25 to 100 mm

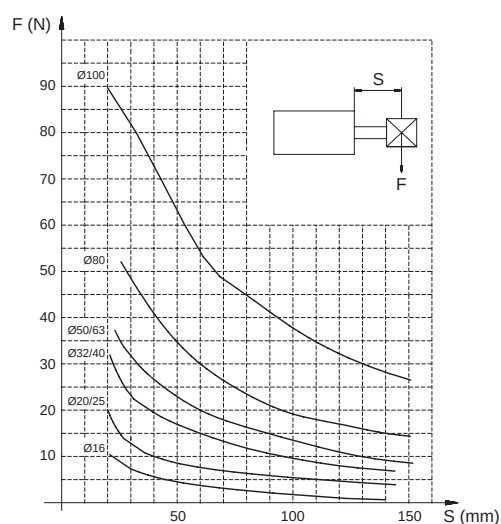
Technical data



### Materials (standard types)

|              |                                 |
|--------------|---------------------------------|
| 1 Rod        | Stainless steel AISI 316L       |
| 2 Bushing    | Sintered bronze self-lubricated |
| 3 Heads      | Stainless steel AISI 316L       |
| 4 Tube       | Stainless steel AISI 316L       |
| 5 Piston     | Aluminium                       |
| 6 Guide ring | PTFE                            |
| 7 Rod seals  | Polyurethane                    |
| Other seals  | Nitrilic rubber NBR             |

### Maximum radial load diagram



### Technical data

|                   |                                                                                                  |                    |                    |
|-------------------|--------------------------------------------------------------------------------------------------|--------------------|--------------------|
| Fluid             | Compressed filtered air with or without lubrication. Lubrication, if started, must be continued. |                    |                    |
| Pressure          | Single acting 2 ÷ 10 bar - Double acting 1 ÷ 10 bar                                              |                    |                    |
| Temperature range | -20°C ÷ +80°C (standard /V1)                                                                     | -20°C ÷ +150°C (V) | -40°C ÷ +80°C (BT) |

| Bore (mm) | Standard strokes CIXS |         | Standard strokes CIX                  |          | Standard strokes CIXN                 |          |
|-----------|-----------------------|---------|---------------------------------------|----------|---------------------------------------|----------|
| 25        | 5, 10, 15, 20, 25     | (5÷25)  | 5, 10, 15, 20, 25, 30, 40, 50, 60     | (5÷300)  | 5, 10, 15, 20, 25, 30, 40, 50, 60     | (5÷200)  |
| 32        | 5, 10, 15, 20, 25     | (5÷25)  | 5, 10, 15, 20, 25, 30, 40, 50, 60, 80 | (5÷400)  | 5, 10, 15, 20, 25, 30, 40, 50, 60, 80 | (5÷300)  |
| 40        | 5, 10, 15, 20, 25     | (5÷25)  | 5, 10, 15, 20, 25, 30, 40, 50, 60, 80 | (5÷400)  | 5, 10, 15, 20, 25, 30, 40, 50, 60, 80 | (5÷300)  |
| 50        | 5, 10, 15, 20, 25     | (5÷25)  | 5, 10, 15, 20, 25, 30, 40, 50, 60, 80 | (5÷400)  | 5, 10, 15, 20, 25, 30, 40, 50, 60, 80 | (5÷300)  |
| 63        | 5, 10, 15, 20, 25     | (5÷25)  | 5, 10, 15, 20, 25, 30, 40, 50, 60, 80 | (5÷400)  | 5, 10, 15, 20, 25, 30, 40, 50, 60, 80 | (5÷300)  |
| 80        | 15, 20, 25            | (15÷25) | 15, 20, 25, 30, 40, 50, 60, 80        | (15÷500) | 15, 20, 25, 30, 40, 50, 60, 80        | (15÷400) |
| 100       | 15, 20, 25            | (15÷25) | 15, 20, 25, 30, 40, 50, 60, 80, 100   | (15÷500) | 15, 20, 25, 30, 40, 50, 60, 80, 100   | (15÷400) |

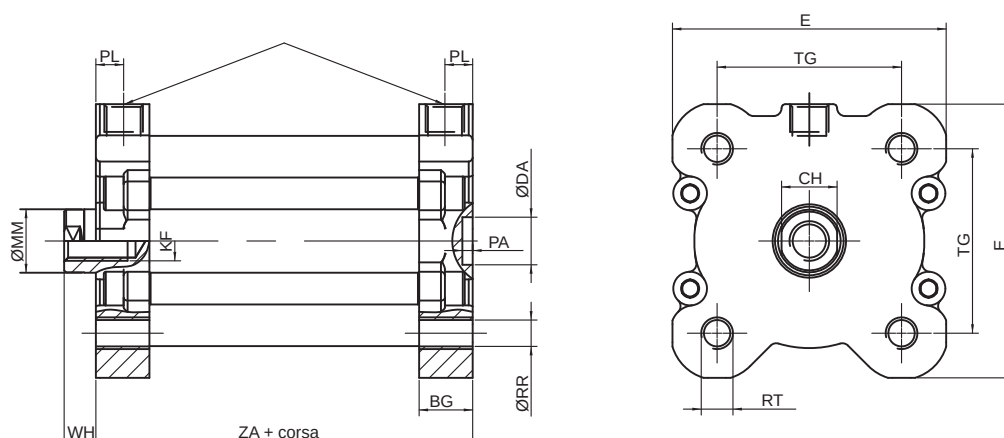
# Stainless Steel Compact Cylinders ISO 21287

## Bores from 25 to 100 mm

Standard dimensions

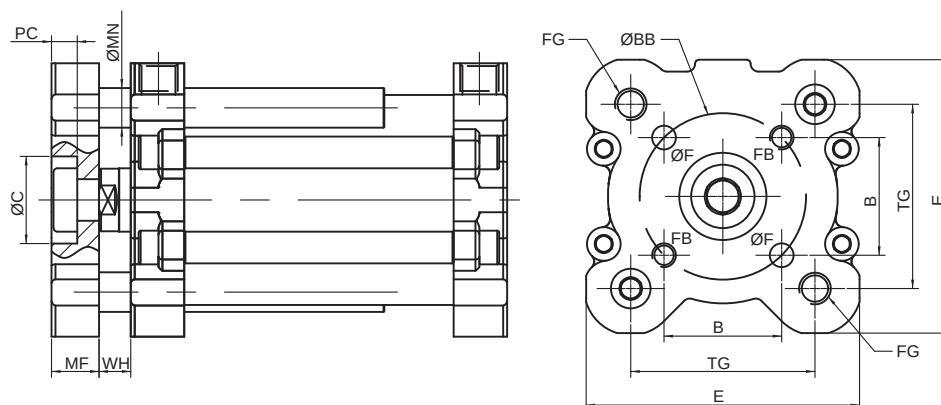


Type: CIX - CIXS



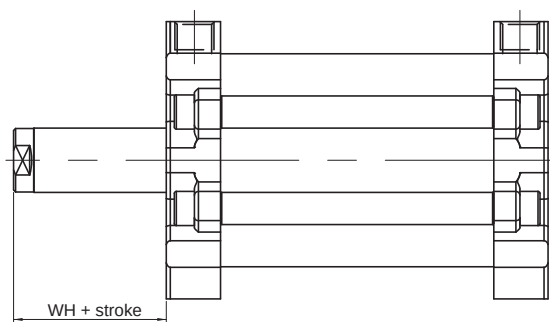
| Ø (mm) | Ø MM f7 | AF | WH | ZA | ZB | KF  | EE    | BG | RR  | TG   | E    | RT  | PL  | CH | Ø DA H9 | PA +0.1 |
|--------|---------|----|----|----|----|-----|-------|----|-----|------|------|-----|-----|----|---------|---------|
| 25     | 10      | 10 | 6  | 39 | 45 | M6  | M5    | 15 | 4,1 | 26   | 40   | M5  | 5   | 8  | 9       | 2,1     |
| 32     | 12      | -  | 7  | 44 | 51 | -   | G 1/8 | 16 | -   | 32,5 | 47,5 | M6  | 7   | 10 | 9       | 2,1     |
| 40     | 12      | 12 | 7  | 45 | 52 | M8  | G 1/8 | 16 | 5,1 | 38   | 55   | M6  | 7,5 | 10 | 9       | 2,1     |
| 50     | 16      | 16 | 8  | 45 | 53 | M10 | G 1/8 | 16 | 6,4 | 46,5 | 66   | M8  | 7,5 | 14 | 12      | 2,6     |
| 63     | 16      | 16 | 8  | 49 | 57 | M10 | G 1/8 | 16 | 6,4 | 56,5 | 78   | M8  | 7   | 14 | 12      | 2,6     |
| 80     | 20      | 20 | 10 | 54 | 64 | M12 | G 1/8 | 17 | 8,4 | 72   | 96   | M10 | 8   | 17 | 12      | 2,6     |
| 100    | 20      | 20 | 10 | 67 | 77 | M12 | G 1/8 | 17 | 8,4 | 89   | 116  | M10 | 8,5 | 17 | 12      | 2,6     |

Type: ...N



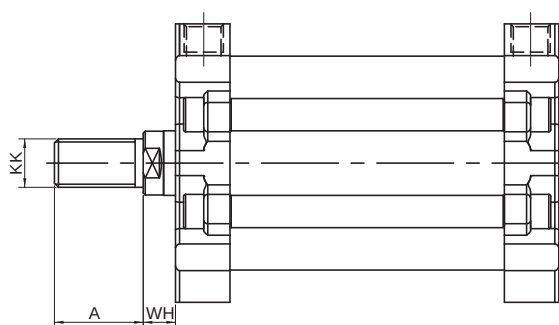
| Ø (mm) | WH | MF +0,1 | E    | TG   | B    | FG  | ØBB ±0,1 | ØF +0,1 | FB  | ØC H9 | PC  | MN f7 |
|--------|----|---------|------|------|------|-----|----------|---------|-----|-------|-----|-------|
| 25     | 6  | 8       | 40   | 26   | 15.6 | M5  | 22       | 5       | M5  | 14    | 4,5 | 6     |
| 32     | 7  | 10      | 47.5 | 32,5 | 19.8 | M6  | 28       | 5       | M5  | 17    | 5,5 | 8     |
| 40     | 7  | 10      | 55   | 38   | 23.3 | M6  | 33       | 5       | M5  | 17    | 5,5 | 8     |
| 50     | 8  | 12      | 66   | 46,5 | 29.7 | M8  | 42       | 6       | M6  | 22    | 6,5 | 10    |
| 63     | 8  | 12      | 78   | 56,5 | 35.4 | M8  | 50       | 6       | M6  | 22    | 6,5 | 10    |
| 80     | 10 | 14      | 96   | 72   | 46   | M10 | 65       | 8       | M8  | 24    | 7,5 | 10    |
| 100    | 10 | 14      | 116  | 89   | 56.6 | M10 | 80       | 10      | M10 | 24    | 7,5 | 12    |

Type: ...T

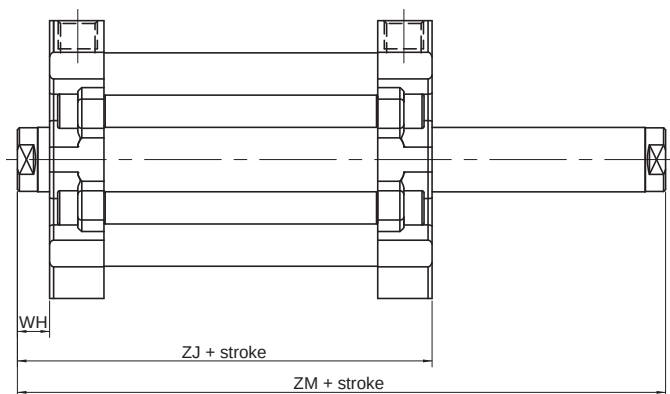


Available stroke: 1÷25

Type: ...M



Type: ...P



| Ø<br>(mm) | A  | KK       | WH | ZJ | ZM |
|-----------|----|----------|----|----|----|
| 25        | 16 | M8x1.25  | 6  | 45 | 51 |
| 32        | 19 | M10x1.25 | 7  | 51 | 58 |
| 40        | 19 | M10x1.25 | 7  | 52 | 59 |
| 50        | 22 | M12x1.25 | 8  | 53 | 61 |
| 63        | 22 | M12x1.25 | 8  | 57 | 65 |
| 80        | 28 | M16x1.5  | 10 | 64 | 74 |
| 100       | 28 | M16x1.5  | 10 | 77 | 87 |

# Mounting Accessories for Stainless Steel Cylinders

## Clevis ISO and DIN



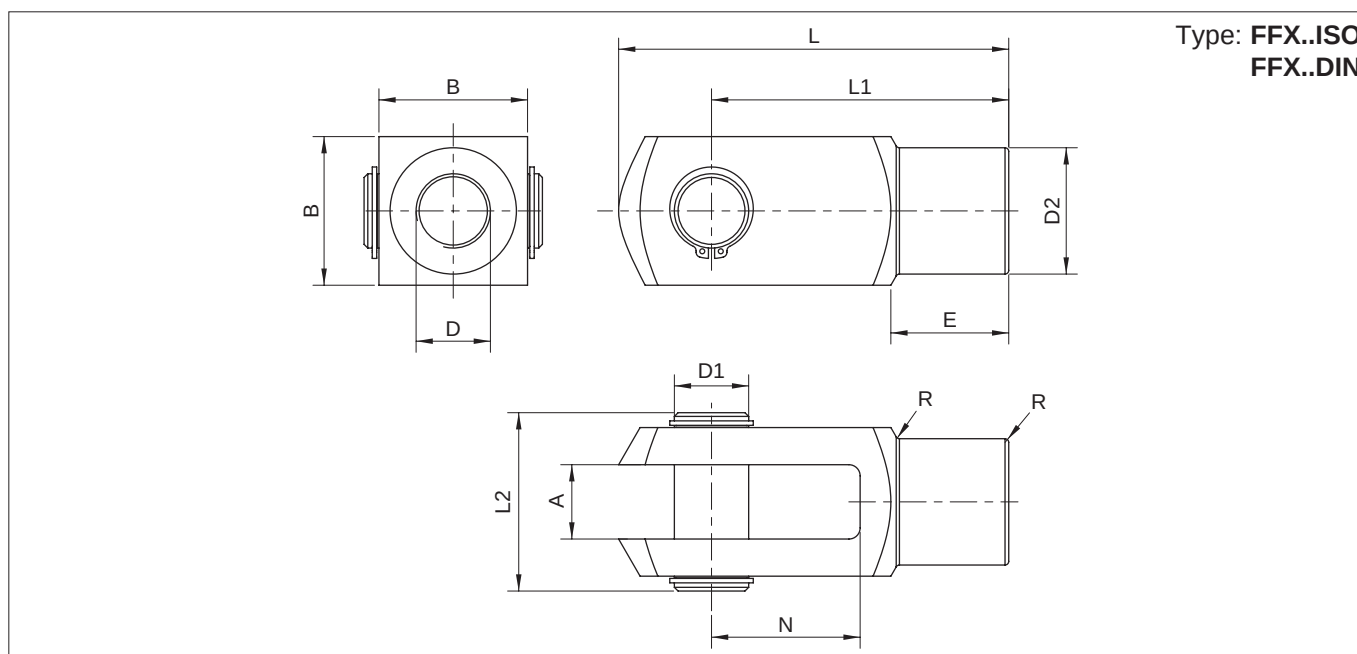
| Standard executions |        |          |
|---------------------|--------|----------|
| Version             | Symbol | Type     |
| ISO Female clevis   |        | FFX..ISO |
| DIN Female clevis   |        | FFX..DIN |



Clevis conforming to ISO and DIN standards.  
It's provided with a pin and 2 seegers.  
The clevis is mounted on the cylinder rod and allows a swinging movement.

| Options                    | Suffix |
|----------------------------|--------|
| Special version on request | / S    |

| Technical data |                |                          |
|----------------|----------------|--------------------------|
| Materials      | Body and clip: | Stainless steel AISI 316 |
|                | Seeger:        | Stainless steel AISI 316 |



For the accessories of bore 125-160-200 mm, apply for availability because they have to be produced on request only.

| Code   | Item         | For cylinder<br>ø mm | D        | A<br>B12 | B  | D1 | D2 | E   | L   | L1  | L2   | N  | R   | Weight<br>(g) |
|--------|--------------|----------------------|----------|----------|----|----|----|-----|-----|-----|------|----|-----|---------------|
| 041052 | FFX04ISO/DIN | 8-10                 | M4x0,7   | 4        | 8  | 4  | 8  | 6   | 21  | 16  | 11   | 8  | 0,5 | 7             |
| 041071 | FFX05DIN     | *                    | M5x0,8   | 6        | 10 | 5  | 9  | 7,5 | 26  | 20  | 13,5 | 10 | 0,5 | 12            |
| 041053 | FFX06ISO/DIN | 12-16                | M6x1     | 6        | 12 | 6  | 10 | 9   | 31  | 24  | 16   | 12 | 0,5 | 19            |
| 041054 | FFX08ISO     | 20                   | M8x1,25  | 8        | 16 | 8  | 14 | 12  | 42  | 32  | 22   | 16 | 0,5 | 47            |
| 041055 | FFX10ISO     | 25-32                | M10x1,25 | 10       | 20 | 10 | 18 | 15  | 52  | 40  | 25   | 20 | 0,5 | 89            |
| 041070 | FFX10DIN     | 32**                 | M10x1,5  | 10       | 20 | 10 | 18 | 15  | 52  | 40  | 25   | 20 | 0,5 | 89            |
| 041056 | FFX12ISO     | 40                   | M12x1,25 | 12       | 24 | 12 | 20 | 18  | 62  | 48  | 30   | 24 | 0,5 | 153           |
| 041216 | FFX12DIN     | 40**                 | M12x1,75 | 12       | 24 | 12 | 20 | 18  | 62  | 48  | 30   | 24 | 0,5 | 153           |
| 041057 | FFX16ISO     | 50-63                | M16x1,5  | 16       | 32 | 16 | 26 | 24  | 83  | 64  | 39   | 32 | 1   | 320           |
| 041078 | FFX16DIN     | 50-63**              | M16x2    | 16       | 32 | 16 | 26 | 24  | 83  | 64  | 39   | 32 | 1   | 320           |
| 041058 | FFX20ISO     | 80-100               | M20x1,5  | 20       | 40 | 20 | 34 | 30  | 105 | 80  | 48   | 40 | 1   | 680           |
| 041112 | FFX27ISO     | 125                  | M27x2    | 30       | 55 | 30 | 48 | 38  | 148 | 110 | -    | 54 | 1   | -             |
| 041113 | FFX36ISO     | 160-200              | M36x2    | 35       | 70 | 35 | 60 | 40  | 188 | 144 | -    | 72 | 1   | -             |

\* For cylinders not conforming to standard

\*\* For RDX, RDMX and RDMAX series cylinders

# Mounting Accessories for Stainless Steel Cylinders

## Bearings - Bearing heads DIN 648-K and ISO 8139



| Standard executions |        |         |
|---------------------|--------|---------|
| Version             | Symbol | Type    |
| With female thread  |        | RFX..SE |

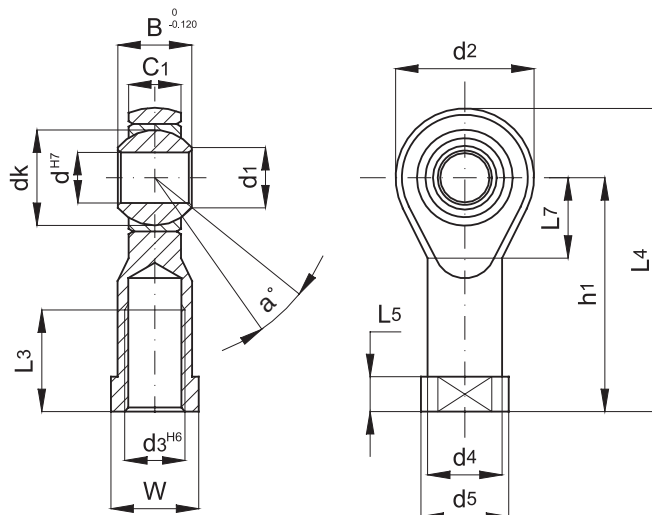


Self-lubricating bearing heads servicing-free and conforming to DIN 648-K and ISO 8139 standards.

The bearing head is mounted on the cylinder rod.

| Technical data    |                                                                                                                  |
|-------------------|------------------------------------------------------------------------------------------------------------------|
| Temperature range | -30 °C ÷ +150 °C                                                                                                 |
| Materials         | Body: Stainless Steel AISI 431<br>Sphere: Stainless Steel AISI 316<br>External ring: Stainless Steel AISI 316 TI |

Type: RFX..SE



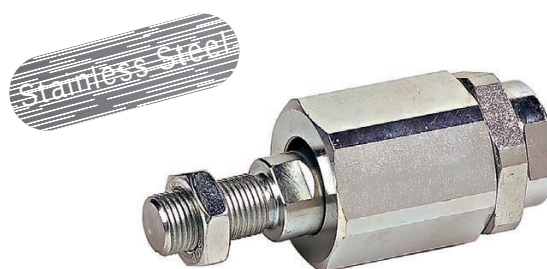
| Code   | Item    | For cylin.<br>ISO<br>ø mm | d  | d3       | B  | C1    | d1   | d2 | d4    | d5 | dk     | h1  | L3 | L4  | L5  | L7 | W  | Static<br>load<br>(daN) | a° | Weight<br>(g) |
|--------|---------|---------------------------|----|----------|----|-------|------|----|-------|----|--------|-----|----|-----|-----|----|----|-------------------------|----|---------------|
| 041576 | RFX4SE  | 8-10                      | 5  | M4       | 8  | 6     | 7,7  | 18 | 9     | 11 | 11,112 | 27  | 10 | 36  | 4   | 10 | 9  | 600                     | 13 | 19            |
| 041570 | RFX6SE  | 12-16                     | 6  | M6       | 9  | 6,75  | 8,9  | 20 | 10    | 13 | 12,700 | 30  | 12 | 40  | 5   | 11 | 11 | 700                     | 13 | 26            |
| 041577 | RFX8SE  | 20                        | 8  | M8       | 12 | 9     | 10,4 | 24 | 12,50 | 16 | 15,875 | 36  | 16 | 48  | 5   | 13 | 14 | 1200                    | 14 | 46            |
| 040009 | RFX10SE | 25-32                     | 10 | M10x1,25 | 14 | 10,50 | 12,9 | 28 | 15    | 19 | 19,050 | 43  | 20 | 57  | 6,5 | 15 | 17 | 1400                    | 13 | 75            |
| 041578 | RFX12SE | 40                        | 12 | M12x1,25 | 16 | 12    | 15,4 | 32 | 17,50 | 22 | 22,225 | 50  | 22 | 66  | 6,5 | 17 | 19 | 1900                    | 13 | 112           |
| 040011 | RFX16SE | 50-63                     | 16 | M16x1,5  | 21 | 15    | 19,3 | 42 | 22    | 27 | 28,575 | 64  | 28 | 85  | 8   | 23 | 22 | 4800                    | 15 | 220           |
| 041579 | RFX20SE | 80-100                    | 20 | M20x1,5  | 25 | 18    | 24,3 | 50 | 27,50 | 34 | 34,925 | 77  | 33 | 102 | 10  | 27 | 30 | 5200                    | 14 | 406           |
| 041580 | RFX30SE | 125                       | 30 | M27x2    | 37 | 25    | 34,8 | 70 | 40    | 50 | 50,800 | 110 | 51 | 145 | 15  | 36 | 41 | 10800                   | 17 | 1120          |
| 041581 | RFX35SE | 160-200                   | 35 | M36x2    | 43 | 28    | 37,7 | 80 | 46    | 58 | 57,150 | 125 | 56 | 165 | 17  | 41 | 50 | 12400                   | 19 | 1595          |

# Mounting Accessories for Stainless Steel Cylinders

## Bearings - Self-aligned articulated couplings



| Standard executions |        |      |
|---------------------|--------|------|
| Version             | Symbol | Type |
| Axial               |        | GBX  |



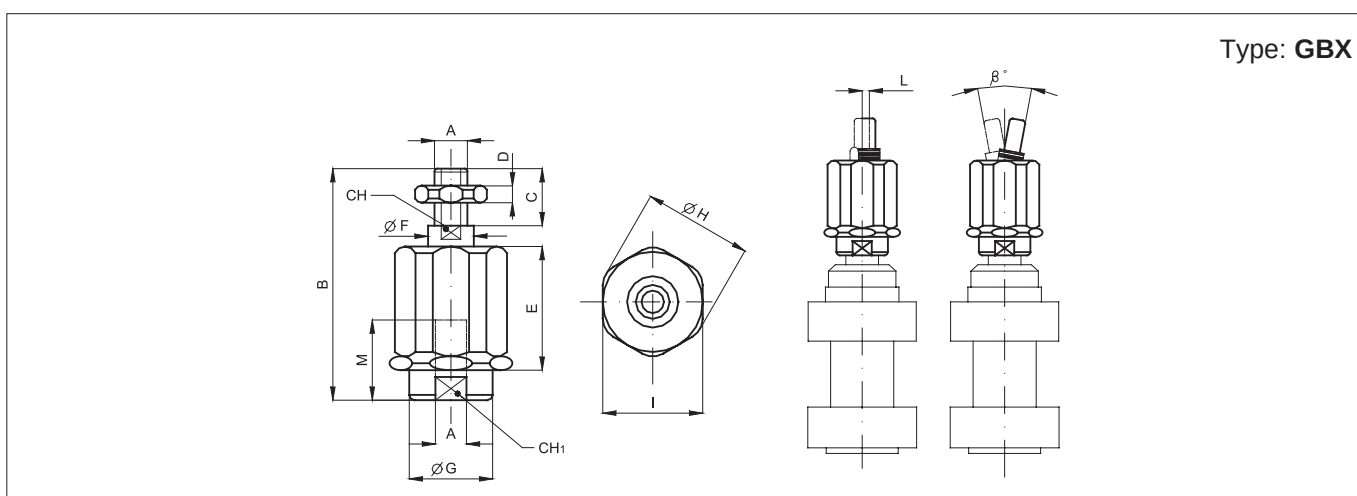
Axial self-aligned articulated couplings mounted on the cylinder rod.

They are fit for applications with high tractions and allow to compensate the angular and parallel misalignments.

They are provided with hexagonal nut in the standard version.

| Options                     | Suffix |
|-----------------------------|--------|
| Special versions on request | / S    |

| Technical data |                          |
|----------------|--------------------------|
| Material       | Stainless Steel AISI 303 |



| Code   | Item   | For cylin.<br>ISO<br>Ø mm | A        | B   | C  | D    | E    | F  | G    | H    | I  | L | M  | CH  | β° | CH <sub>1</sub> | Maximum load<br>(N) in thrust and<br>traction | Weight<br>(g) |
|--------|--------|---------------------------|----------|-----|----|------|------|----|------|------|----|---|----|-----|----|-----------------|-----------------------------------------------|---------------|
| 041734 | GBX008 | 8-10                      | M4x0,7   | 33  | 8  | 2,2  | 15,5 | 6  | 8,5  | 14,5 | 12 | 1 | 10 | 3,2 | 10 | 12              | 750                                           | 20            |
| 041735 | GBX010 | 12-16                     | M6x1     | 39  | 12 | 3,2  | 17,5 | 6  | 8,5  | 14,5 | 13 | 1 | 10 | 5   | 10 | 7               | 1200                                          | 23            |
| 041736 | GBX020 | 20                        | M8x1,25  | 55  | 16 | 4    | 24,5 | 8  | 12,5 | 19   | 17 | 2 | 20 | 7   | 10 | 10              | 2500                                          | 60            |
| 041737 | GBX040 | 25-32                     | M10x1,25 | 73  | 20 | 5    | 34   | 14 | 21   | 32   | 30 | 2 | 20 | 12  | 10 | 19              | 5000                                          | 230           |
| 041738 | GBX060 | 40                        | M12x1,25 | 77  | 24 | 6    | 34   | 14 | 21   | 32   | 30 | 2 | 20 | 12  | 10 | 19              | 5000                                          | 230           |
| 041739 | GBX100 | 50-63                     | M16x1,5  | 108 | 32 | 8    | 54   | 22 | 33,5 | 45   | 41 | 2 | 32 | 19  | 10 | 30              | 10000                                         | 650           |
| 041721 | GBX120 | 80-100                    | M20x1,5  | 122 | 40 | 9    | 54   | 22 | 33,5 | 45   | 41 | 2 | 40 | 19  | 10 | 30              | 10000                                         | 710           |
| 041740 | GBX130 | 125                       | M27x2    | 147 | 54 | 13,5 | 71   | -  | 59   | 60   | 55 | - | 40 | 24  | -  | 32              | -                                             | 1600          |

\* For cylinders not conforming to standards.

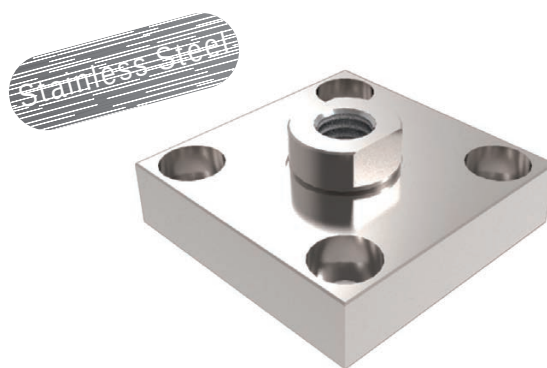


# Mounting Accessories for Stainless Steel Cylinders

## Self-aligned articulated couplings



| Standard executions                |        |      |
|------------------------------------|--------|------|
| Version                            | Symbol | Type |
| Self-aligned articulated couplings |        | GCX  |

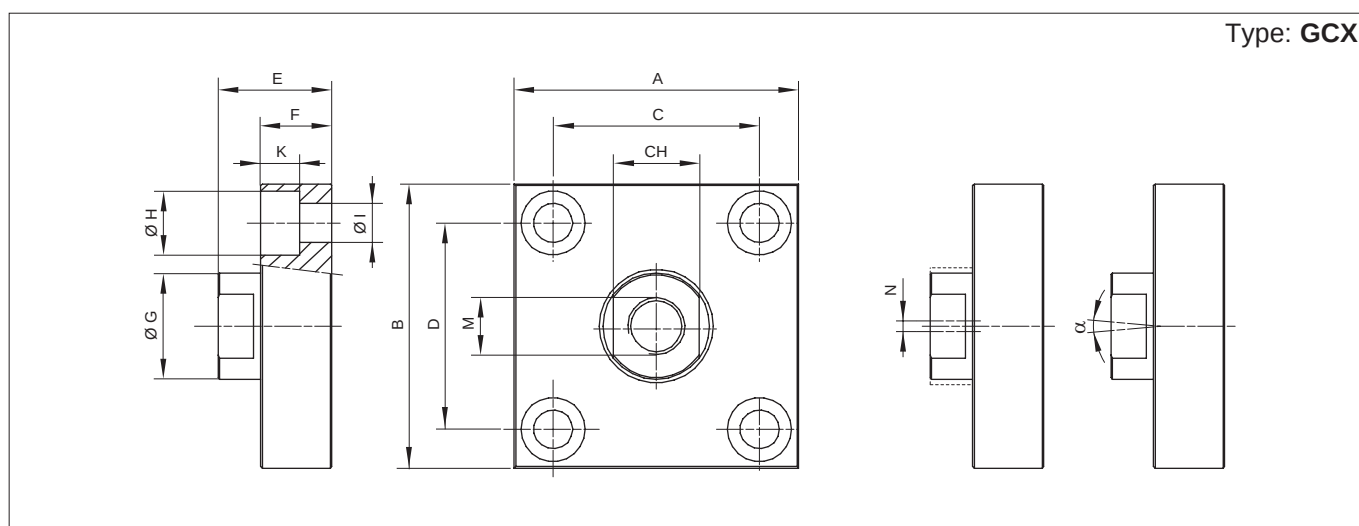


Axial self-aligned articulated couplings mounted on the cylinder rod.

They are suitable for applications with high tractions and allow to compensate the angular and parallel misalignments.

| Options                    | Suffix |
|----------------------------|--------|
| Special version on request | / S    |

| Technical data |                          |
|----------------|--------------------------|
| Material       | Stainless Steel AISI 303 |



| Code   | Item        | A   | B   | C             | D             | CH | E  | F  | Ø G | Ø H | Ø I | K  | M        | N | $\alpha$ | Weight (g) |
|--------|-------------|-----|-----|---------------|---------------|----|----|----|-----|-----|-----|----|----------|---|----------|------------|
| 041728 | GCXM10x1,25 | 60  | 37  | 36 $\pm 0,15$ | 23 $\pm 0,15$ | 17 | 24 | 15 | 20  | 11  | 6,6 | 7  | M10x1,25 | 2 | 0,4÷0,8  | 0,3        |
| 041729 | GCXM12x1,25 | 60  | 56  | 42 $\pm 0,2$  | 38 $\pm 0,2$  | 19 | 30 | 20 | 25  | 15  | 9   | 9  | M12x1,25 | 2 | 0,4÷0,8  | 0,4        |
| 041730 | GCXM16x1,5  | 80  | 80  | 58 $\pm 0,2$  | 58 $\pm 0,2$  | 24 | 32 | 20 | 30  | 18  | 11  | 11 | M16x1,5  | 2 | 0,4÷0,8  | 0,9        |
| 041731 | GCXM20x1,5  | 90  | 90  | 65 $\pm 0,2$  | 65 $\pm 0,2$  | 36 | 35 | 20 | 40  | 20  | 14  | 13 | M20x1,5  | 2 | 0,4÷0,8  | 1,1        |
| 041732 | GCXM27x2    | 90  | 90  | 65 $\pm 0,2$  | 65 $\pm 0,2$  | 36 | 35 | 20 | 40  | 20  | 14  | 13 | M27x2    | 2 | 0,4÷0,8  | 1,1        |
| 041733 | GCXM36x2    | 125 | 125 | 90 $\pm 0,2$  | 90 $\pm 0,2$  | 50 | 55 | 30 | 60  | 26  | 18  | 17 | M36x2    | 3 | 0,4÷0,95 | 3,4        |

# Mounting Accessories for Stainless Steel Cylinders

## Mountings for ISO 6432

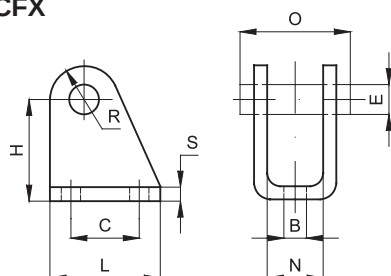


| Standard executions       |        |      |
|---------------------------|--------|------|
| Version                   | Symbol | Type |
| Rear clevis<br>(with pin) |        | CFX  |
| Foot                      |        | PX   |
| Flange                    |        | FX   |



| Technical data |                          |
|----------------|--------------------------|
| Material       | Stainless Steel AISI 304 |

Type: **CFX**

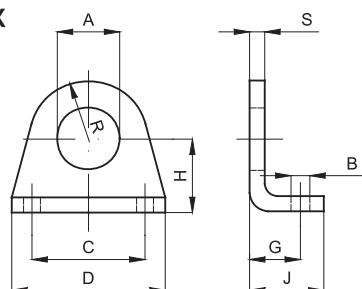


Rear clevis

| Code   | Item     | For cyl.<br>ø mm | B   | E | C  | H  | L  | N    | O  | R  | S | Weight<br>(g) |
|--------|----------|------------------|-----|---|----|----|----|------|----|----|---|---------------|
| 040046 | CFX12-16 | 16               | 5,5 | 6 | 15 | 27 | 25 | 12,1 | 24 | 7  | 3 | 36            |
| 040047 | CFX20-25 | 20-25            | 6,5 | 8 | 20 | 30 | 32 | 16,1 | 31 | 10 | 4 | 78            |

Complete with a pin and 2 seegers in the standard version.

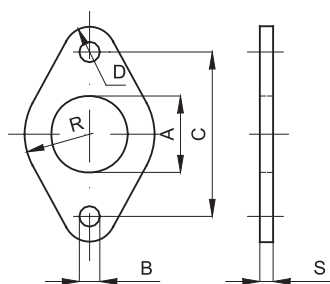
Type: **PX**



Foot

| Code   | Item    | For cyl.<br>ø mm | A    | B   | C  | D  | G  | H  | J  | R  | S | Weight<br>(g) |
|--------|---------|------------------|------|-----|----|----|----|----|----|----|---|---------------|
| 040026 | PX12-16 | 16               | 16,1 | 5,5 | 32 | 42 | 14 | 20 | 20 | 13 | 4 | 40            |
| 040027 | PX20-25 | 20-25            | 22,1 | 6,6 | 40 | 54 | 17 | 25 | 25 | 20 | 5 | 90            |

Type: **FX**



Flange

| Code   | Item    | For cyl.<br>ø mm | A  | B   | C  | R  | D | S | Weight<br>(g) |
|--------|---------|------------------|----|-----|----|----|---|---|---------------|
| 040006 | FX12-16 | 16               | 16 | 5,5 | 40 | 15 | 6 | 4 | 26            |
| 040007 | FX20-25 | 20-25            | 22 | 6,6 | 50 | 20 | 8 | 5 | 50            |

# Mounting Accessories for Stainless Steel Cylinders

## Mounting for round cylinders



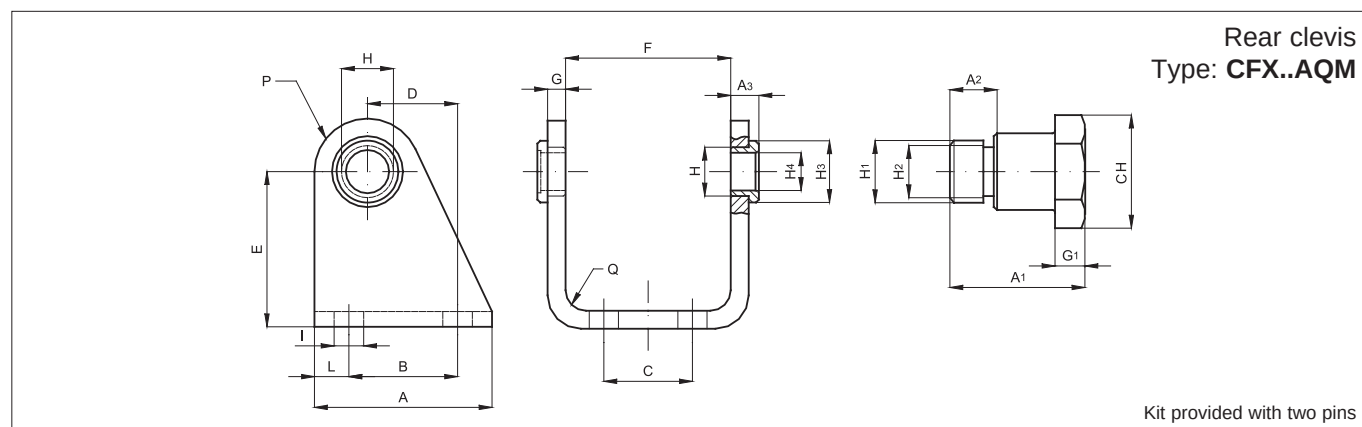
### Standard executions

| Version                   | Symbol | Type      |
|---------------------------|--------|-----------|
| Rear clevis<br>(with pin) |        | CFX..AQM  |
| Foot flange               |        | PX..AQM   |
| Heads nut                 |        | GHX..AQM  |
| Pins                      |        | SECX..AQM |

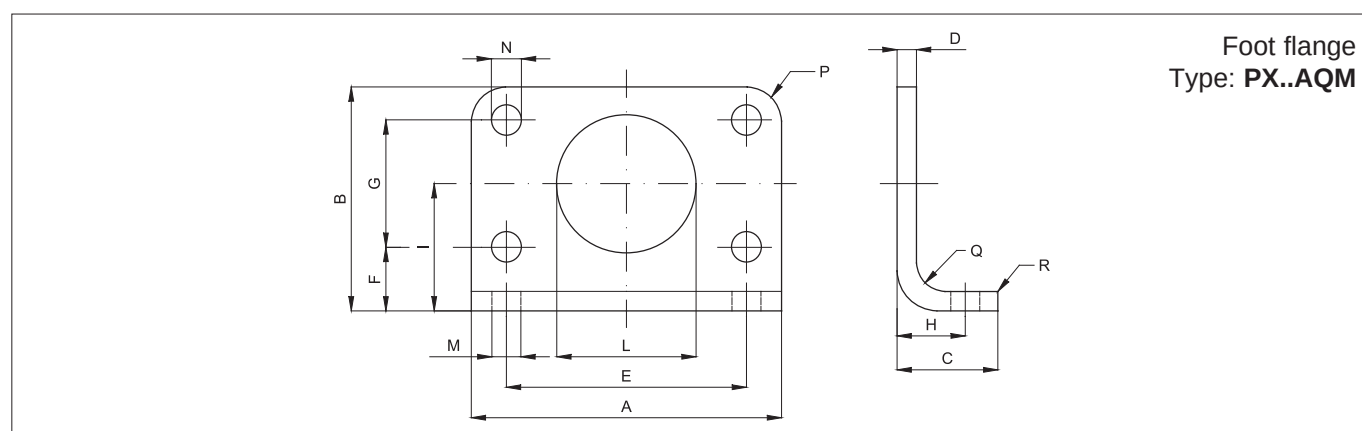


### Technical data

|           |         |                          |
|-----------|---------|--------------------------|
| Materials | Body:   | Stainless steel AISI 304 |
|           | Bushes: | DELTRIN                  |



| Code   | Item     | Ø mm | A  | A <sub>1</sub> | A <sub>2</sub> | A <sub>3</sub> | B  | C  | D  | E  | F    | G | G <sub>1</sub> | H  | H <sub>1</sub> | H <sub>2</sub> | H <sub>3</sub> | H <sub>4</sub> | CH | I | L  | P  | Q |
|--------|----------|------|----|----------------|----------------|----------------|----|----|----|----|------|---|----------------|----|----------------|----------------|----------------|----------------|----|---|----|----|---|
| 040113 | CFX32AQM | 32   | 40 | 18             | 6              | 6              | 24 | 20 | 20 | 35 | 38,1 | 4 | 4              | 12 | 10             | M8x1           | 12             | 10             | 13 | 7 | 8  | 12 | 4 |
| 040111 | CFX40AQM | 40   | 50 | 21,6           | 7              | 7              | 30 | 28 | 27 | 40 | 46,1 | 5 | 5              | 15 | 12             | M10x1          | 15             | 12             | 17 | 9 | 10 | 13 | 5 |
| 040139 | CFX50AQM | 50   | 54 | 26,4           | 9              | 8,5            | 34 | 36 | 30 | 45 | 57,1 | 6 | 6              | 18 | 14             | M12x1,5        | 20             | 14             | 19 | 9 | 10 | 14 | 6 |
| 040031 | CFX63AQM | 63   | 65 | 33,5           | 13             | 8,5            | 35 | 42 | 34 | 50 | 70,1 | 6 | 6              | 20 | 16             | M14x1,5        | 23             | 16             | 19 | 9 | 15 | 16 | 6 |



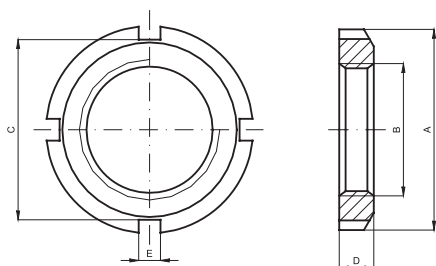
| Code   | Item    | Ø mm | A  | B  | C  | D | E  | F  | G  | H  | I  | Ø L | Ø M | Ø N | P  | Q | R |
|--------|---------|------|----|----|----|---|----|----|----|----|----|-----|-----|-----|----|---|---|
| 040119 | PX32AQM | 32   | 66 | 49 | 21 | 4 | 52 | 14 | 28 | 14 | 28 | 30  | 7   | 7   | 7  | 4 | 2 |
| 040120 | PX40AQM | 40   | 80 | 58 | 30 | 5 | 60 | 18 | 30 | 20 | 33 | 38  | 9   | 9   | 10 | 5 | 2 |
| 040137 | PX50AQM | 50   | 90 | 70 | 30 | 6 | 70 | 20 | 40 | 20 | 40 | 45  | 9   | 9   | 10 | 6 | 2 |
| 040138 | PX63AQM | 63   | 96 | 80 | 30 | 6 | 76 | 20 | 50 | 20 | 45 | 45  | 9   | 9   | 10 | 6 | 2 |

# Mounting Accessories for Stainless Steel Cylinders

## Mounting for round cylinders

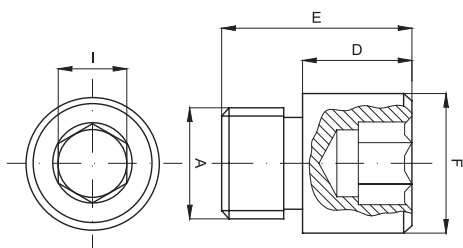


Heads nut  
Type: **GHX...AQM**



| Code   | Item        | Ø mm  | A    | B       | C  | D | E |
|--------|-------------|-------|------|---------|----|---|---|
| 040069 | GHX32AQM    | 32    | Ø 45 | M30x1,5 | 40 | 7 | 5 |
| 040187 | GHX40AQM    | 40    | Ø 50 | M38x1,5 | 46 | 8 | 5 |
| 040188 | GHX50/63AQM | 50/63 | Ø 58 | M45x1,5 | 52 | 9 | 6 |

Pins  
Type: **SECX..AQM**



Kit composed by two pins

| Code   | Item      | Ø mm | A       | D   | E    | F    | I |
|--------|-----------|------|---------|-----|------|------|---|
| 040174 | SECX32AQM | 32   | M8x1    | 8   | 14   | Ø 10 | 5 |
| 040175 | SECX40AQM | 40   | M10x1   | 9,5 | 16,5 | Ø 12 | 6 |
| 040176 | SECX50AQM | 50   | M12x1,5 | 11  | 20   | Ø 14 | 6 |
| 040177 | SECX63AQM | 63   | M14x1,5 | 13  | 28   | Ø 16 | 8 |

# Mounting Accessories for Stainless Steel Cylinders

## Mountings for ISO 15552



### Standard executions

| Version                                       | Sym. | Type         |
|-----------------------------------------------|------|--------------|
| Rear clevis                                   |      | CFX..AQIS    |
| Rear eye                                      |      | CMX..AQIS    |
| Rear 90° hinge<br>CETOP RP 107P               |      | ASVX..AQIS   |
| Pin with rear clevis MP2<br>with seeger       |      | SECX..AQIS   |
| Narrow rear clevis                            |      | CFSX..AQIS   |
| Narrow rear eye with bearing<br>DIN 648K      |      | CMSX..AQIS   |
| Rear 90° hinge with bearing<br>DIN 648K       |      | ASSX..AQIS   |
| Anti-rotating pin for narrow<br>rear clevis   |      | SECX..ARAQIS |
| Flange VDMA                                   |      | FLVX..AQIS   |
| Low foot                                      |      | PBX..AQIS    |
| Round adjustable centre<br>trunnion (tie rod) |      | CTX..AQIS    |

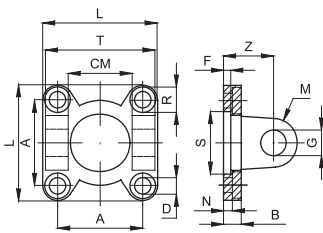


### Technical data

|          |                                |
|----------|--------------------------------|
| Material | Stainless Steel AISI 304 - 316 |
|----------|--------------------------------|

Note: The mounting screws are to be ordered separately. (see page 5.50.1).  
For the accessories of bore 125-160-200 mm, apply for availability.

### Type: CFX

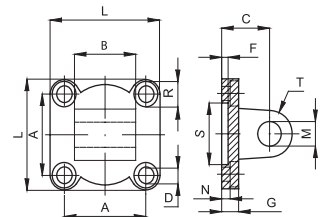


Rear clevis MP2

| Code   | Item       | For cyl.<br>ø mm | A    | L   | D    | R  | N   | B  | S  | F | Z  | G  | M  | CM | T   | Weight<br>(g) |
|--------|------------|------------------|------|-----|------|----|-----|----|----|---|----|----|----|----|-----|---------------|
| 040012 | CFX032AQIS | 32               | 32,5 | 45  | 6,6  | 11 | 5,5 | 10 | 30 | 5 | 22 | 10 | 10 | 26 | 45  |               |
| 040830 | CFX040AQIS | 40               | 38   | 55  | 6,6  | 11 | 5,5 | 10 | 35 | 5 | 25 | 12 | 12 | 28 | 52  |               |
| 040801 | CFX050AQIS | 50               | 46,5 | 65  | 9    | 15 | 6,5 | 10 | 40 | 5 | 27 | 12 | 12 | 32 | 60  |               |
| 040014 | CFX063AQIS | 63               | 56,5 | 75  | 9    | 15 | 6,5 | 12 | 45 | 5 | 32 | 16 | 16 | 40 | 70  |               |
| 040013 | CFX080AQIS | 80               | 72   | 95  | 11   | 18 | 10  | 14 | 45 | 5 | 36 | 16 | 16 | 50 | 90  |               |
| 040838 | CFX100AQIS | 100              | 89   | 115 | 11   | 18 | 10  | 16 | 55 | 5 | 41 | 20 | 20 | 60 | 110 |               |
| 040005 | CFX125AQIS | 125              | 110  | 140 | 13,5 | 20 | 10  | 20 | 60 | 7 | 50 | 25 | 25 | 70 | 130 |               |
| 040797 | CFX160AQIS | 160              | 140  | 180 | 18   | 26 | 10  | 20 | 65 | 7 | 55 | 30 | 25 | 90 | 170 |               |
| 040798 | CFX200AQIS | 200              | 175  | 220 | 18   | 26 | 11  | 20 | 75 | 7 | 60 | 30 | 25 | 90 | 170 |               |

The pin is to be ordered separately: for the pin see page 5.40.2 (SECX..AQIS)

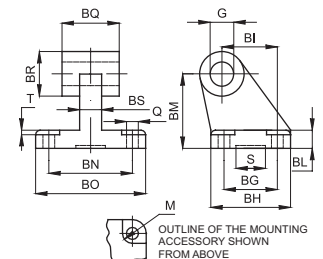
### Type: CMX



Rear eye MP4

| Code   | Item       | For cyl.<br>ø mm | A    | L   | D    | R  | N   | G  | S  | F | C  | M  | T  | B  | Weight<br>(g) |
|--------|------------|------------------|------|-----|------|----|-----|----|----|---|----|----|----|----|---------------|
| 040805 | CMX032AQIS | 32               | 32,5 | 45  | 6,6  | 11 | 5,5 | 10 | 30 | 5 | 22 | 10 | 10 | 26 |               |
| 040806 | CMX040AQIS | 40               | 38   | 55  | 6,6  | 11 | 5,5 | 10 | 35 | 5 | 25 | 12 | 12 | 28 |               |
| 040802 | CMX050AQIS | 50               | 46,5 | 65  | 9    | 15 | 6,5 | 10 | 40 | 5 | 27 | 12 | 12 | 32 | -0,2          |
| 040808 | CMX063AQIS | 63               | 56,5 | 75  | 9    | 15 | 6,5 | 12 | 45 | 5 | 32 | 16 | 16 | 40 | -0,6          |
| 040016 | CMX080AQIS | 80               | 72   | 95  | 11   | 18 | 10  | 14 | 45 | 5 | 36 | 16 | 16 | 50 |               |
| 040799 | CMX100AQIS | 100              | 89   | 115 | 11   | 18 | 10  | 16 | 55 | 5 | 41 | 20 | 20 | 60 |               |
| 040008 | CMX125AQIS | 125              | 110  | 140 | 13,5 | 20 | 10  | 20 | 60 | 7 | 50 | 25 | 25 | 70 |               |
| 040800 | CMX160AQIS | 160              | 140  | 180 | 18   | 26 | 10  | 20 | 65 | 7 | 55 | 30 | 25 | 90 | -0,5          |
| 040804 | CMX200AQIS | 200              | 175  | 220 | 18   | 26 | 11  | 20 | 75 | 7 | 60 | 30 | 25 | 90 | -1,2          |

### Type: ASVX



Rear 90° hinge  
CETOP RP 107P

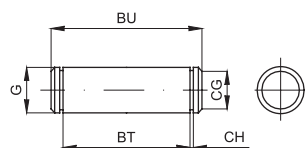
| Code   | Item        | For cyl.<br>ø mm | Q   | M  | BG | BH | BI | BL | BM | BN | BO  | BS | BR | BQ | G  | T   | S  | Weight<br>(g) |
|--------|-------------|------------------|-----|----|----|----|----|----|----|----|-----|----|----|----|----|-----|----|---------------|
| 040809 | ASVX032AQIS | 32               | 6,6 | 11 | 18 | 31 | 21 | 8  | 32 | 38 | 51  | 10 | 20 | 26 | 10 | 1,6 | 20 |               |
| 040810 | ASVX040AQIS | 40               | 6,6 | 11 | 22 | 35 | 24 | 10 | 36 | 41 | 54  | 10 | 22 | 28 | 12 | 1,6 | 20 |               |
| 040812 | ASVX050AQIS | 50               | 9   | 15 | 30 | 45 | 33 | 12 | 45 | 50 | 65  | 14 | 26 | 32 | 12 | 1,6 | 20 |               |
| 040813 | ASVX063AQIS | 63               | 9   | 15 | 35 | 50 | 37 | 12 | 50 | 52 | 67  | 14 | 30 | 40 | 16 | 1,6 | 20 |               |
| 040814 | ASVX080AQIS | 80               | 11  | 18 | 40 | 60 | 47 | 14 | 63 | 66 | 86  | 18 | 30 | 50 | 16 | 2,5 | 20 |               |
| 040815 | ASVX100AQIS | 100              | 11  | 18 | 50 | 70 | 55 | 15 | 71 | 76 | 96  | 20 | 36 | 60 | 20 | 2,5 | 20 |               |
| 040816 | ASVX125AQIS | 125              | 14  | 20 | 60 | 90 | 70 | 20 | 90 | 94 | 124 | 30 | 45 | 70 | 25 | 3,2 | -  |               |

# Mounting Accessories for Stainless Steel Cylinders

## Mountings for ISO 15552



### Type: SECX

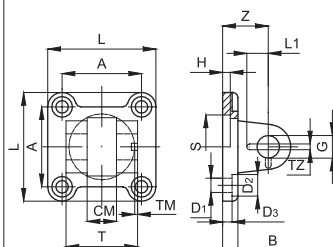


Pin for rear clevis MP2

It is supplied with 2 seegers included.

| Code   | Item        | For cyl. ø mm | G  | BT    | CG   | CH  | BU  | Weight (g) |
|--------|-------------|---------------|----|-------|------|-----|-----|------------|
| 040829 | SECX032AQIS | 32            | 10 | 46    | 9,6  | 1,1 | 53  |            |
| 040831 | SECX040AQIS | 40            | 12 | 53    | 11,5 | 1,1 | 60  |            |
| 040811 | SECX050AQIS | 50            | 12 | 61    | 11,5 | 1,1 | 68  |            |
| 040832 | SECX063AQIS | 63            | 16 | 71    | 15,2 | 1,1 | 78  |            |
| 040015 | SECX080AQIS | 80            | 16 | 91    | 15,2 | 1,1 | 98  |            |
| 040839 | SECX100AQIS | 100           | 20 | 111   | 19   | 1,3 | 118 |            |
| 040818 | SECX125AQIS | 125           | 25 | 132   | 23,9 | 1,3 | 139 |            |
| 040819 | SECX160AQIS | 160           | 30 | 171,5 | 28,6 | 1,6 | 178 |            |
| 040820 | SECX200AQIS | 200           | 30 | 171,5 | 28,6 | 1,6 | 178 |            |

### Type: CFSX

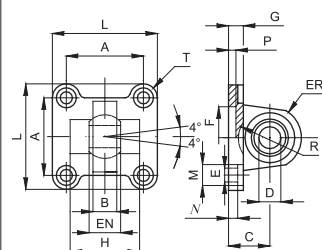


Narrow rear clevis for rear male trunnion with bearing  
DIN 648 K

| Code   | Item        | For cyl. ø mm | L   | T  | CM | A    | Z  | H | B  | DS  | S  | G  | D1   | D2 | TA | TZ  | LI   | Weight (g) |
|--------|-------------|---------------|-----|----|----|------|----|---|----|-----|----|----|------|----|----|-----|------|------------|
| 040821 | CFSX032AQIS | 32            | 45  | 34 | 14 | 32,5 | 22 | 5 | 10 | 5,5 | 30 | 10 | 6,6  | 11 | 3  | 3,3 | 11,5 |            |
| 040822 | CFSX040AQIS | 40            | 55  | 40 | 16 | 38   | 25 | 5 | 10 | 5,5 | 35 | 12 | 6,6  | 11 | 4  | 4,3 | 12   |            |
| 040823 | CFSX050AQIS | 50            | 65  | 45 | 21 | 46,5 | 27 | 5 | 10 | 6,5 | 40 | 16 | 9    | 15 | 4  | 4,3 | 14   |            |
| 040824 | CFSX063AQIS | 63            | 75  | 51 | 21 | 56,5 | 32 | 5 | 12 | 6,5 | 45 | 16 | 9    | 15 | 4  | 4,3 | 14   |            |
| 040825 | CFSX080AQIS | 80            | 95  | 65 | 25 | 72   | 36 | 5 | 16 | 10  | 45 | 20 | 11   | 18 | 4  | 4,3 | 16   |            |
| 040826 | CFSX100AQIS | 100           | 115 | 75 | 25 | 89   | 41 | 5 | 16 | 10  | 55 | 20 | 11   | 18 | 4  | 6,3 | 16   |            |
| 040833 | CFSX125AQIS | 125           | 140 | 97 | 37 | 110  | 50 | 7 | 20 | 10  | 60 | 30 | 13,5 | 20 | 6  | 6,3 | 24   |            |

The pin is to be ordered separately: for the pin see page 5.40.3 (SECX..ARAQIS)

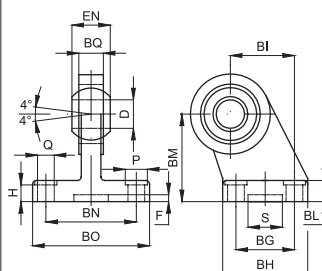
### Type: CMSX



Narrow rear eye for rear male trunnion with bearing  
DIN 648 K

| Code   | Item        | For cyl. ø mm | A    | B    | C  | D  | EN | ER | F  | G  | E    | L   | M    | N   | P | H  | R  | Weight (g) |
|--------|-------------|---------------|------|------|----|----|----|----|----|----|------|-----|------|-----|---|----|----|------------|
| 040834 | CMSX032AQIS | 32            | 32,5 | 10,5 | 22 | 10 | 14 | 15 | 30 | 10 | 6,6  | 45  | 10,5 | 5,5 | 5 | -  | -  |            |
| 040835 | CMSX040AQIS | 40            | 38   | 12   | 25 | 12 | 16 | 18 | 35 | 10 | 6,6  | 55  | 11   | 5,5 | 5 | -  | -  |            |
| 040836 | CMSX050AQIS | 50            | 46,5 | 15   | 27 | 16 | 21 | 20 | 40 | 10 | 9    | 65  | 15   | 6,5 | 5 | 51 | 19 |            |
| 040010 | CMSX063AQIS | 63            | 56,5 | 15   | 32 | 16 | 21 | 23 | 45 | 12 | 9    | 75  | 15   | 6,5 | 5 | -  | -  |            |
| 040837 | CMSX080AQIS | 80            | 72   | 18   | 36 | 20 | 25 | 27 | 45 | 14 | 11   | 95  | 18   | 10  | 5 | -  | -  |            |
| 040848 | CMSX100AQIS | 100           | 89   | 18   | 41 | 20 | 25 | 30 | 55 | 16 | 11   | 115 | 18   | 10  | 5 | -  | -  |            |
| 040849 | CMSX125AQIS | 125           | 110  | 26   | 50 | 30 | 37 | 40 | 60 | 20 | 13,5 | 140 | 20   | 10  | 7 | -  | -  |            |

### Type: ASSX



Rear 90° hinge with bearing  
DIN 648 K

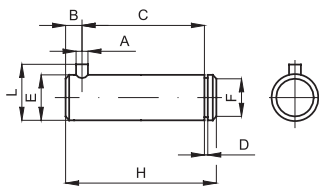
| Code   | Item        | For cyl. ø mm | Q    | M  | BG | BH | BI | BL | BM | BN | BO  | EN | ER | BQ   | D  | H    | S  | F | Weight (g) |
|--------|-------------|---------------|------|----|----|----|----|----|----|----|-----|----|----|------|----|------|----|---|------------|
| 040850 | ASSX032AQIS | 32            | 6,6  | 11 | 18 | 31 | 21 | 10 | 32 | 38 | 51  | 14 | 15 | 10,5 | 10 | 8,5  | 20 | 3 |            |
| 040851 | ASSX040AQIS | 40            | 6,6  | 11 | 22 | 35 | 24 | 10 | 36 | 41 | 54  | 16 | 18 | 12   | 12 | 8,5  | 20 | 3 |            |
| 040852 | ASSX050AQIS | 50            | 9    | 15 | 30 | 45 | 33 | 12 | 45 | 50 | 65  | 21 | 20 | 15   | 16 | 10,5 | 20 | 3 |            |
| 040853 | ASSX063AQIS | 63            | 9    | 15 | 35 | 50 | 37 | 12 | 50 | 52 | 67  | 21 | 23 | 15   | 16 | 10,5 | 20 | 3 |            |
| 040854 | ASSX080AQIS | 80            | 11   | 18 | 40 | 60 | 47 | 14 | 63 | 66 | 86  | 25 | 27 | 18   | 20 | 11,5 | 20 | 3 |            |
| 040855 | ASSX100AQIS | 100           | 11   | 18 | 50 | 70 | 55 | 15 | 71 | 76 | 96  | 25 | 30 | 18   | 20 | 12,5 | 20 | 3 |            |
| 040856 | ASSX125AQIS | 125           | 13,5 | 20 | 60 | 90 | 70 | 20 | 90 | 94 | 124 | 37 | 40 | 25   | 30 | 17   | 20 | 3 |            |

# Mounting Accessories for Stainless Steel Cylinders

## Mountings for ISO 15552



### Type: SECX - AR

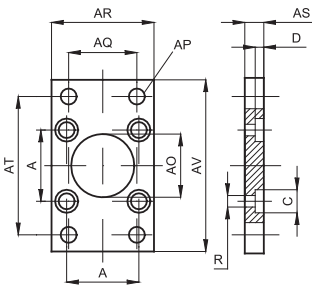


Anti-rotating pin for narrow rear clevis

It is supplied with 1 seeger included.

| Code   | Item          | For cyl.<br>ø mm | A | C    | D   | E  | F    | G | H   | L  | B   |         | Weight<br>(g) |
|--------|---------------|------------------|---|------|-----|----|------|---|-----|----|-----|---------|---------------|
| 040857 | SECX032ARAQIS | 32               | 3 | 32,5 | 1,1 | 10 | 9,6  | 4 | 41  | 14 | 4,5 | 0<br>-1 |               |
| 040858 | SECX040ARAQIS | 40               | 4 | 38   | 1,1 | 12 | 11,5 | 4 | 48  | 16 | 6   |         |               |
| 040859 | SECX050ARAQIS | 50               | 4 | 43   | 1,1 | 16 | 15,2 | 5 | 54  | 20 | 6   |         |               |
| 040860 | SECX063ARAQIS | 63               | 4 | 49   | 1,1 | 16 | 15,2 | 5 | 60  | 20 | 6   |         |               |
| 040861 | SECX080ARAQIS | 80               | 4 | 63   | 1,3 | 20 | 19   | 6 | 75  | 24 | 6   |         |               |
| 040862 | SECX100ARAQIS | 100              | 4 | 73   | 1,3 | 20 | 19   | 6 | 85  | 24 | 6   |         |               |
| 040863 | SECX125ARAQIS | 125              | 6 | 94   | 1,6 | 30 | 28,6 | 7 | 110 | 36 | 9   | 0<br>-2 |               |

### Type: FLVX

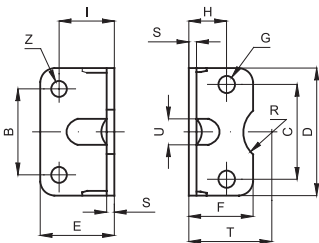


Flange VDMA MF1 / MF2

| Code   | Item        | For cyl.<br>ø mm | A    | AP | AO | R    | AS | AR  | AQ  | AT  | AV  | C    | D    | Weight (g) |
|--------|-------------|------------------|------|----|----|------|----|-----|-----|-----|-----|------|------|------------|
| 040864 | FLVX032AQIS | 32               | 32,5 | 7  | 30 | 6,5  | 10 | 45  | 32  | 64  | 80  | 10,5 | 5    |            |
| 040865 | FLVX040AQIS | 40               | 38   | 9  | 35 | 6,5  | 10 | 52  | 36  | 72  | 90  | 11   | 5    |            |
| 040840 | FLVX050AQIS | 50               | 46,5 | 9  | 40 | 9    | 12 | 65  | 45  | 90  | 110 | 15   | 5,5  |            |
| 040866 | FLVX063AQIS | 63               | 56,5 | 9  | 45 | 9    | 12 | 75  | 50  | 100 | 120 | 15   | 5,5  |            |
| 040867 | FLVX080AQIS | 80               | 72   | 12 | 45 | 11   | 16 | 95  | 63  | 126 | 150 | 18   | 8    |            |
| 040868 | FLVX100AQIS | 100              | 89   | 14 | 55 | 11   | 16 | 115 | 75  | 150 | 170 | 18   | 8    |            |
| 040869 | FLVX125AQIS | 125              | 110  | 16 | 60 | 13,5 | 20 | 140 | 90  | 180 | 205 | 20   | 9,5  |            |
| 040870 | FLVX160AQIS | 160              | 140  | 18 | 65 | 18   | 20 | 180 | 115 | 230 | 260 | 26   | 10,5 |            |
| 040871 | FLVX200AQIS | 200              | 175  | 22 | 75 | 18   | 25 | 220 | 135 | 270 | 300 | 26   | 12,5 |            |

Lowered head screws type VBTRX (see page 5.35.1) must be used with this mounting accessory.

### Type: PBX

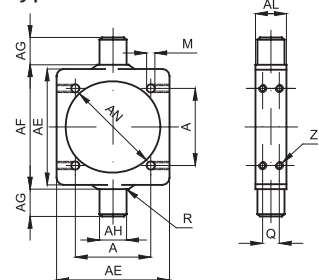


Low foot MS1

| Code   | Item       | For cyl.<br>ø mm | C    | B   | D   | E   | F   | G  | H     | I  | S  | T   | R    | U  | Z  | Weight (g) |
|--------|------------|------------------|------|-----|-----|-----|-----|----|-------|----|----|-----|------|----|----|------------|
| 040872 | PBX032AQIS | 32               | 32,5 | 32  | 45  | 35  | 30  | 7  | 15,75 | 24 | 4  | 32  | 15   | 11 | 7  |            |
| 040873 | PBX040AQIS | 40               | 38   | 36  | 52  | 36  | 30  | 7  | 17    | 28 | 4  | 36  | 17,5 | 15 | 9  |            |
| 040874 | PBX050AQIS | 50               | 46,5 | 45  | 65  | 47  | 36  | 9  | 21,75 | 32 | 5  | 45  | 20   | 16 | 9  |            |
| 040875 | PBX063AQIS | 63               | 56,5 | 50  | 75  | 45  | 35  | 9  | 21,75 | 32 | 5  | 50  | 22,5 | 18 | 9  |            |
| 040876 | PBX080AQIS | 80               | 72   | 63  | 95  | 55  | 47  | 11 | 27    | 41 | 6  | 63  | 22,5 | 17 | 12 |            |
| 040877 | PBX100AQIS | 100              | 89   | 75  | 115 | 57  | 53  | 11 | 26,5  | 41 | 6  | 71  | 27,5 | 24 | 14 |            |
| 040878 | PBX125AQIS | 125              | 110  | 90  | 140 | 70  | 70  | 14 | 35    | 45 | 8  | 90  | 30   | -  | 16 |            |
| 040879 | PBX160AQIS | 160              | 140  | 115 | 180 | 75  | 100 | 18 | 45    | 60 | 9  | 115 | 32,5 | -  | 18 |            |
| 040880 | PBX200AQIS | 200              | 175  | 135 | 220 | 100 | 100 | 18 | 47,5  | 70 | 12 | 135 | 37,5 | -  | 22 |            |

It is supplied singly.

### Type: CTX



Round adjustable centre trunnion (tie rod) MT4

| Code   | Item       | For cyl.<br>ø mm | A    | AE  | AL | AH | AG | AF  | AN  | R   | M     | Q  | Z   | Weight (g) |
|--------|------------|------------------|------|-----|----|----|----|-----|-----|-----|-------|----|-----|------------|
| 040881 | CTX032AQIS | 32               | 32,5 | 46  | 15 | 12 | 12 | 50  | 37  | 1   | 6,25  | 7  | M5  |            |
| 040882 | CTX040AQIS | 40               | 38   | 59  | 20 | 16 | 16 | 63  | 46  | 1,5 | 6,25  | 8  | M5  |            |
| 040883 | CTX050AQIS | 50               | 46,5 | 69  | 20 | 16 | 16 | 75  | 56  | 1,6 | 8,25  | 8  | M6  |            |
| 040884 | CTX063AQIS | 63               | 56,5 | 84  | 25 | 20 | 20 | 90  | 69  | 1,6 | 8,25  | 12 | M6  |            |
| 040885 | CTX080AQIS | 80               | 72   | 102 | 25 | 20 | 20 | 110 | 87  | 1,6 | 10,25 | 12 | M8  |            |
| 040550 | CTX100AQIS | 100              | 89   | 125 | 30 | 25 | 25 | 132 | 107 | 2   | 10,25 | 15 | M8  |            |
| 040886 | CTX125AQIS | 125              | 110  | 155 | 32 | 25 | 25 | 160 | 134 | 2   | 12,25 | 15 | M10 |            |
| 040887 | CTX160AQIS | 160              | 140  | 190 | 40 | 32 | 32 | 200 | 171 | 2,5 | 16,25 | 18 | M12 |            |
| 040888 | CTX200AQIS | 200              | 175  | 240 | 40 | 32 | 32 | 250 | 214 | 2,5 | 16,25 | 18 | M12 |            |

For this accessories order separately 8 screws. (see page 5.50.1)





Type: VTCEIX



VTCEI - UNI5931

Type: VBTRX



VBTR - DIN6912

Type: GRAINS



GRAINS - UNI5927

### FIXING SCREWS FOR CYLINDERS STAINLESS STEEL

| Ø Cyl. | Code   | Item         | Norm    | CFX | CMX | CFSX | CMSX | FLVX | PBX |
|--------|--------|--------------|---------|-----|-----|------|------|------|-----|
| 32     | 040787 | VTCEIXM6x18  | UNI5931 | ■   | ■   | ■    | ■    |      | ■   |
|        | 040792 | VBTRXM6x18   | DIN6912 |     |     |      |      | ■    |     |
| 40     | 040787 | VTCEIXM6x18  | UNI5931 | ■   | ■   | ■    | ■    |      | ■   |
|        | 040792 | VBTRXM6x18   | DIN6912 |     |     |      |      | ■    |     |
| 50     |        | VTCEIXM8x16  | UNI5931 |     |     |      |      |      | ■   |
|        | 040788 | VTCEIXM8x20  | UNI5931 | ■   | ■   | ■    | ■    |      |     |
|        | 040793 | VBTRXM8x20   | DIN6912 |     |     |      |      | ■    |     |
| 63     |        | VTCEIXM8x16  | UNI5931 |     |     |      |      |      | ■   |
|        | 040788 | VTCEIXM8x20  | UNI5931 | ■   | ■   | ■    | ■    |      |     |
|        | 040793 | VBTRXM8x20   | DIN6912 |     |     |      |      | ■    |     |
| 80     | 040789 | VTCEIXM10x20 | UNI5931 |     |     |      |      |      | ■   |
|        | 040794 | VBTRXM10x20  | DIN6912 |     |     |      |      | ■    |     |
|        | 881479 | VTCEIXM10x25 | UNI5931 | ■   | ■   | ■    | ■    |      |     |
| 100    | 040789 | VTCEIXM10x20 | UNI5931 |     |     |      |      |      | ■   |
|        | 040794 | VBTRXM10x20  | DIN6912 |     |     |      |      | ■    |     |
|        | 881479 | VTCEIXM10x25 | UNI5931 | ■   | ■   | ■    | ■    |      |     |
| 125    |        | VTCEIXM12x25 | UNI5931 |     |     |      |      |      | ■   |
|        | 040705 | VTCEIXM12x30 | UNI5931 | ■   | ■   | ■    | ■    |      |     |
|        |        | VBTRXM12x30  | DIN6912 |     |     |      |      | ■    |     |
| 160    | 040791 | VTCEIXM16x30 | UNI5931 | ■   | ■   | ■    | ■    |      | ■   |
|        | 040796 | VBTRXM16x30  | DIN6912 |     |     |      |      | ■    |     |
| 200    | 040791 | VTCEIXM16x30 | UNI5931 | ■   | ■   | ■    | ■    |      | ■   |
|        | 040796 | VBTRXM16x30  | DIN6912 |     |     |      |      | ■    |     |

### GRAINS FOR INTERMEDIATE HINGE STAINLESS STEEL

| Ø Cylinder | Code   | Item   | Norm    | CTX |
|------------|--------|--------|---------|-----|
| 32/40      | 885125 | M5x5   | UNI5927 | ■   |
| 50/63      | 885119 | M6x10  | UNI5927 | ■   |
| 80/100     | 883534 | M8x10  | UNI5927 | ■   |
| 125        | 884990 | M10x14 | UNI5927 | ■   |
| 160/200    | 885126 | M12x20 | UNI5927 | ■   |





# Valves series AX1

## 1/4", 3/2, IN LINE interface, electrically operated



| Standard executions                      |        |        |         |
|------------------------------------------|--------|--------|---------|
| Version                                  | Symbol | Code   | Item    |
| 3/2 NC                                   |        | 037004 | AX1E230 |
| 3/2 NO                                   |        | 037009 | AX1E231 |
| 3/2 solenoid/solenoid                    |        | 037010 | AX1E232 |
| 3/2 NC external air pilot                |        | 037011 | AX1K230 |
| 3/2 solenoid/solenoid external air pilot |        | 037012 | AX1K232 |

*New*



New series of "AX" valves with functions 3/2 connections in line on the body, electric and electric servo pilot.

They are manufactured in AISI 316L stainless steel, especially suitable in the food, chemical, pharmaceutical, Oil & Gas and mining industry.

AX valves are manufactured according to 2014/34/EU Directive to be used in potentially explosive environment.



II 2Gc IIB T5  
II 2Dc T100°C

Coils and connectors have to be ordered separately:

For the coils type ASA12...

see page 2.200.1

For the coils type ASA2...

see page 2.200.10

For the coils type ASA34... (only for EG/KG)

see page 2.200.30

For connector see what suggested for the coil



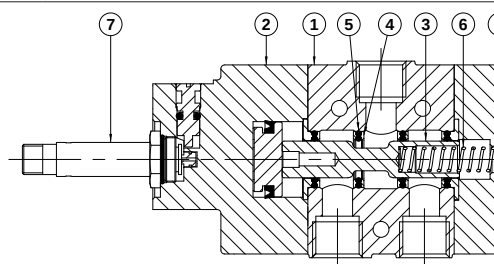
For the ATEX valves with coils Ex see version  
XX-XA-XB-XC-XD from page 5.81.1

| Code key                                                |                                                                                                                                |                             |                                                          |               |
|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------------------------------------|---------------|
| Series                                                  | Actuation                                                                                                                      | Size                        | Function                                                 | Option        |
| AX1 = Standard<br>AXX1* = Completely in stainless steel | E = electrical Ø9<br>K = electrical Ø9 external air pilot<br>EG** = electrical Ø13<br>KG** = electrical Ø13 external air pilot | 2 = 1/4 Gas<br>2N = 1/4 NPT | 30 = 3/2 NC<br>31 = 3/2 NO<br>32 = 3/2 solenoid/solenoid | V = Seals FKM |

\*On request

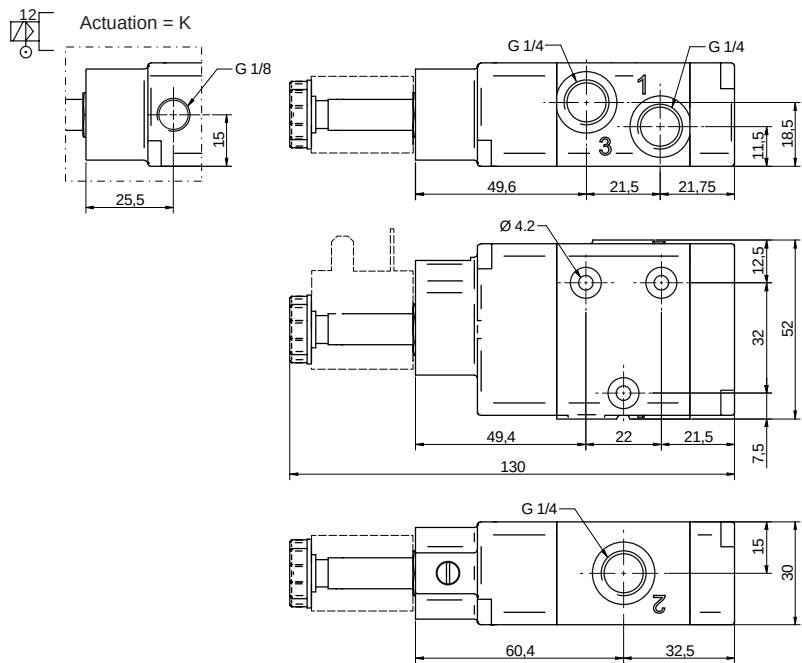
\*\* For actuation EG/KG use coils type ASA34

| Technical data                |                 |                                                                                                   |                                |
|-------------------------------|-----------------|---------------------------------------------------------------------------------------------------|--------------------------------|
| Fluid                         |                 | Compressed filtered air with or without lubrication. Lubrication, if started, must be continued.  |                                |
| Threaded connection           |                 | 1/4 Gas - 1/4 NPT                                                                                 |                                |
| Pressure range                | Standard        | Spring return: 2,5 ÷ 10 bar (E - K)                                                               | Bistable: 1 ÷ 10 bar (E - K)   |
|                               | High pressure   | Spring return: 2,5 ÷ 12 bar (EG - KG)                                                             | Bistable: 1 ÷ 12 bar (EG - KG) |
| Minimum external air pressure |                 | 1,5 bar (K - KG)                                                                                  |                                |
| Temperature range             |                 | -25°C ÷ +70°C (standard)<br>-10°C ÷ +90°C (V)                                                     |                                |
| Protection grade              |                 | -                                                                                                 |                                |
| Ø Orifice                     |                 | 8 mm                                                                                              |                                |
| Flow                          |                 | 1.100 NI/min at 6 bar with ΔP 1 bar                                                               |                                |
| Mounting                      |                 | In any position (vertical assembly is not recommended for bistable valves subjected to vibration) |                                |
| Manual override               |                 | Bistable                                                                                          |                                |
| Response time (at 6 bar)      |                 | Energising: - ms                                                                                  | Energising: - ms               |
|                               |                 | De-energising: - ms                                                                               | De-energising: - ms            |
| Materials                     | (1) Body:       | Stainless steel AISI 316L                                                                         |                                |
|                               | (2) Cover:      | Stainless steel AISI 316L                                                                         |                                |
|                               | (3) Spool:      | Hard aluminium anodized (AX1 series)<br>Stainless steel AISI 316 (AXX1 series)                    |                                |
|                               | (4) Distancers: | Ixef 1022 (AX1 series)<br>Stainless steel AISI 316 (AXX1 series)                                  |                                |
|                               | (5) Seals:      | Hydrogenate Nitrile Butadine Rubber (HNBR)                                                        |                                |
|                               | (6) Spring:     | Stainless steel                                                                                   |                                |
|                               | (7) Operator:   | Stainless steel                                                                                   |                                |

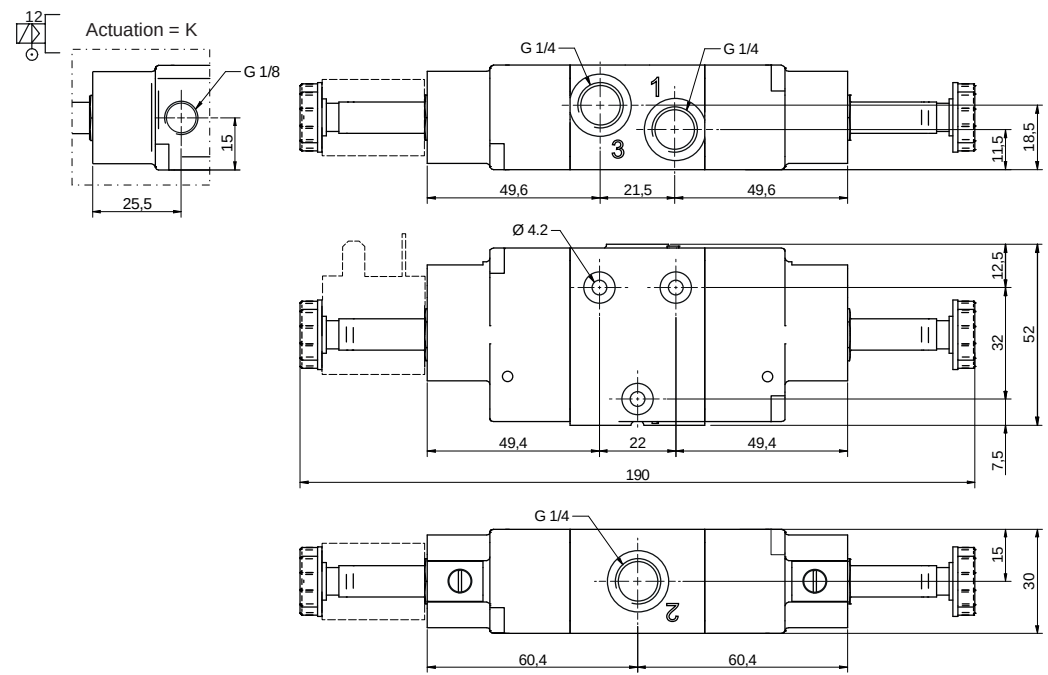


# Valves series AX1

1/4", 3/2, IN LINE interface, electrically operated



| Version                      | Symbol | Code   | Item    |
|------------------------------|--------|--------|---------|
| 3/2 NC                       |        | 037004 | AX1E230 |
| 3/2 NO                       |        | 037009 | AX1E231 |
| 3/2 NC<br>external air pilot |        | 037011 | AX1K230 |



| Version                                     | Symbol | Code   | Item    |
|---------------------------------------------|--------|--------|---------|
| 3/2 solenoid/solenoid                       |        | 037010 | AX1E232 |
| 3/2 solenoid/solenoid<br>external air pilot |        | 037012 | AX1K232 |

# Valves series AX1

## 1/4", 5/2 - 5/3, IN LINE interface, electrically operated



| Standard executions                        |        |        |         |
|--------------------------------------------|--------|--------|---------|
| Version                                    | Symbol | Code   | Item    |
| 5/2 solenoid/spring                        |        | 037003 | AX1E250 |
| 5/2 solenoid/solenoid                      |        | 037006 | AX1E251 |
| 5/2 solenoid/solenoid differential         |        | 037013 | AX1E252 |
| 5/3 closed centres                         |        | 037014 | AX1E270 |
| 5/3 open centres                           |        | 037015 | AX1E271 |
| 5/3 pressurised centres                    |        | 037016 | AX1E272 |
| 5/2 solenoid/spring external air pilot     |        | 037017 | AX1K250 |
| 5/2 solenoid/solenoid external air pilot   |        | 037018 | AX1K251 |
| 5/3 closed centres, external air pilot     |        | 037019 | AX1K270 |
| 5/3 open centres, external air pilot       |        | 037020 | AX1K271 |
| 5/3 pressurised centres external air pilot |        | 037021 | AX1K272 |

**New**



New series of "AX" valves with functions 5/2, 5/3 connections in line on the body, electric and electric servo pilot.

They are manufactured in AISI 316L stainless steel, especially suitable in the food, chemical, pharmaceutical, Oil & Gas and mining industry.

AX valves are manufactured according to 2014/34/EU Directive to be used in potentially explosive environment.



II 2Gc IIB T5  
II 2Dc T100°C

Coils and connectors have to be ordered separately:

For the coils type ASA12...

see page 2.200.1

For the coils type ASA2...

see page 2.200.10

For the coils type ASA34... (only for EG/KG)

see page 2.200.30

For connector see what suggested for the coil



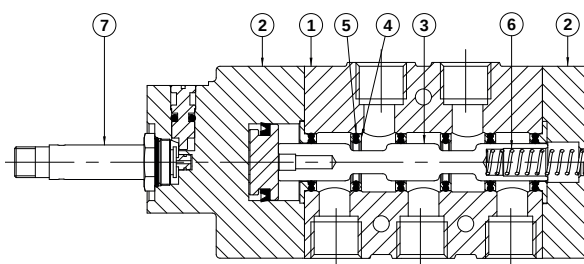
For the ATEX valves with coils Ex see version  
XX-XA-XB-XC-XD from page 5.81.1

| Code key                                                |                                                                                                                                |                             |                                                                                                                                                |               |
|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Series                                                  | Actuation                                                                                                                      | Size                        | Function                                                                                                                                       | Option        |
| AX1 = Standard<br>AXX1* = Completely in stainless steel | E = electrical Ø9<br>K = electrical Ø9 external air pilot<br>EG** = electrical Ø13<br>KG** = electrical Ø13 external air pilot | 2 = 1/4 Gas<br>2N = 1/4 NPT | 50 = 5/2 solenoid/spring<br>51 = 5/2 solenoid/solenoid<br>52 = 5/2 solenoid/solenoid differential<br>70 = 5/3 CC<br>71 = 5/3 OC<br>72 = 5/3 PC | V = Seals FKM |

\*On request

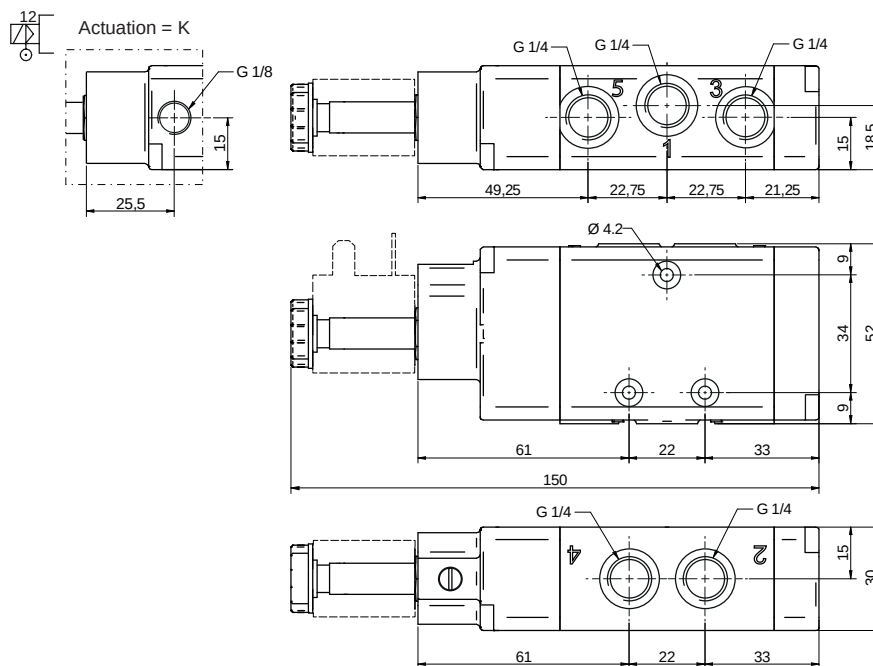
\*\* For actuation EG/KG use coils type ASA34

| Technical data                |                 |                                                                                                   |                           |                                |
|-------------------------------|-----------------|---------------------------------------------------------------------------------------------------|---------------------------|--------------------------------|
| Fluid                         |                 | Compressed filtered air with or without lubrication. Lubrication, if started, must be continued.  |                           |                                |
| Threaded connection           |                 | 1/4 Gas - 1/4 NPT                                                                                 |                           |                                |
| Pressure range                | Standard        | Spring return: 2,5 ÷ 10 bar (E)                                                                   | Bistable: 1 ÷ 10 bar (E)  | 3 positions: 2,5 ÷ 10 bar (E)  |
|                               | High pressure   | Spring return: 2,5 ÷ 12 bar (EG)                                                                  | Bistable: 1 ÷ 12 bar (EG) | 3 positions: 2,5 ÷ 12 bar (EG) |
| Minimum external air pressure |                 | 1,5 bar (K - KG)                                                                                  |                           |                                |
| Temperature range             |                 | -25°C ÷ +70°C (standard)<br>-10°C ÷ +90°C (V)                                                     |                           |                                |
| Protection grade              |                 | -                                                                                                 |                           |                                |
| Ø Orifice                     |                 | 8 mm                                                                                              |                           |                                |
| Flow                          |                 | 1.100 Nl/min at 6 bar with ΔP 1 bar                                                               |                           |                                |
| Mounting                      |                 | In any position (vertical assembly is not recommended for bistable valves subjected to vibration) |                           |                                |
| Manual override               |                 | Bistable                                                                                          |                           |                                |
| Response time (at 6 bar)      |                 | Energising: - ms                                                                                  | Energising: - ms          | Energising: - ms               |
|                               |                 | De-energising: - ms                                                                               | De-energising: - ms       | De-energising: - ms            |
| Materials                     | (1) Body:       | Stainless steel AISI 316L                                                                         |                           |                                |
|                               | (2) Cover:      | Stainless steel AISI 316L                                                                         |                           |                                |
|                               | (3) Spool:      | Hard aluminium anodized (AX1 series)<br>Stainless steel AISI 316 (AXX1 series)                    |                           |                                |
|                               | (4) Distancers: | Ixef 1022 (AX1 series)<br>Stainless steel AISI 316 (AXX1 series)                                  |                           |                                |
|                               | (5) Seals:      | Hydrogenate Nitrile Butadine Rubber (HNBR)                                                        |                           |                                |
|                               | (6) Spring:     | Stainless steel                                                                                   |                           |                                |
|                               | (7) Operator:   | Stainless steel                                                                                   |                           |                                |

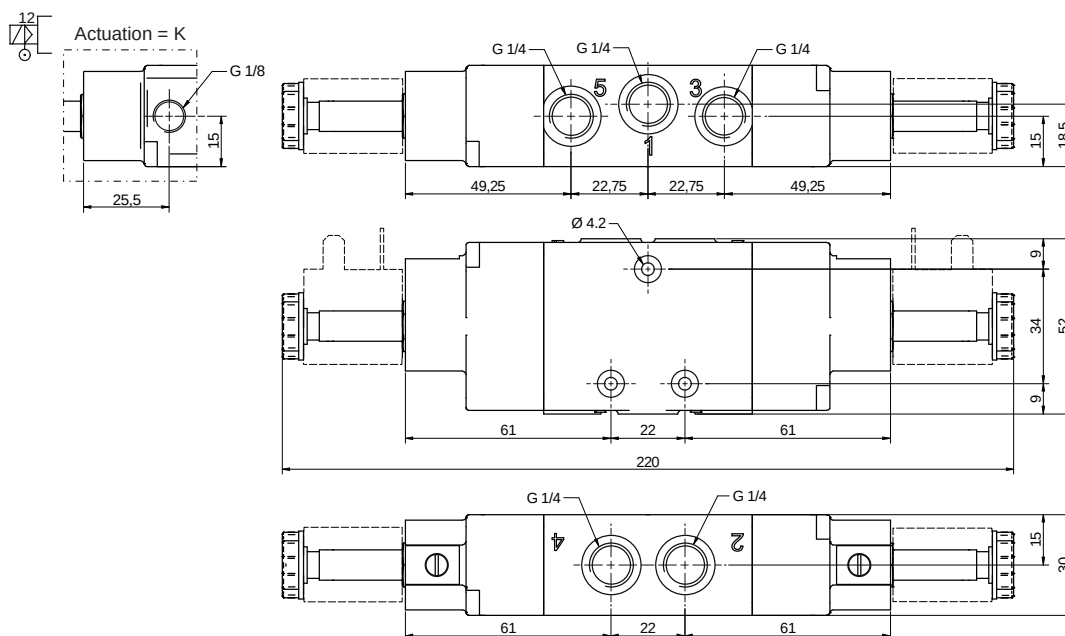


# Valves series AX1

1/4", 5/2 - 5/3, IN LINE interface, electrically operated



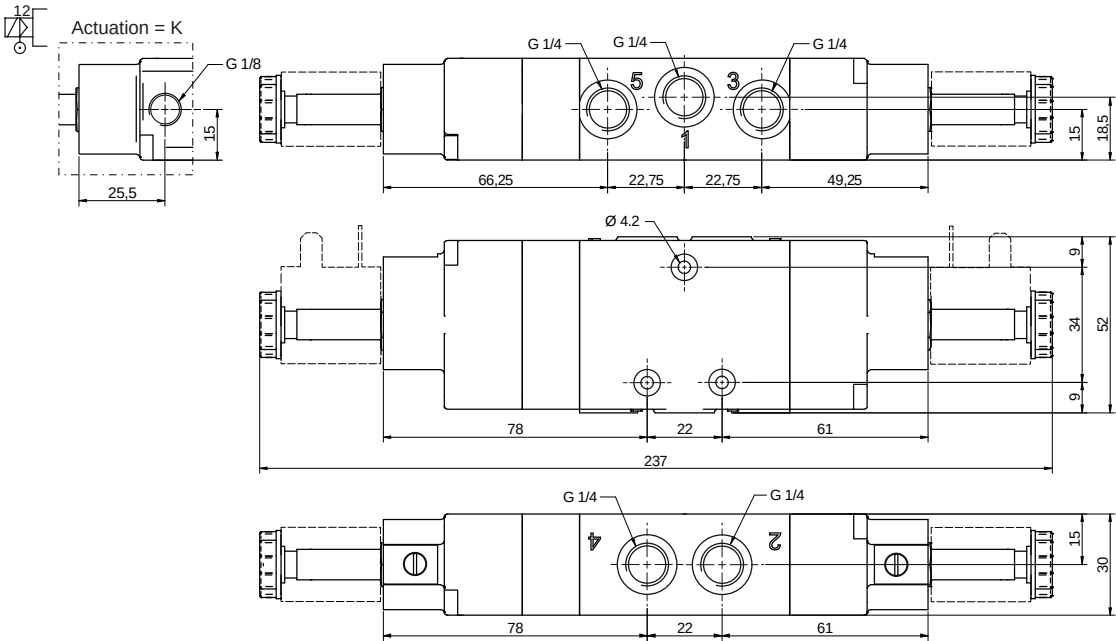
| Version                                   | Symbol | Code   | Item    |
|-------------------------------------------|--------|--------|---------|
| 5/2 solenoid/spring                       |        | 037003 | AX1E250 |
| 5/2 solenoid/spring<br>external air pilot |        | 037017 | AX1K250 |



| Version                                     | Symbol | Code   | Item    |
|---------------------------------------------|--------|--------|---------|
| 5/2 solenoid/solenoid                       |        | 037006 | AX1E251 |
| 5/2 solenoid/solenoid<br>differential       |        | 037013 | AX1E252 |
| 5/2 solenoid/solenoid<br>external air pilot |        | 037018 | AX1K251 |

# Valves series AX1

1/4", 5/2 - 5/3, IN LINE interface, electrically operated



| Version                 | Symbol | Code   | Item    |
|-------------------------|--------|--------|---------|
| 5/3 closed centres      |        | 037014 | AX1E270 |
| 5/3 open centres        |        | 037015 | AX1E271 |
| 5/3 pressurised centres |        | 037016 | AX1E272 |

| Version                                    | Symbol | Code   | Item    |
|--------------------------------------------|--------|--------|---------|
| 5/3 closed centres, external air pilot     |        | 037019 | AX1K270 |
| 5/3 open centres, external air pilot       |        | 037020 | AX1K271 |
| 5/3 pressurised centres external air pilot |        | 037021 | AX1K272 |

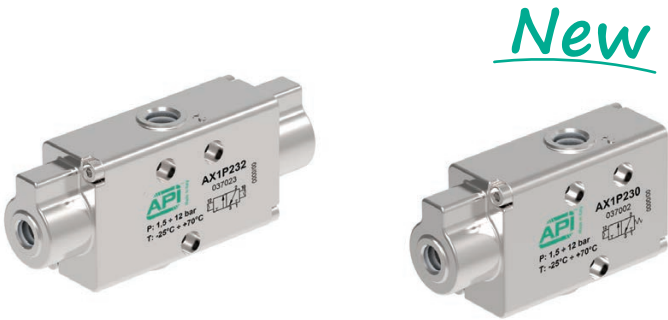


# Valves series AX1

1/4", 3/2, IN LINE interface, pneumatically operated



| Standard executions |        |        |         |
|---------------------|--------|--------|---------|
| Version             | Symbol | Code   | Item    |
| 3/2 NC              |        | 037002 | AX1P230 |
| 3/2 NO              |        | 037022 | AX1P231 |
| 3/2 pilot/pilot     |        | 037023 | AX1P232 |



New series of "AX" valves with functions 3/2 connections in line on the body and pneumatic pilot.

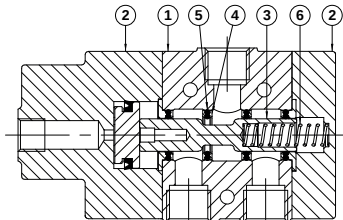
They are manufactured in AISI 316L stainless steel, especially suitable in the food, chemical, pharmaceutical, Oil & Gas and mining industry.

AX valves are manufactured according to 2014/34/EU Directive to be used in potentially explosive environment.

II 2Gc IIB T5  
II 2Dc T100°C

| Code key                                                |               |                            |                                                    |               |
|---------------------------------------------------------|---------------|----------------------------|----------------------------------------------------|---------------|
| Series                                                  | Actuation     | Size                       | Function                                           | Option        |
| AX1 = Standard<br>AXX1* = Completely in stainless steel | P = pneumatic | 2 = 1/4 Gas<br>2N= 1/4 NPT | 30 = 3/2 NC<br>31 = 3/2 NO<br>32 = 3/2 pilot/pilot | V = Seals FKM |

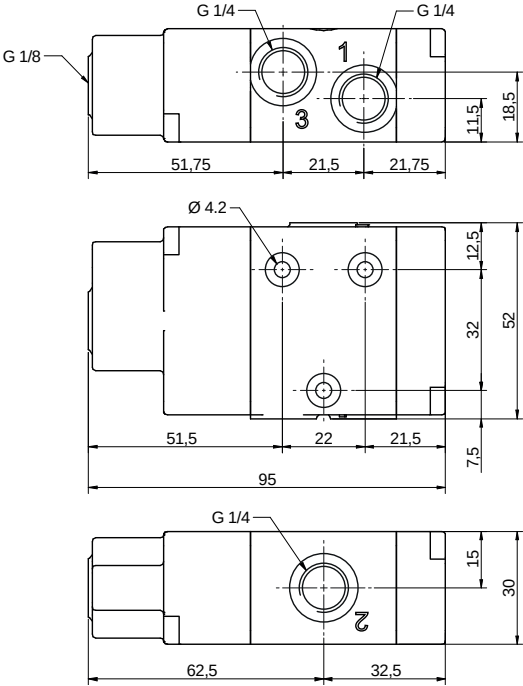
\*On request

| Technical data           |                 |                                                                                                   |                      |
|--------------------------|-----------------|---------------------------------------------------------------------------------------------------|----------------------|
| Fluid                    |                 | Compressed filtered air with or without lubrication. Lubrication, if started, must be continued.  |                      |
| Threaded connection      |                 | 1/4 Gas - 1/4 NPT                                                                                 |                      |
| Pressure range           |                 | Spring return: 2,5 ÷ 12 bar                                                                       | Bistable: 1 ÷ 12 bar |
| Temperature range        |                 | -25°C ÷ +70°C (standard)<br>-10°C ÷ +90°C (V)                                                     |                      |
| Protection grade         |                 | -                                                                                                 |                      |
| Ø Orifice                |                 | 8 mm                                                                                              |                      |
| Flow                     |                 | 1.100 NI/min at 6 bar with ΔP 1 bar                                                               |                      |
| Mounting                 |                 | In any position (vertical assembly is not recommended for bistable valves subjected to vibration) |                      |
| Response time (at 6 bar) |                 | Energising: - ms                                                                                  | Energising: - ms     |
|                          |                 | De-energising: - ms                                                                               | De-energising: - ms  |
| Materials                | (1) Body:       | Stainless steel AISI 316L                                                                         |                      |
|                          | (2) Cover:      | Stainless steel AISI 316L                                                                         |                      |
|                          | (3) Spool:      | Hard aluminium anodized (AX1 series)<br>Stainless steel AISI 316 (AXX1 series)                    |                      |
|                          | (4) Distancers: | Ixef 1022 (AX1 series)<br>Stainless steel AISI 316 (AXX1 series)                                  |                      |
|                          | (5) Seals:      | Hydrogenate Nitrile Butadine Rubber (HNBR)                                                        |                      |
|                          | (6) Spring:     | Stainless steel                                                                                   |                      |
|                          |                 |              |                      |

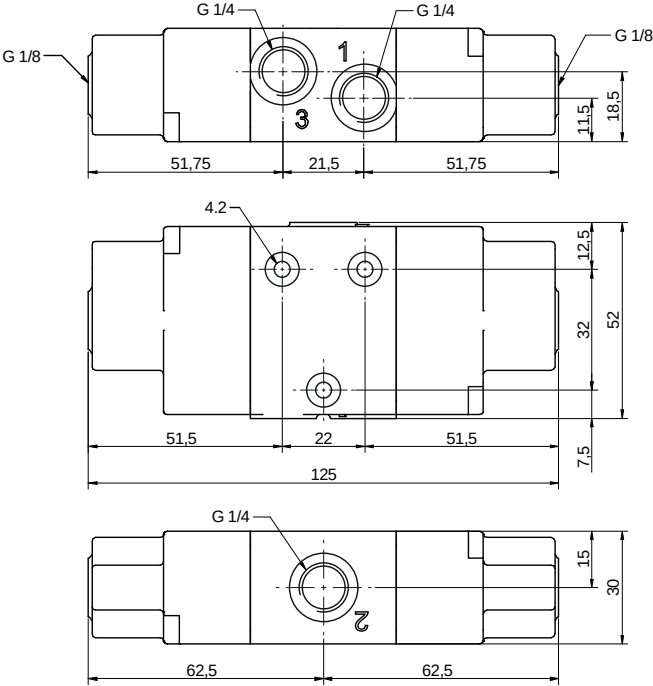


# Valves series AX1

1/4", 3/2, IN LINE interface, pneumatically operated



| Version | Symbol | Code   | Item    |
|---------|--------|--------|---------|
| 3/2 NC  |        | 037002 | AX1P230 |
| 3/2 NO  |        | 037022 | AX1P231 |



| Version         | Symbol | Code   | Item    |
|-----------------|--------|--------|---------|
| 3/2 pilot/pilot |        | 037023 | AX1P232 |

# Valves series AX1

1/4", 5/2 - 5/3, IN LINE interface, pneumatically operated



| Standard executions          |        |        |         |
|------------------------------|--------|--------|---------|
| Version                      | Symbol | Code   | Item    |
| 5/2 pilot/spring             |        | 037001 | AX1P250 |
| 5/2 pilot/pilot              |        | 037024 | AX1P251 |
| 5/2 pilot/pilot differential |        | 037025 | AX1P252 |
| 5/3 closed centres           |        | 037026 | AX1P270 |
| 5/3 open centres             |        | 037027 | AX1P271 |
| 5/3 pressurised centres      |        | 037028 | AX1P272 |



*New*

New series of "AX" valves with functions 5/2 - 5/3 connections in line on the body and pneumatic pilot.

They are manufactured in AISI 316L stainless steel, especially suitable in the food, chemical, pharmaceutical, Oil & Gas and mining industry.

AX valves are manufactured according to 2014/34/EU Directive to be used in potentially explosive environment.

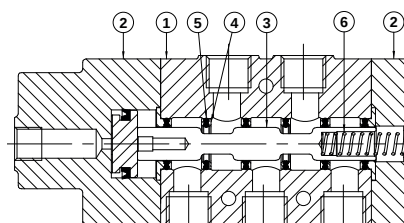


II 2Gc IIB T5  
II 2Dc T100°C

| Code key                                                |               |                             |                                                                                                                                 |               |
|---------------------------------------------------------|---------------|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------|
| Series                                                  | Actuation     | Size                        | Function                                                                                                                        | Option        |
| AX1 = Standard<br>AXX1* = Completely in stainless steel | P = pneumatic | 2 = 1/4 Gas<br>2N = 1/4 NPT | 50 = 5/2 pilot/spring<br>51 = 5/2 pilot/pilot<br>52 = 5/2 pilot/pilot differential<br>70 = 5/3 CC<br>71 = 5/3 OC<br>72 = 5/3 PC | V = Seals FKM |

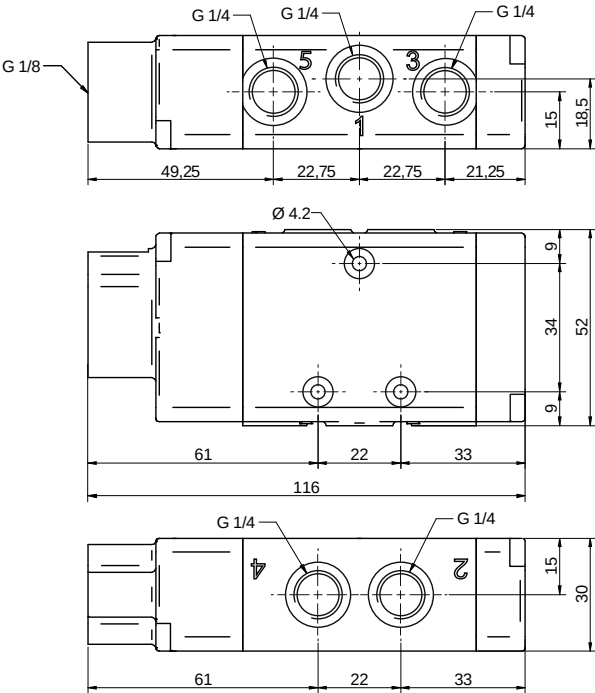
\*On request

| Technical data           |                                                                                                   |                                                                                |                           |
|--------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------|
| Fluid                    | Compressed filtered air with or without lubrication. Lubrication, if started, must be continued.  |                                                                                |                           |
| Threaded connection      | 1/4 Gas - 1/4 NPT                                                                                 |                                                                                |                           |
| Pressure range           | Spring return: 2,5 ÷ 12 bar                                                                       | Bistable: 1 ÷ 12 bar                                                           | 3 positions: 2.5 ÷ 12 bar |
| Temperature range        | -25°C ÷ +70°C (standard)<br>-10°C ÷ +90°C (V)                                                     |                                                                                |                           |
| Protection grade         | -                                                                                                 |                                                                                |                           |
| Ø Orifice                | 8 mm                                                                                              |                                                                                |                           |
| Flow                     | 1.100 NI/min at 6 bar with ΔP 1 bar                                                               |                                                                                |                           |
| Mounting                 | In any position (vertical assembly is not recommended for bistable valves subjected to vibration) |                                                                                |                           |
| Response time (at 6 bar) | Energising: - ms                                                                                  | Energising: - ms                                                               | Energising: - ms          |
|                          | De-energising: - ms                                                                               | De-energising: - ms                                                            | De-energising: - ms       |
| Materials                | (1) Body:                                                                                         | Stainless steel AISI 316L                                                      |                           |
|                          | (2) Cover:                                                                                        | Stainless steel AISI 316L                                                      |                           |
|                          | (3) Spool:                                                                                        | Hard aluminium anodized (AX1 series)<br>Stainless steel AISI 316 (AXX1 series) |                           |
|                          | (4) Distancers:                                                                                   | Ixef 1022 (AX1 series)<br>Stainless steel AISI 316 (AXX1 series)               |                           |
|                          | (5) Seals:                                                                                        | Hydrogenate Nitrile Butadine Rubber (HNBR)                                     |                           |
|                          | (6) Spring:                                                                                       | Stainless steel                                                                |                           |

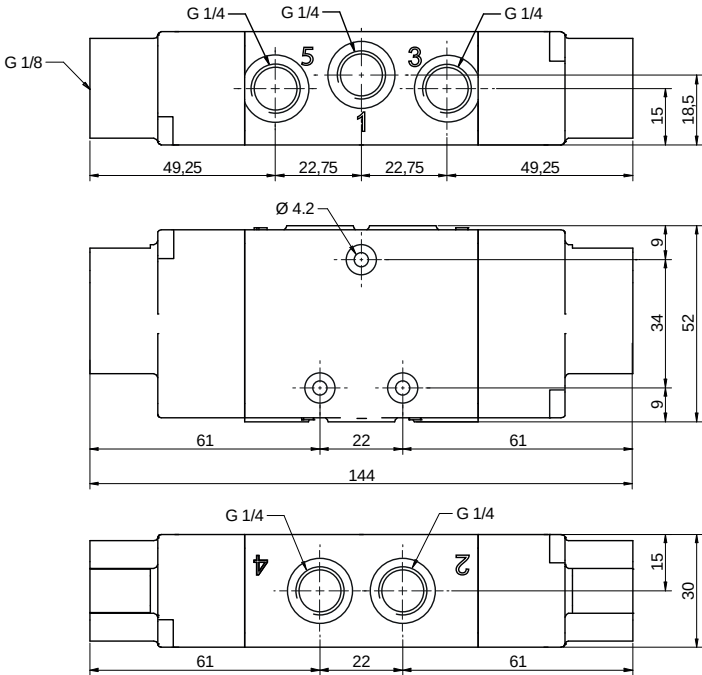


# Valves series AX1

1/4", 5/2 - 5/3, IN LINE interface, pneumatically operated



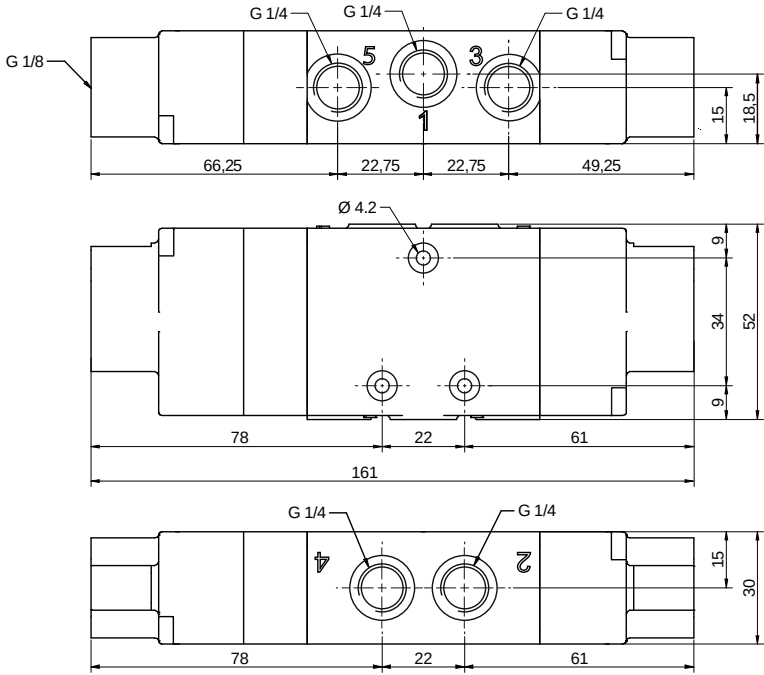
| Version          | Symbol | Code   | Item    |
|------------------|--------|--------|---------|
| 5/2 pilot/spring |        | 037001 | AX1P250 |



| Version                      | Symbol | Code   | Item    |
|------------------------------|--------|--------|---------|
| 5/2 pilot/pilot              |        | 037024 | AX1P251 |
| 5/2 pilot/pilot differential |        | 037025 | AX1P252 |

# Valves series AX1

1/4", 5/2 - 5/3, IN LINE interface, pneumatically operated



| Version                 | Symbol | Code   | Item    |
|-------------------------|--------|--------|---------|
| 5/3 closed centres      |        | 037026 | AX1P270 |
| 5/3 open centres        |        | 037027 | AX1P271 |
| 5/3 pressurised centres |        | 037028 | AX1P272 |



# Valves series AX1

## 1/4", 3/2 - 5/2, NAMUR interface, electrically operated



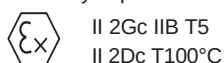
| Standard executions   |        |        |          |
|-----------------------|--------|--------|----------|
| Version               | Symbol | Code   | Item     |
| 3/2 NC                |        | 037029 | AX1NE230 |
| 3/2 solenoid/solenoid |        | 037030 | AX1NE232 |
| 5/2 solenoid/spring   |        | 037008 | AX1NE250 |
| 5/2 solenoid/solenoid |        | 037031 | AX1NE251 |



New series of "AX" valves with functions 3/2 - 5/2 connections NAMUR on the body, electric pilot.

They are manufactured in AISI 316L stainless steel, especially suitable in the food, chemical, pharmaceutical, Oil & Gas and mining industry.

AX valves are manufactured according to 2014/34/EU Directive to be used in potentially explosive environment.



Coils and connectors have to be ordered separately:

For the coils type ASA12... see page 2.200.1  
 For the coils type ASA2... see page 2.200.10  
 For the coils type ASA34... (only for EG/KG) see page 2.200.30  
 For connector see what suggested for the coil

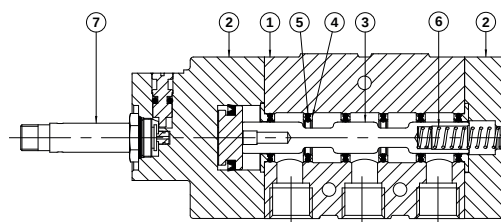
**For the ATEX valves with coils Ex see version XX-XA-XB-XC-XD from page 5.81.1**

| Code key                                                        |                                            |                             |                                                                                                     |               |
|-----------------------------------------------------------------|--------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------|---------------|
| Series                                                          | Actuation                                  | Size                        | Function                                                                                            | Option        |
| AX1N = NAMUR<br>AXX1N* = NAMUR<br>Completely in stainless steel | E = electrical Ø9<br>EG** = electrical Ø13 | 2 = 1/4 Gas<br>2N = 1/4 NPT | 30 = 3/2 NC<br>32 = 3/2 solenoid/solenoid<br>50 = 5/2 solenoid/spring<br>51 = 5/2 solenoid/solenoid | V = Seals FKM |

\*On request

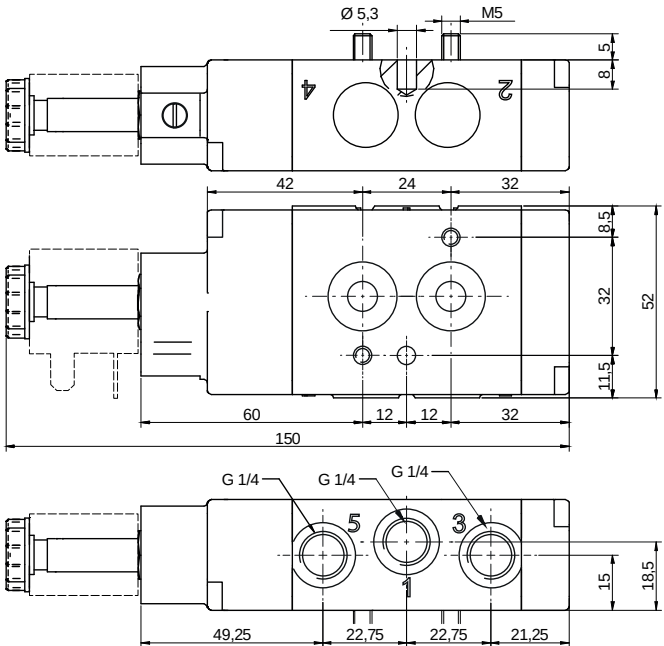
\*\* For actuation EG use coils type ASA34

| Technical data                |                 |                                                                                                   |                           |
|-------------------------------|-----------------|---------------------------------------------------------------------------------------------------|---------------------------|
| Fluid                         |                 | Compressed filtered air with or without lubrication. Lubrication, if started, must be continued.  |                           |
| Threaded connection           |                 | 1/4 Gas - 1/4 NPT                                                                                 |                           |
| Pressure range                | Standard        | Spring return: 2,5 ÷ 10 bar (E)                                                                   | Bistable: 1 ÷ 10 bar (E)  |
|                               | High pressure   | Spring return: 2,5 ÷ 12 bar (EG)                                                                  | Bistable: 1 ÷ 12 bar (EG) |
| Minimum external air pressure |                 | 1,5 bar (K - KG)                                                                                  |                           |
| Temperature range             |                 | -25°C ÷ +70°C (standard)<br>-10°C ÷ +90°C (V)                                                     |                           |
| Protection grade              |                 | -                                                                                                 |                           |
| Ø Orifice                     |                 | 8 mm                                                                                              |                           |
| Flow                          |                 | 1.100 NI/min at 6 bar with ΔP 1 bar                                                               |                           |
| Mounting                      |                 | In any position (vertical assembly is not recommended for bistable valves subjected to vibration) |                           |
| Manual override               |                 | Bistable                                                                                          |                           |
| Response time (at 6 bar)      |                 | Energising: - ms                                                                                  | Energising: - ms          |
|                               |                 | De-energising: - ms                                                                               | De-energising: - ms       |
| Materials                     | (1) Body:       | Stainless steel AISI 316L                                                                         |                           |
|                               | (2) Cover:      | Stainless steel AISI 316L                                                                         |                           |
|                               | (3) Spool:      | Hard aluminium anodized (AX1 series)<br>Stainless steel AISI 316 (AXX1 series)                    |                           |
|                               | (4) Distancers: | Ixef 1022 (AX1 series)<br>Stainless steel AISI 316 (AXX1 series)                                  |                           |
|                               | (5) Seals:      | Hydrogenate Nitrile Butadine Rubber (HNBR)                                                        |                           |
|                               | (6) Spring:     | Stainless steel                                                                                   |                           |
|                               | (7) Operator:   | Stainless steel                                                                                   |                           |

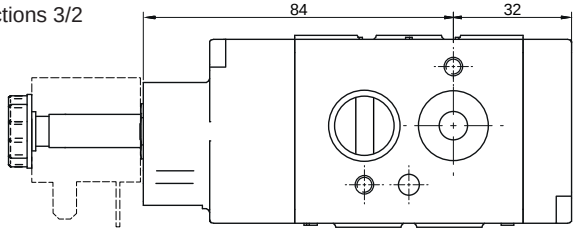


# Valves series AX1

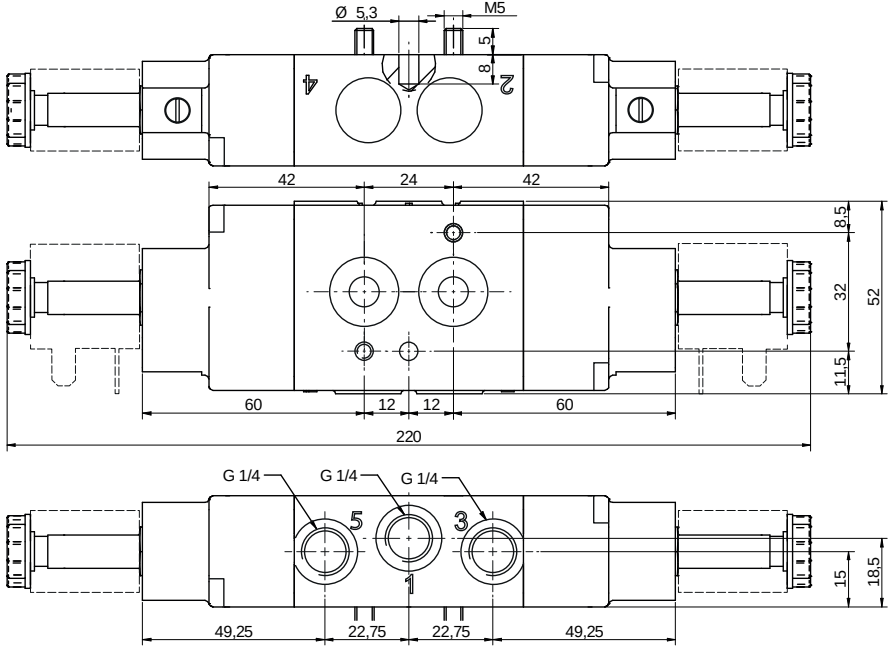
1/4", 3/2 - 5/2, NAMUR interface, electrically operated



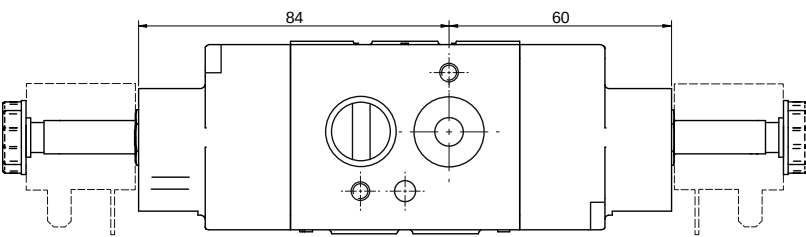
Functions 3/2



| Version             | Symbol | Code   | Item     |
|---------------------|--------|--------|----------|
| 3/2 NC              |        | 037029 | AX1NE230 |
| 5/2 solenoid/spring |        | 037008 | AX1NE250 |



Functions 3/2



| Version               | Symbol | Code   | Item     |
|-----------------------|--------|--------|----------|
| 3/2 solenoid/solenoid |        | 037030 | AX1NE232 |
| 5/2 solenoid/solenoid |        | 037031 | AX1NE251 |

# Valves series AX1 - Non-sparking coil Ex nA 1/4", 3/2 - 5/2 - 5/3, IN LINE and NAMUR interface, electrically operated Ex nA



| Standard executions                |        |                                  |
|------------------------------------|--------|----------------------------------|
| Version                            | Symbol | Code                             |
| 3/2 NC                             |        | For code key see the table below |
| 3/2 NO                             |        |                                  |
| 3/2 solenoid/solenoid              |        |                                  |
| 5/2 solenoid/spring                |        |                                  |
| 5/2 solenoid/solenoid              |        |                                  |
| 5/2 solenoid/solenoid differential |        |                                  |
| 5/3 closed centres                 |        |                                  |
| 5/3 open centres                   |        |                                  |
| 5/3 pressurised centres            |        |                                  |



New series of "AX" valves with functions 3/2 - 5/2 - 5/3 connection in line on the body or NAMUR. Electric and electric servo pilot. They are manufactured in AISI 316L stainless steel, especially suitable in the food, chemical, pharmaceutical, Oil & Gas and mining industry. AX valves are manufactured according to 2014/34/EU Directive to be used in potentially explosive environment. Solenoid operator with a special coil for pneumatic application in potentially explosive environment (group II).

Solenoid system is conforming to 2014/34/EU Directive, certified:



II 3G Ex nA IIC T5 Gc X  
II 3D Ex tc IIIC T95°C Dc X IP65

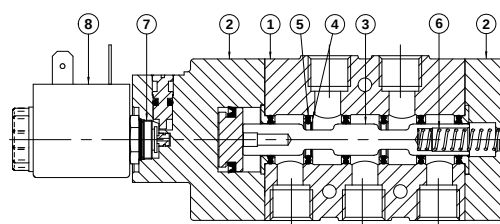
Connectors have to be ordered separately:

For connector type A12209N/ATEX

see page 2.210.50

| Code key                                                                                                                |                                                           |                             |                                                                                                                                                                                                            |                                                                  |                                                                              |
|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------------------|
| Series                                                                                                                  | Actuation                                                 | Size                        | Function                                                                                                                                                                                                   | Hazardous areas                                                  | Voltages                                                                     |
| AX1 = Standard<br>AXX1* = Completely in stainless steel<br>AX1N = NAMUR<br>AXX1N* = NAMUR Completely in stainless steel | E = electrical Ø9<br>K = electrical Ø9 external air pilot | 2 = 1/4 Gas<br>2N = 1/4 NPT | 30 = 3/2 NC<br>31 = 3/2 NO<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 CC<br>71 = 5/3 OC<br>72 = 5/3 PC | XX = II 3G Ex nA IIC T5 Gc X<br>II 3D Ex tc IIIC T95°C Dc X IP65 | B = 12 VDC<br>C = 24 VDC *<br>F = 24 VAC *<br>I = 110 VAC *<br>O = 220 VAC * |
| * On request                                                                                                            |                                                           |                             |                                                                                                                                                                                                            |                                                                  | * = Standard voltages                                                        |

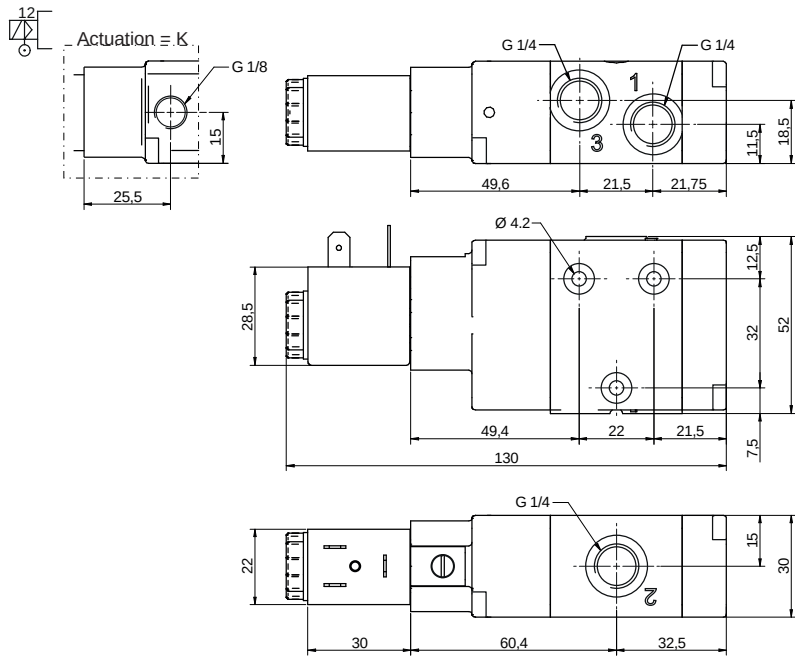
| Technical data            |                 |                                                                                                   |         |                      |                           |            |
|---------------------------|-----------------|---------------------------------------------------------------------------------------------------|---------|----------------------|---------------------------|------------|
| Fluid                     |                 | Compressed filtered air with or without lubrication. Lubrication, if started, must be continued.  |         |                      |                           |            |
| Threaded connection       |                 | 1/4 Gas - 1/4 NPT                                                                                 |         |                      |                           |            |
| Pressure range            |                 | Spring return: 2,5 ÷ 10 bar                                                                       |         | Bistable: 1 ÷ 10 bar | 3 positions: 2.5 ÷ 10 bar |            |
| Temperature range         |                 | -15°C ÷ +50°C                                                                                     |         |                      |                           |            |
| Protection grade          |                 | -                                                                                                 |         |                      |                           |            |
| Ø Orifice                 |                 | 8 mm                                                                                              |         |                      |                           |            |
| Flow                      |                 | 1.100 Nl/min at 6 bar with ΔP 1 bar                                                               |         |                      |                           |            |
| Mounting                  |                 | In any position (vertical assembly is not recommended for bistable valves subjected to vibration) |         |                      |                           |            |
| Manual override           |                 | Bistable                                                                                          |         |                      |                           |            |
| Electrical characteristic | Nominal voltage | 12 VDC                                                                                            | 24 VDC  | 24 VAC               | 110 VAC                   | 220 VAC    |
|                           | Frequency       | -                                                                                                 | -       | 50 / 60 Hz           | 50 / 60 Hz                | 50 / 60 Hz |
|                           | Nominal current | 0.250 A                                                                                           | 0.120 A | 0.208 A              | 0.045 A                   | -0.023 A   |
|                           | Nominal power   | 3 W                                                                                               | 3 W     | 5 VA                 | 5 VA                      | 5 VA       |
|                           | Duty cycle      | 100% ED                                                                                           |         |                      |                           |            |
|                           | Temp. class     | T5                                                                                                |         |                      |                           |            |
| Response time (at 6 bar)  |                 | Energising: - ms                                                                                  |         | Energising: - ms     | Energising: - ms          |            |
|                           |                 | De-energising: - ms                                                                               |         | De-energising: - ms  | De-energising: - ms       |            |
| Materials                 | (1) Body:       | Stainless steel AISI 316L                                                                         |         |                      |                           |            |
|                           | (2) Cover:      | Stainless steel AISI 316L                                                                         |         |                      |                           |            |
|                           | (3) Spool:      | Hard anodized aluminium (AX series)<br>Stainless steel AISI 316 (AXX series)                      |         |                      |                           |            |
|                           | (4) Distancers: | Ixef 1022 (AX series)<br>Stainless steel AISI 316 (AXX series)                                    |         |                      |                           |            |
|                           | (5) Seals:      | Hydrogenate Nitrile Butadine Rubber (HNBR)                                                        |         |                      |                           |            |
|                           | (6) Spring      | Stainless steel                                                                                   |         |                      |                           |            |
|                           | (7) Operator:   | Stainless steel                                                                                   |         |                      |                           |            |
|                           | (8) Coil:       | Thermoset resin                                                                                   |         |                      |                           |            |





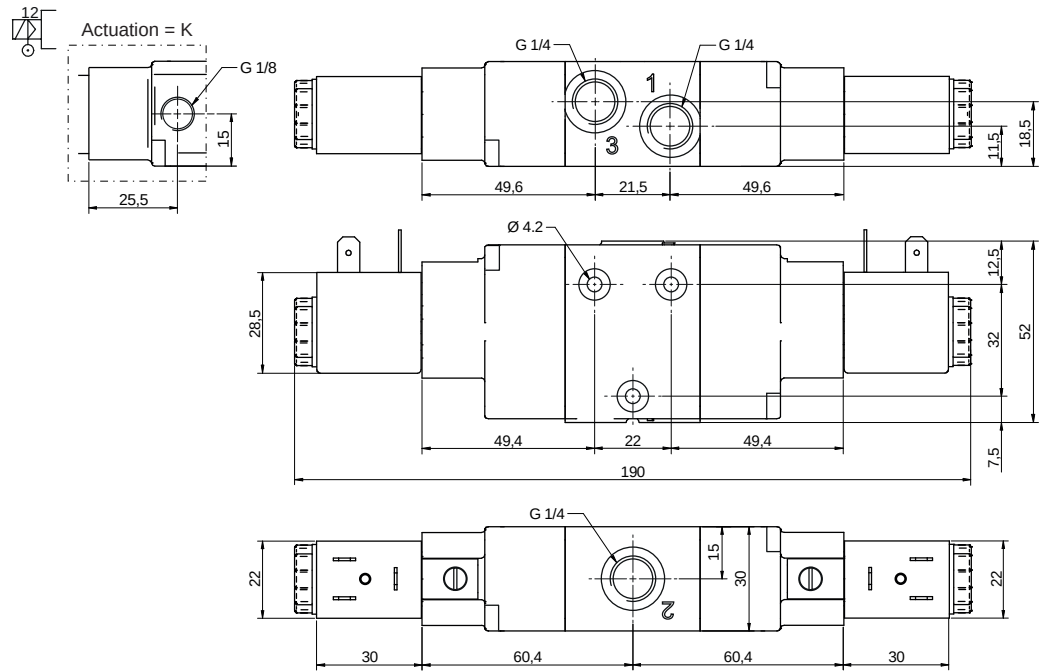
# Valves series AX1 - Non sparking coil Ex nA

1/4", 3/2 - 5/2 - 5/3, IN LINE interface, electrically operated Ex nA



| Version                      | Symbol | Code | Item       |
|------------------------------|--------|------|------------|
| 3/2 NC                       |        |      | AX1E230XX* |
| 3/2 NO                       |        |      | AX1E231XX* |
| 3/2 NC<br>external air pilot |        |      | AX1K230XX* |

\* For coil voltage: see code key at page 5.81.1

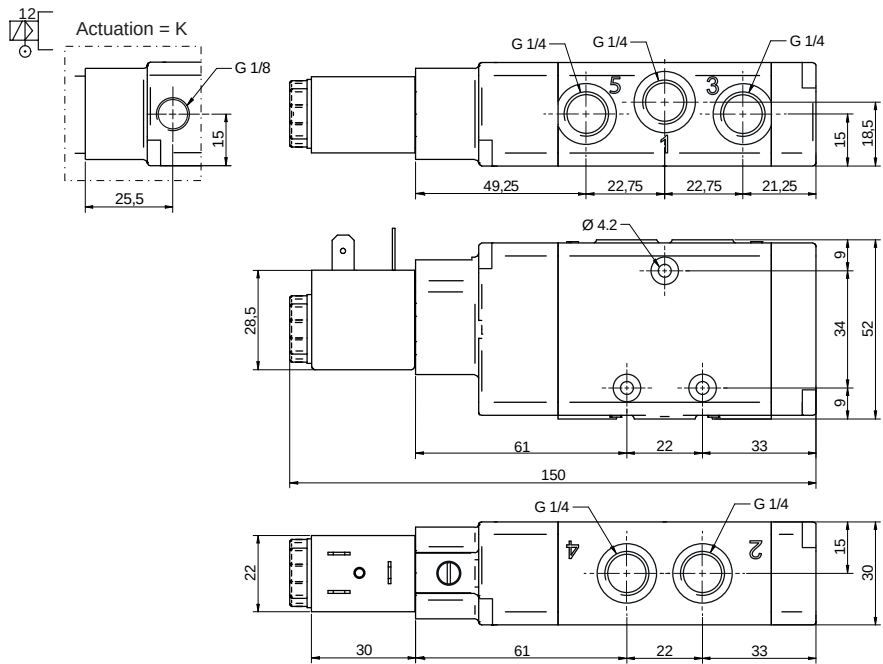


| Version                                     | Symbol | Code | Item       |
|---------------------------------------------|--------|------|------------|
| 3/2 solenoid/solenoid                       |        |      | AX1E232XX* |
| 3/2 solenoid/solenoid<br>external air pilot |        |      | AX1K232XX* |

\* For coil voltage: see code key at page 5.81.1

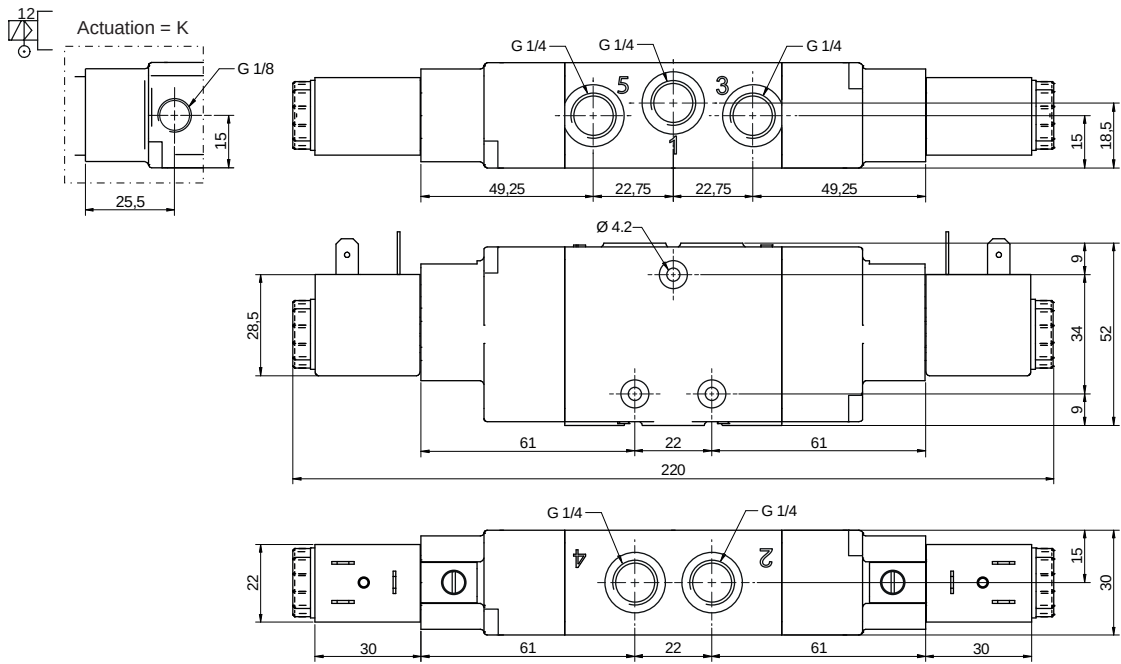
# Valves series AX1 - Non sparking coil Ex nA

1/4", 3/2 - 5/2 - 5/3, IN LINE interface, electrically operated Ex nA



| Version             | Symbol | Code | Item       |
|---------------------|--------|------|------------|
| 5/2 solenoid/spring |        |      | AX1E250XX* |

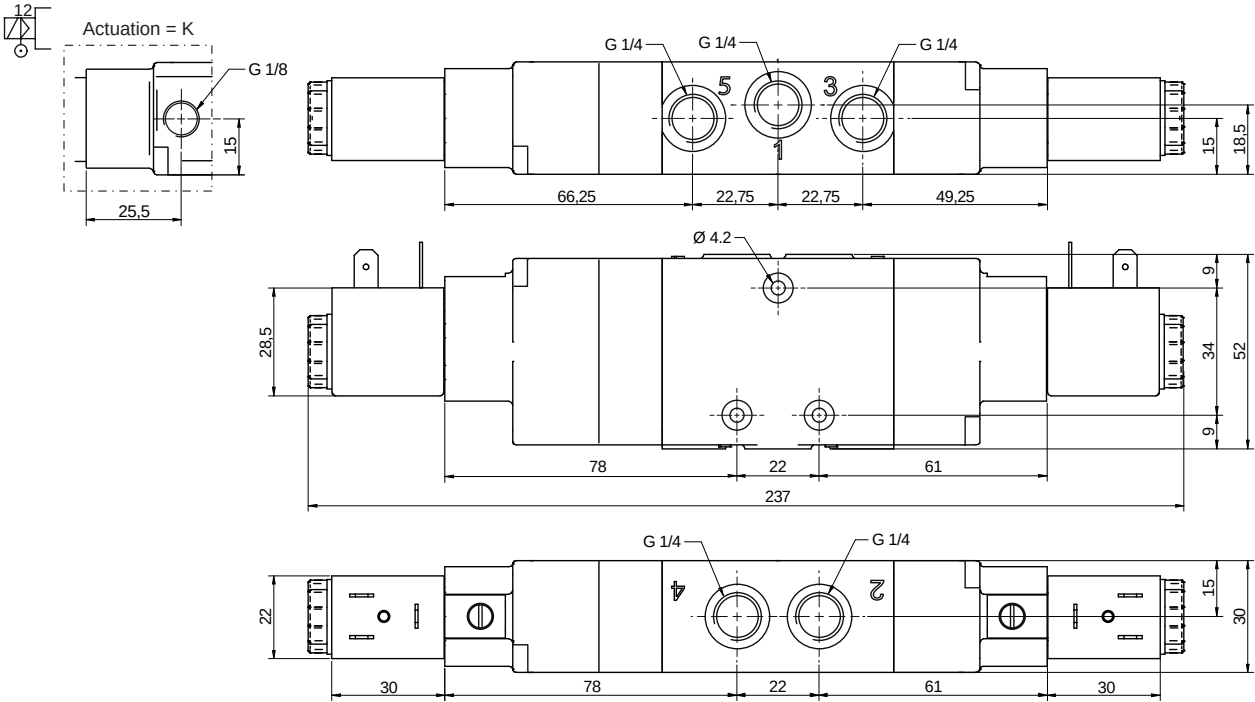
\* For coil voltage: see code key at page 5.81.1



| Version                            | Symbol | Code | Item       |
|------------------------------------|--------|------|------------|
| 5/2 solenoid/solenoid              |        |      | AX1E251XX* |
| 5/2 solenoid/solenoid differential |        |      | AX1E252XX* |

\* For coil voltage: see code key at page 5.81.1

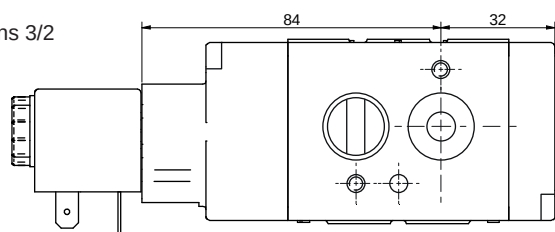
Valves series AX1 - Non sparking coil Ex nA  
 1/4", 3/2 - 5/2 - 5/3, IN LINE interface, electrically operated Ex nA



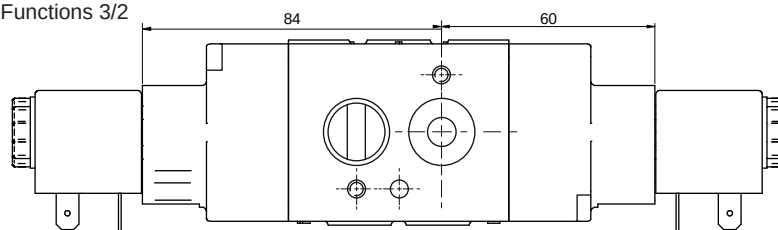
| Version                 | Symbol | Code | Item       |
|-------------------------|--------|------|------------|
| 5/3 closed centres      |        |      | AX1E270XX* |
| 5/3 open centres        |        |      | AX1E271XX* |
| 5/3 pressurised centres |        |      | AX1E272XX* |

| Version                                     | Symbol | Code | Item       |
|---------------------------------------------|--------|------|------------|
| 5/3 closed centres, external air pilot      |        |      | AX1K270XX* |
| 5/3 open centres, external air pilot        |        |      | AX1K271XX* |
| 5/3 pressurised centres, external air pilot |        |      | AX1K272XX* |

\* For coil voltage: see code key at page 5.81.1



\* For coil voltage: see code key at page 5.81.1



\* For coil voltage: see code key at page 5.81.1



# Valves series AX1 - Intrinsic safety Ex ia 1/4", 3/2 - 5/2 - 5/3, IN LINE and NAMUR interface, electrically operated Ex ia



| Standard executions                |        |                                        |
|------------------------------------|--------|----------------------------------------|
| Version                            | Symbol | Code                                   |
| 3/2 NC                             |        | For code key<br>see the table<br>below |
| 3/2 NO                             |        |                                        |
| 3/2 solenoid/solenoid              |        |                                        |
| 5/2 solenoid/spring                |        |                                        |
| 5/2 solenoid/solenoid              |        |                                        |
| 5/2 solenoid/solenoid differential |        |                                        |
| 5/3 closed centres                 |        |                                        |
| 5/3 open centres                   |        |                                        |
| 5/3 pressurised centres            |        |                                        |



New series of "AX" valves with functions 3/2 - 5/2 - 5/3 connection in line on the body or NAMUR. Electric and electric servo pilot. They are manufactured in AISI 316L stainless steel, especially suitable in the food, chemical, pharmaceutical, Oil & gas and mining industry. AX valves are manufactured according to 2014/34/EU Directive to be used in potentially explosive environment. Conforming to 2014/34/EU Directive, certified:

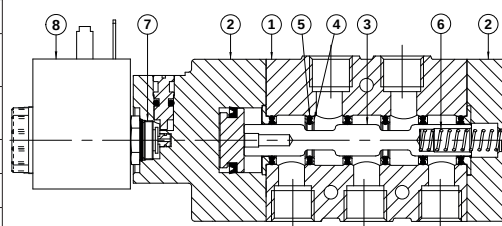
|  |                                                           |
|--|-----------------------------------------------------------|
|  | II 2G Ex ia IIC T6 Gb<br>II 2D Ex tb IIIC T80°C Db X IP65 |
|  | II 2G Ex ia IIC T4 Gb<br>II 2D Ex tb IIIC T80°C Db X IP65 |

Connectors have to be ordered separately:  
For connector type A18209N/ATEX

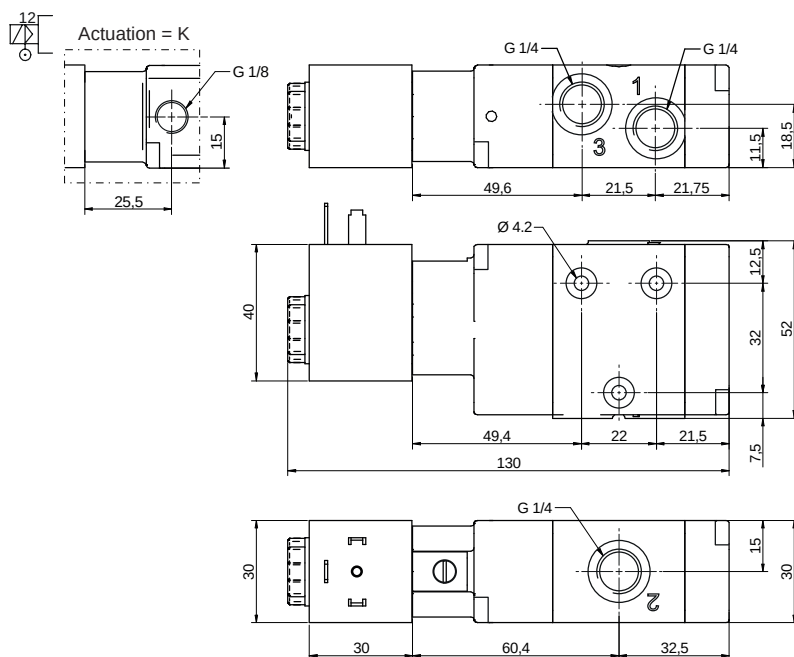
see page 2.210.50

| Code key                                                                                                                |                                                           |                             |                                                                                                                                                                                                            |                                                                                                                                   |            |
|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------|
| Series                                                                                                                  | Actuation                                                 | Size                        | Function                                                                                                                                                                                                   | Hazardous areas                                                                                                                   | Voltages   |
| AX1 = Standard<br>AXX1* = Completely in stainless steel<br>AX1N = NAMUR<br>AXX1N* = NAMUR Completely in stainless steel | E = electrical Ø9<br>K = electrical Ø9 external air pilot | 2 = 1/4 Gas<br>2N = 1/4 NPT | 30 = 3/2 NC<br>31 = 3/2 NO<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 CC<br>71 = 5/3 OC<br>72 = 5/3 PC | XA = II 2G Ex ia IIC T6 Gb<br>II 2D Ex tb IIIC T80°C Db X IP65<br>XA1 = II 2G Ex ia IIC T4 Gb<br>II 2D Ex tb IIIC T80°C Db X IP65 | C = 24 VDC |
| * On request                                                                                                            |                                                           |                             |                                                                                                                                                                                                            |                                                                                                                                   |            |

| Technical data                |                 |                                                                                                   |                     |                          |
|-------------------------------|-----------------|---------------------------------------------------------------------------------------------------|---------------------|--------------------------|
| Fluid                         |                 | Compressed filtered air with or without lubrication. Lubrication, if started, must be continued.  |                     |                          |
| Threaded connection           |                 | 1/4 Gas - 1/4 NPT                                                                                 |                     |                          |
| Pressure range                |                 | Spring return: 2,5 ÷ 8 bar                                                                        | Bistable: 1 ÷ 8 bar | 3 positions: 2,5 ÷ 8 bar |
| Minimum external air pressure |                 | 2 bar                                                                                             |                     |                          |
| Temperature range             |                 | -25°C ÷ +50°C                                                                                     |                     |                          |
| Protection grade              |                 | -                                                                                                 |                     |                          |
| Ø Orifice                     |                 | 8 mm                                                                                              |                     |                          |
| Flow                          |                 | 1.100 Nl/min at 6 bar with ΔP 1 bar                                                               |                     |                          |
| Mounting                      |                 | In any position (vertical assembly is not recommended for bistable valves subjected to vibration) |                     |                          |
| Manual override               |                 | Bistable                                                                                          |                     |                          |
| Electrical characteristic     | Nominal voltage | 21.6 ÷ 28 VDC                                                                                     | 21.6 ÷ 28 VDC       |                          |
|                               | Max voltage     | 28 VDC                                                                                            | 28 VDC              |                          |
|                               | Nominal current | 0.115 A (at 28 VDC)                                                                               | 0.115 A (at 28 VDC) |                          |
|                               | Nominal power   | 1.6 W (at 28 VDC)                                                                                 | 1.6 W (at 28 VDC)   |                          |
|                               | Duty cycle      | 100% ED                                                                                           | 100% ED             |                          |
|                               | Temp. class     | T6                                                                                                | T4                  |                          |
| Response time (at 6 bar)      |                 | Energising: - ms                                                                                  | Energising: - ms    | Energising: - ms         |
|                               |                 | De-energising: - ms                                                                               | De-energising: - ms | De-energising: - ms      |
| Materials                     | (1) Body:       | Stainless steel AISI 316L                                                                         |                     |                          |
|                               | (2) Cover:      | Stainless steel AISI 316L                                                                         |                     |                          |
|                               | (3) Spool:      | Hard aluminium anodized (AX series)<br>Stainless steel AISI 316 (AXX series)                      |                     |                          |
|                               | (4) Distancers: | Ixef 1022 (AX series)<br>Stainless steel AISI 316 (AXX series)                                    |                     |                          |
|                               | (5) Seals:      | Hydrogenate Nitrile Butadine Rubber (HNBR)                                                        |                     |                          |
|                               | (6) Spring:     | Stainless steel                                                                                   |                     |                          |
|                               | (7) Operator:   | Brass                                                                                             |                     |                          |
|                               | (8) Coil:       | Thermoset resin                                                                                   |                     |                          |

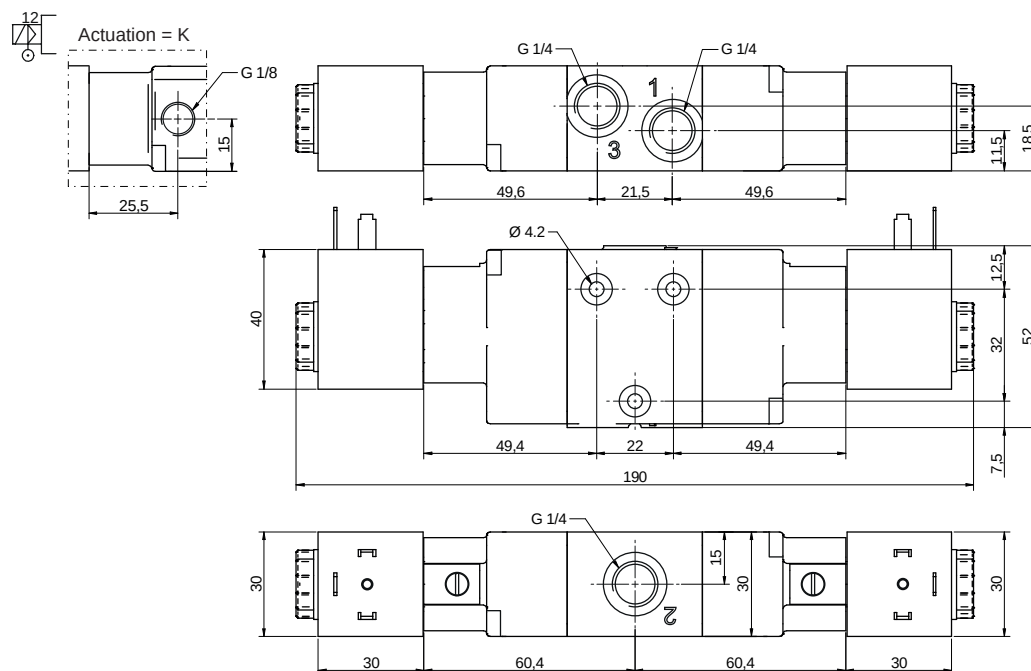


# Valves series AX1 - Intrinsic safety Ex ia 1/4", 3/2 - 5/2 - 5/3, IN LINE interface, electrically operated Ex ia



| Version                      | Symbol | Code | Item       |
|------------------------------|--------|------|------------|
| 3/2 NC                       |        |      | AX1E230XAC |
| 3/2 NO                       |        |      | AX1E231XAC |
| 3/2 NC<br>external air pilot |        |      | AX1K230XAC |

\* For coil voltage: see code key at page 5.82.1

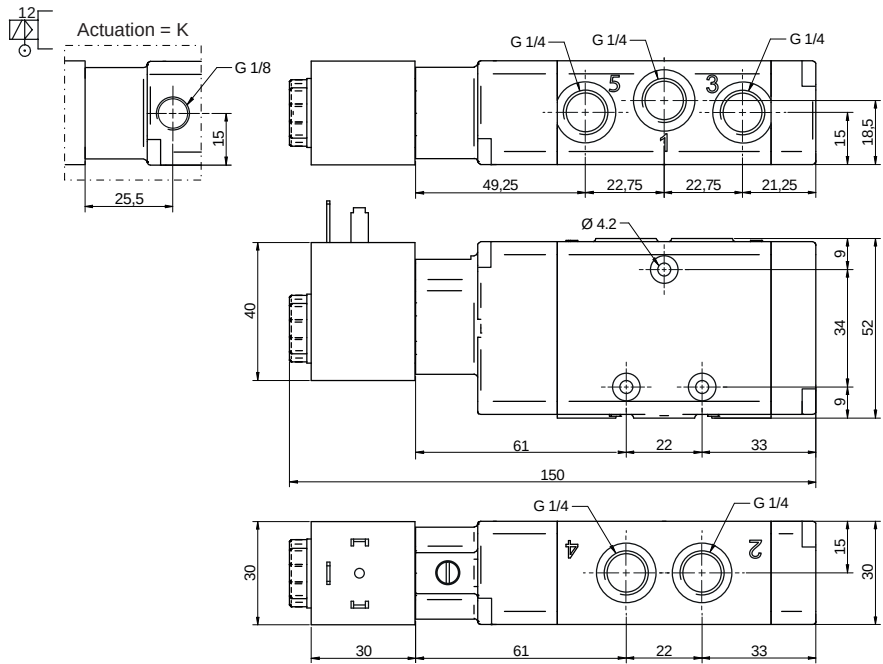


| Version                                     | Symbol | Code | Item       |
|---------------------------------------------|--------|------|------------|
| 3/2 solenoid/solenoid                       |        |      | AX1E232XAC |
| 3/2 solenoid/solenoid<br>external air pilot |        |      | AX1K232XAC |

\* For coil voltage: see code key at page 5.82.1

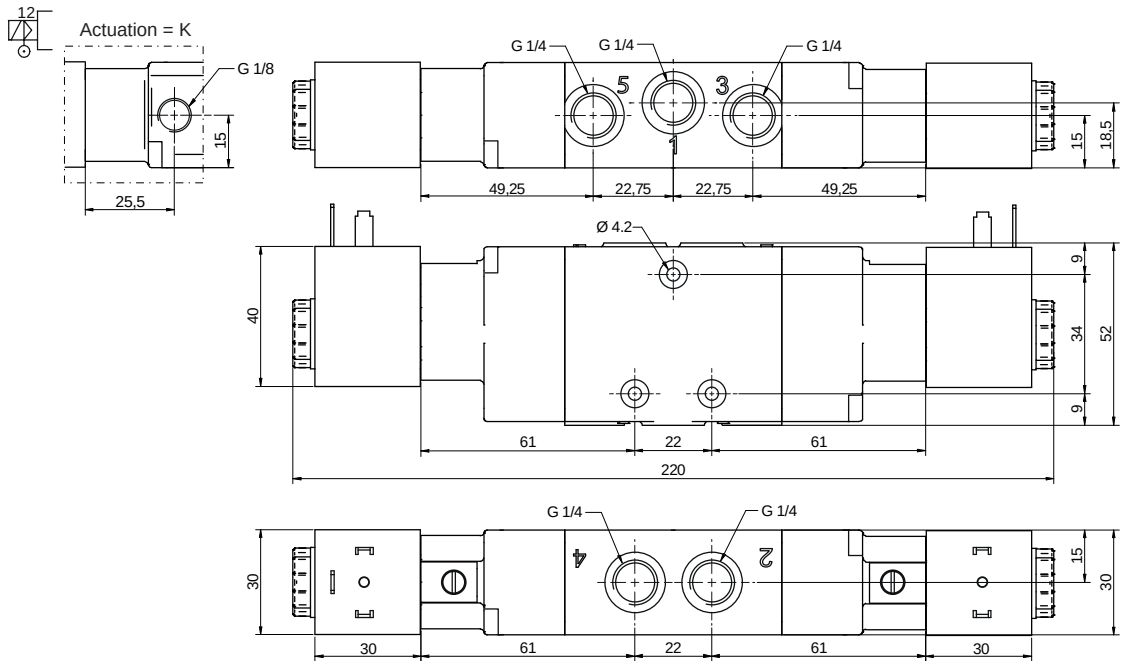
# Valves series AX1 - Intrinsic safety Ex ia

1/4", 3/2 - 5/2 - 5/3, IN LINE interface, electrically operated Ex ia



| Version             | Symbol | Code | Item       |
|---------------------|--------|------|------------|
| 5/2 solenoid/spring |        |      | AX1E250XAC |

\* For coil voltage: see code key at page 5.82.1

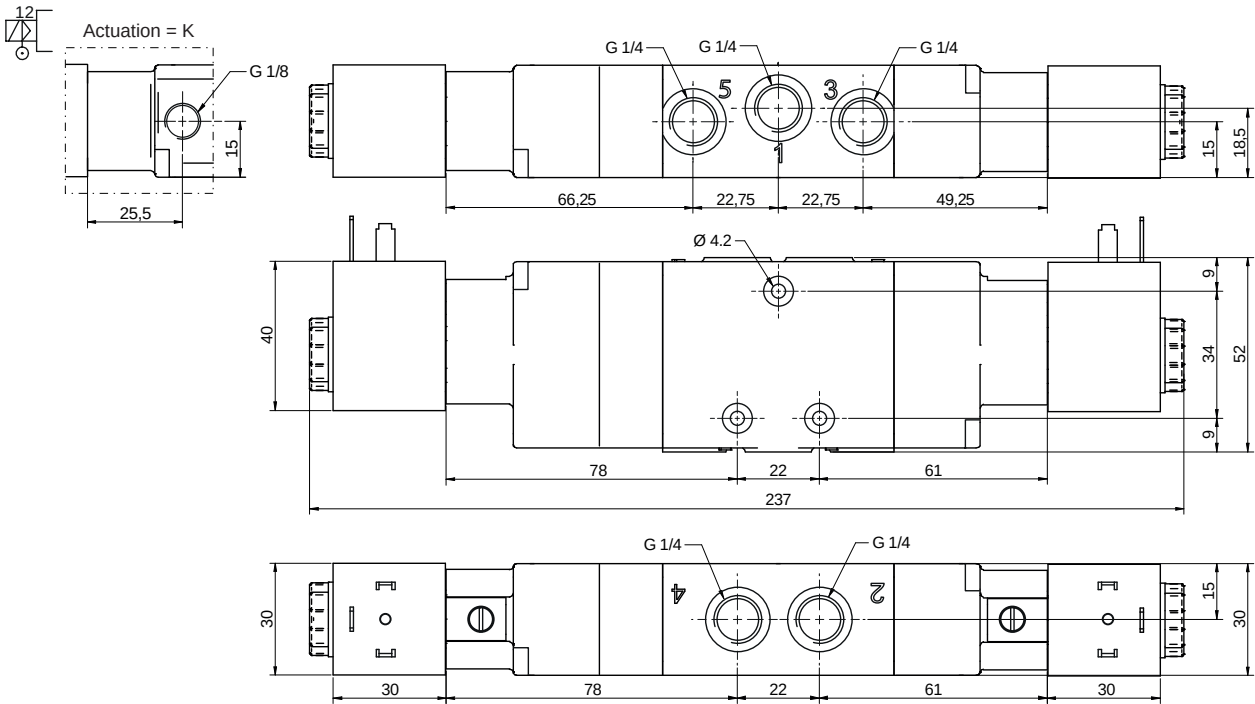


| Version                            | Symbol | Code | Item       |
|------------------------------------|--------|------|------------|
| 5/2 solenoid/solenoid              |        |      | AX1E251XAC |
| 5/2 solenoid/solenoid differential |        |      | AX1E252XAC |

\* For coil voltage: see code key at page 5.82.1



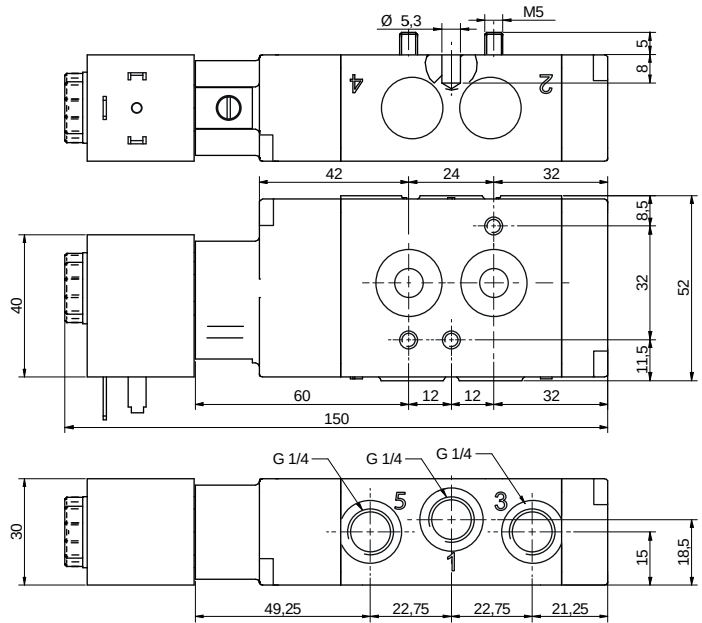
Valves series AX1 - Intrinsic safety Ex ia  
 1/4", 3/2 - 5/2 - 5/3, IN LINE interface, electrically operated Ex ia



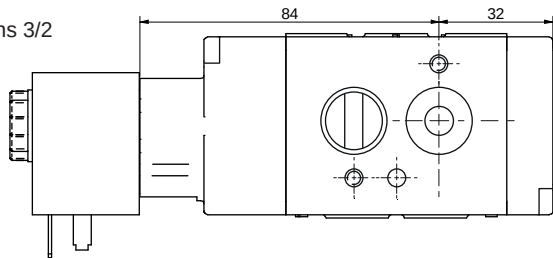
| Version                 | Symbol | Code | Item       |
|-------------------------|--------|------|------------|
| 5/3 closed centres      |        |      | AX1E270XAC |
| 5/3 open centres        |        |      | AX1E271XAC |
| 5/3 pressurised centres |        |      | AX1E272XAC |

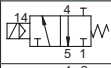
| Version                                     | Symbol | Code | Item       |
|---------------------------------------------|--------|------|------------|
| 5/3 closed centres, external air pilot      |        |      | AX1K270XAC |
| 5/3 open centres, external air pilot        |        |      | AX1K271XAC |
| 5/3 pressurised centres, external air pilot |        |      | AX1K272XAC |

\* For coil voltage: see code key at page 5.82.1

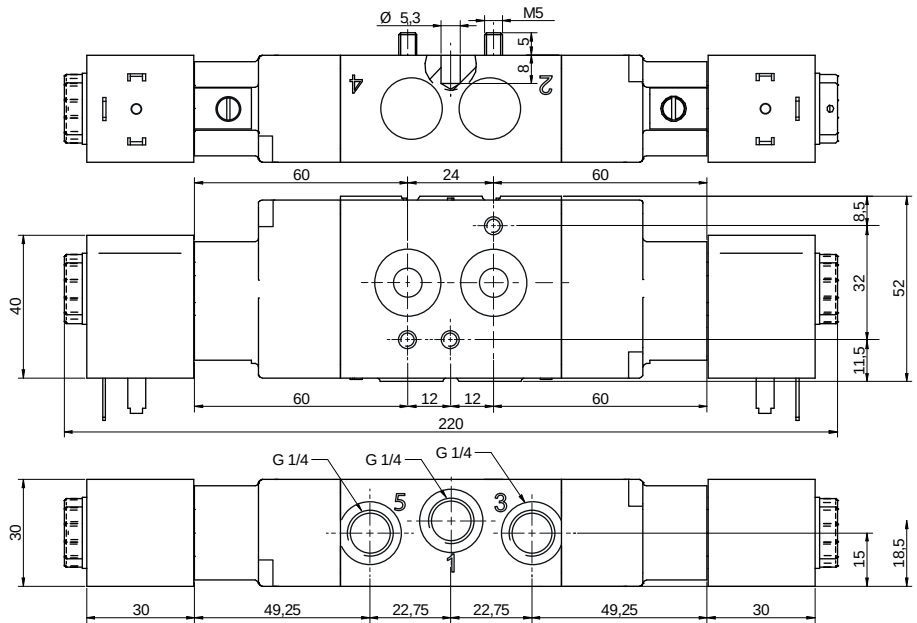


Functions 3/2

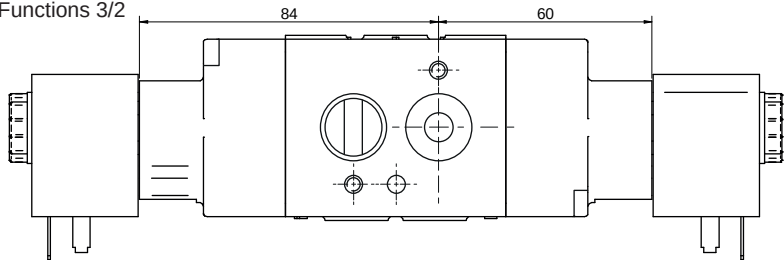


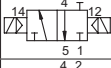
| Version             | Symbol                                                                                | Code | Item        |
|---------------------|---------------------------------------------------------------------------------------|------|-------------|
| 3/2 NC              |   |      | AX1NE230XAC |
| 5/2 solenoid/spring |  |      | AX1NE250XAC |

\* For coil voltage: see code key at page 5.82.1



Functions 3/2



| Version               | Symbol                                                                                | Code | Item        |
|-----------------------|---------------------------------------------------------------------------------------|------|-------------|
| 3/2 solenoid/solenoid |  |      | AX1NE232XAC |
| 5/2 solenoid/solenoid |  |      | AX1NE251XAC |

\* For coil voltage: see code key at page 5.82.1



# Valves series AX1 - Encapsulated coil Ex dm

## 1/4", 3/2 - 5/2 - 5/3, IN LINE and NAMUR interface, electrically operated Ex dm



| Standard executions                |        |                                  |
|------------------------------------|--------|----------------------------------|
| Version                            | Symbol | Code                             |
| 3/2 NC                             |        | For code key see the table below |
| 3/2 NO                             |        |                                  |
| 3/2 solenoid/solenoid              |        |                                  |
| 5/2 solenoid/spring                |        |                                  |
| 5/2 solenoid/solenoid              |        |                                  |
| 5/2 solenoid/solenoid differential |        |                                  |
| 5/3 closed centres                 |        |                                  |
| 5/3 open centres                   |        |                                  |
| 5/3 pressurised centres            |        |                                  |



New series of "AX" valves with functions 3/2 - 5/2 - 5/3 connection in line on the body or NAMUR. Electric and electric servo pilot.

They are manufactured in AISI 316L stainless steel, especially suitable in the food, chemical, pharmaceutical, Oil & Gas and mining industry.

AX valves are manufactured according to 2014/34/EU Directive to be used in potentially explosive environment.

Solenoid operator with a special coil for pneumatic application in potentially explosive environment (group II). The protection is assured by a thermal fuse that, in case of damage, disconnects the coil from power.

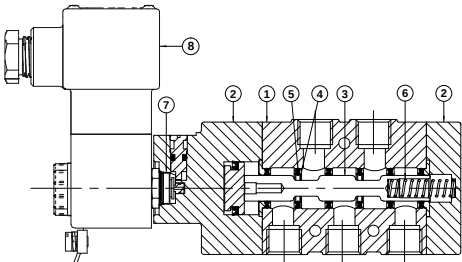
Solenoid system is conforming to 2014/34/EU Directive, certified:

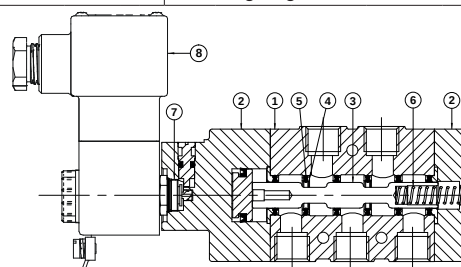


II 2G Ex db mb IIC T5 Gb

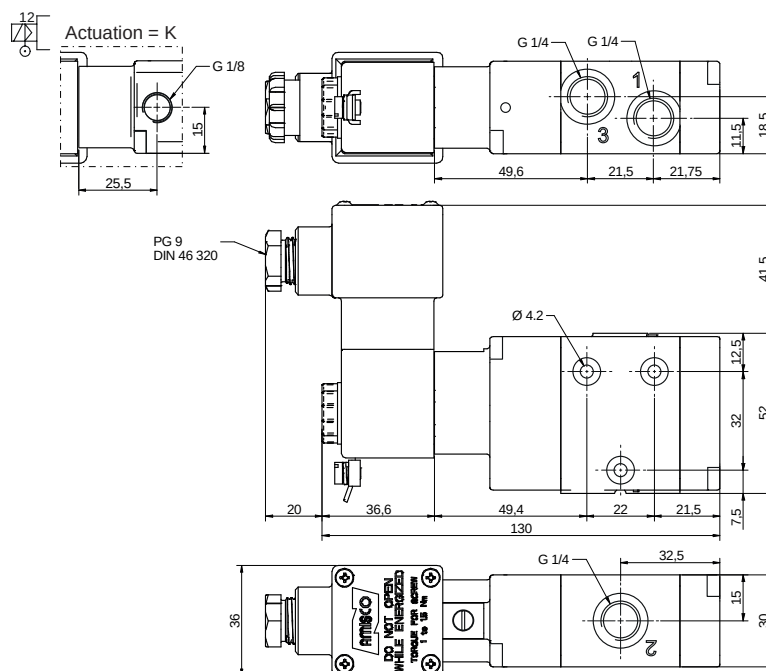
II 2D Ex tb IIIC T95°C Db IP66

| Code key                                                                                                                |                                                           |                             |                                                                                                                                                                                                            |                                                                 |                                                                                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Series                                                                                                                  | Actuation                                                 | Size                        | Function                                                                                                                                                                                                   | Hazardous areas                                                 | Voltages                                                                                                                                                                                                     |
| AX1 = Standard<br>AXX1* = Completely in stainless steel<br>AX1N = NAMUR<br>AXX1N* = NAMUR Completely in stainless steel | E = electrical Ø9<br>K = electrical Ø9 external air pilot | 2 = 1/4 Gas<br>2N = 1/4 NPT | 30 = 3/2 NC<br>31 = 3/2 NO<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 CC<br>71 = 5/3 OC<br>72 = 5/3 PC | XB = II 2G Ex db mb IIC T5 Gb<br>II 2D Ex tb IIIC T95°C Db IP66 | A = 6 VDC<br>B = 12 VDC<br>C = 24 VDC *<br>D = 48 VDC<br><br>E = 12 VAC<br>F = 24 VAC<br>G = 48 VAC<br>H = 100 VAC<br>I = 110 VAC<br>L = 115 VAC<br>M = 120 VAC<br>O = 220 VAC<br>P = 230 VAC<br>Q = 240 VAC |
| * On request                                                                                                            |                                                           |                             |                                                                                                                                                                                                            |                                                                 | * = Standard voltages                                                                                                                                                                                        |

| Technical data                |                 |                                                                                                   |         |         |         |                      |          |          |          |                           |          |          |          |          |          |
|-------------------------------|-----------------|---------------------------------------------------------------------------------------------------|---------|---------|---------|----------------------|----------|----------|----------|---------------------------|----------|----------|----------|----------|----------|
| Fluid                         |                 | Compressed filtered air with or without lubrication. Lubrication, if started, must be continued.  |         |         |         |                      |          |          |          |                           |          |          |          |          |          |
| Threaded connection           |                 | 1/4 Gas - 1/4 NPT                                                                                 |         |         |         |                      |          |          |          |                           |          |          |          |          |          |
| Pressure range                |                 | Spring return: 2,5 ÷ 10 bar                                                                       |         |         |         | Bistable: 1 ÷ 10 bar |          |          |          | 3 positions: 2,5 ÷ 10 bar |          |          |          |          |          |
| Minimum external air pressure |                 | 1.5 bar                                                                                           |         |         |         |                      |          |          |          |                           |          |          |          |          |          |
| Temperature range             |                 | -25°C ÷ +50°C                                                                                     |         |         |         |                      |          |          |          |                           |          |          |          |          |          |
| Protection grade              |                 | IP66                                                                                              |         |         |         |                      |          |          |          |                           |          |          |          |          |          |
| Ø Orifice                     |                 | 8 mm                                                                                              |         |         |         |                      |          |          |          |                           |          |          |          |          |          |
| Flow                          |                 | 1.100 NI/min at 6 bar with ΔP 1 bar                                                               |         |         |         |                      |          |          |          |                           |          |          |          |          |          |
| Mounting                      |                 | In any position (vertical assembly is not recommended for bistable valves subjected to vibration) |         |         |         |                      |          |          |          |                           |          |          |          |          |          |
| Manual override               |                 | Bistable                                                                                          |         |         |         |                      |          |          |          |                           |          |          |          |          |          |
| Electrical characteristic     | Nominal voltage | 6 VDC                                                                                             | 12 VDC  | 24 VDC  | 48 VDC  | 12 VAC               | 24VAC    | 48 VAC   | 100 VAC  | 110 VAC                   | 115 VAC  | 120 VAC  | 220 VAC  | 230 VAC  | 240 VAC  |
|                               | Frequency       | -                                                                                                 | -       | -       | -       | 50/60 Hz             | 50/60 Hz | 50/60 Hz | 50/60 Hz | 50/60 Hz                  | 50/60 Hz | 50/60 Hz | 50/60 Hz | 50/60 Hz | 50/60 Hz |
|                               | Nominal current | 0.510 A                                                                                           | 0.250 A | 0.125 A | 0.063 A | 0.270 A              | 0.133 A  | 0.067 A  | 0.032 A  | 0.029 A                   | 0.028 A  | 0.027 A  | 0.014 A  | 0.014 A  | 0.013 A  |
|                               | Nominal power   | 3W                                                                                                | 3W      | 3W      | 3W      | 3.2 VA               | 3.2 VA   | 3.2 VA   | 3.2 VA   | 3.2 VA                    | 3.2 VA   | 3.2 VA   | 3.2 VA   | 3.2 VA   | 3.2 VA   |
|                               | Duty cycle      | 100% ED                                                                                           |         |         |         |                      |          |          |          |                           |          |          |          |          |          |
|                               | Temp. class     | T5                                                                                                |         |         |         |                      |          |          |          |                           |          |          |          |          |          |
| Response time (at 6 bar)      |                 | Energising: - ms                                                                                  |         |         |         | Energising: - ms     |          |          |          | Energising: - ms          |          |          |          |          |          |
|                               |                 | De-energising: - ms                                                                               |         |         |         | De-energising: - ms  |          |          |          | De-energising: - ms       |          |          |          |          |          |
| Materials                     | (1) Body:       | Stainless steel AISI 316L                                                                         |         |         |         |                      |          |          |          |                           |          |          |          |          |          |
|                               | (2) Cover:      | Stainless steel AISI 316L                                                                         |         |         |         |                      |          |          |          |                           |          |          |          |          |          |
|                               | (3) Spool:      | Hard aluminium anodized (AX series)<br>Stainless steel AISI 316 (AXX series)                      |         |         |         |                      |          |          |          |                           |          |          |          |          |          |
|                               | (4) Distancers: | Ixef 1022 (AX series)<br>Stainless steel AISI 316 (AXX series)                                    |         |         |         |                      |          |          |          |                           |          |          |          |          |          |
|                               | (5) Seals:      | Hydrogenate Nitrile Butadine Rubber (HNBR)                                                        |         |         |         |                      |          |          |          |                           |          |          |          |          |          |
|                               | (6) Spring:     | Stainless steel                                                                                   |         |         |         |                      |          |          |          |                           |          |          |          |          |          |
|                               | (7) Operator:   | Stainless steel                                                                                   |         |         |         |                      |          |          |          |                           |          |          |          |          |          |
|                               | (8) Coil:       | Thermoset resin                                                                                   |         |         |         |                      |          |          |          |                           |          |          |          |          |          |
|                               |                 |               |         |         |         |                      |          |          |          |                           |          |          |          |          |          |

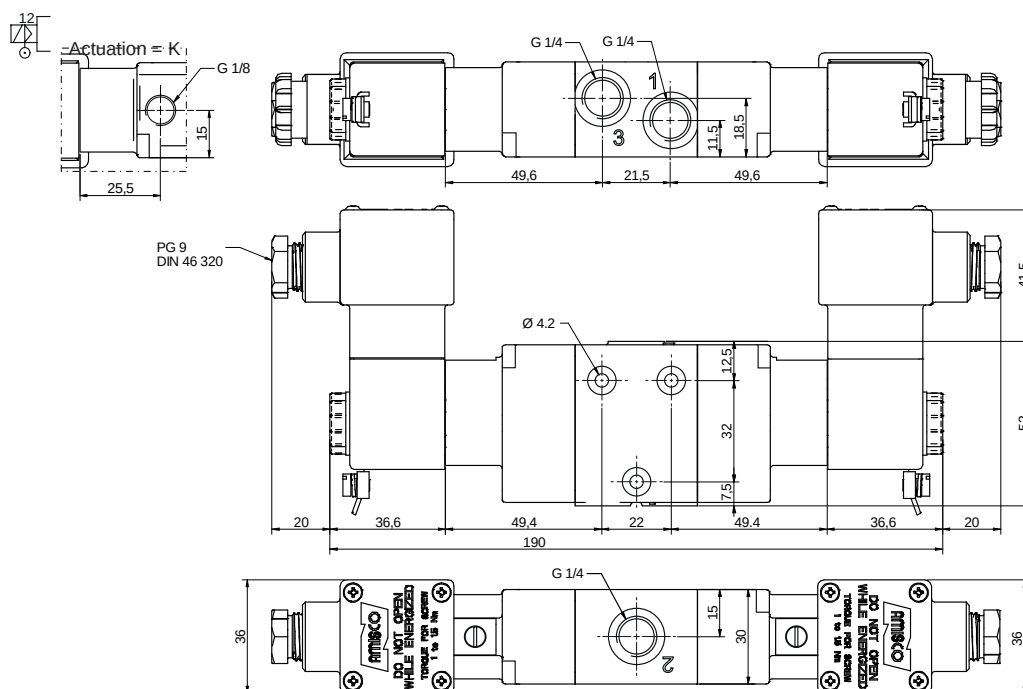


# Valves series AX1 - Encapsulated coil Ex dm 1/4", 3/2 - 5/2 - 5/3, IN LINE interface, electrically operated Ex dm



| Version                      | Symbol | Code | Item       |
|------------------------------|--------|------|------------|
| 3/2 NC                       |        |      | AX1E230XB* |
| 3/2 NO                       |        |      | AX1E231XB* |
| 3/2 NC<br>external air pilot |        |      | AX1K230XB* |

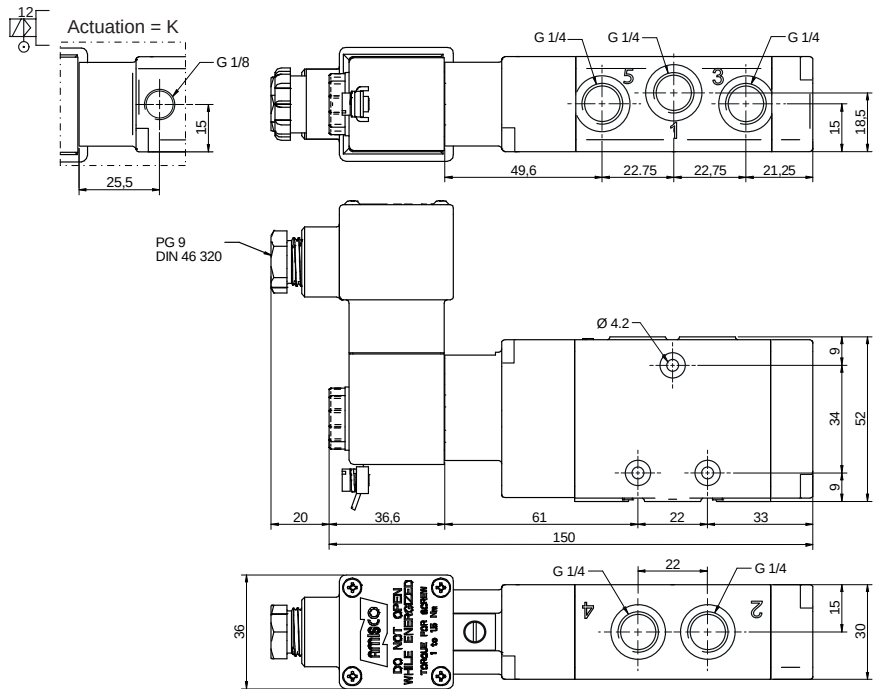
\* For coil voltage: see code key at page 5.83.1



| Version                                     | Symbol | Code | Item       |
|---------------------------------------------|--------|------|------------|
| 3/2 solenoid/solenoid                       |        |      | AX1E232XB* |
| 3/2 solenoid/solenoid<br>external air pilot |        |      | AX1K232XB* |

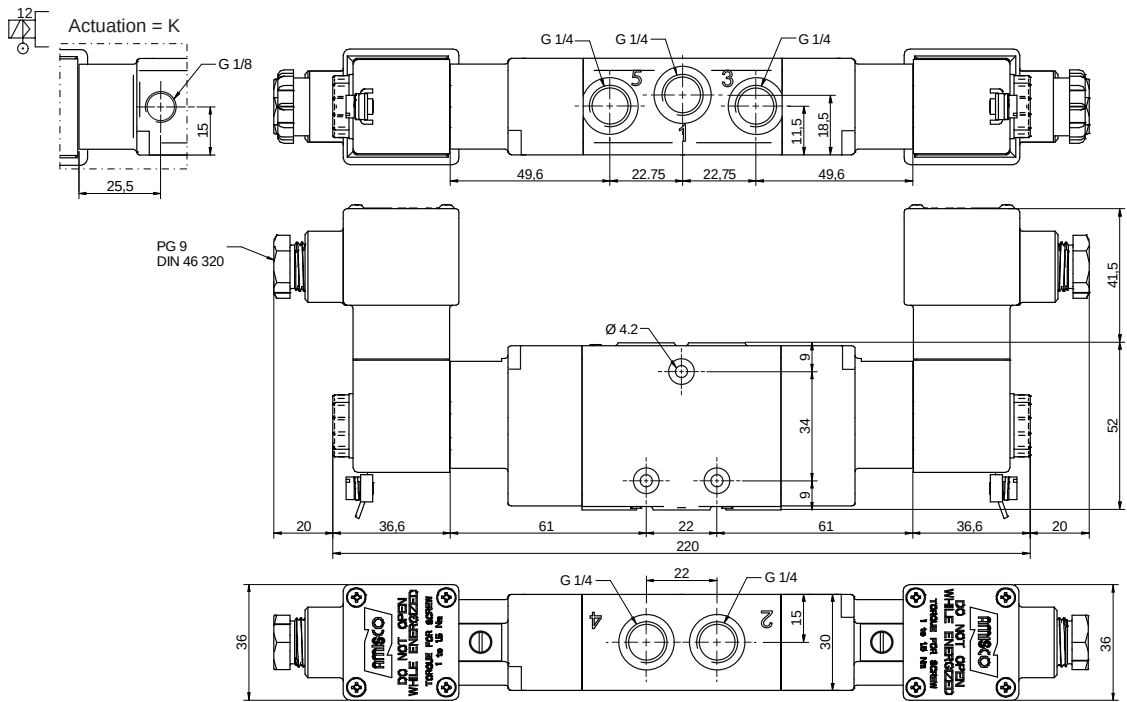
\* For coil voltage: see code key at page 5.83.1

# Valves series AX1 - Encapsulated coil Ex dm 1/4", 3/2 - 5/2 - 5/3, IN LINE interface, electrically operated Ex dm



| Version             | Symbol | Code | Item       |
|---------------------|--------|------|------------|
| 5/2 solenoid/spring |        |      | AX1E250XB* |

\* For coil voltage: see code key at page 5.83.1

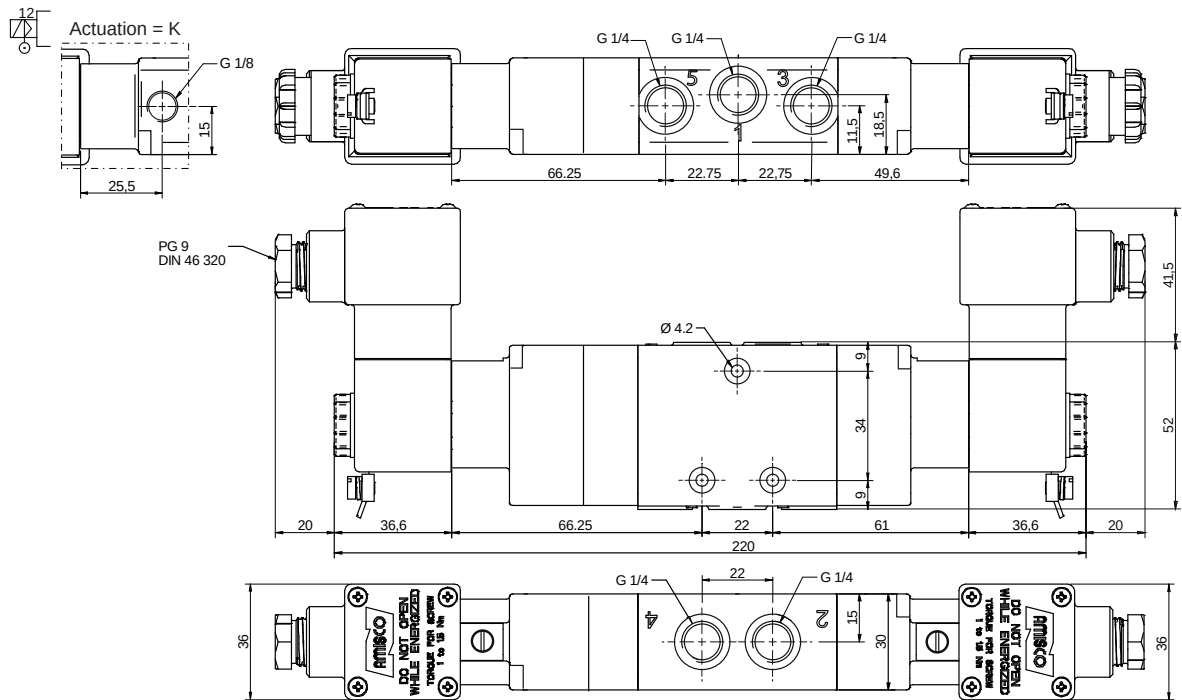


| Version                            | Symbol | Code | Item       |
|------------------------------------|--------|------|------------|
| 5/2 solenoid/solenoid              |        |      | AX1E251XB* |
| 5/2 solenoid/solenoid differential |        |      | AX1E252XB* |

\* For coil voltage: see code key at page 5.83.1

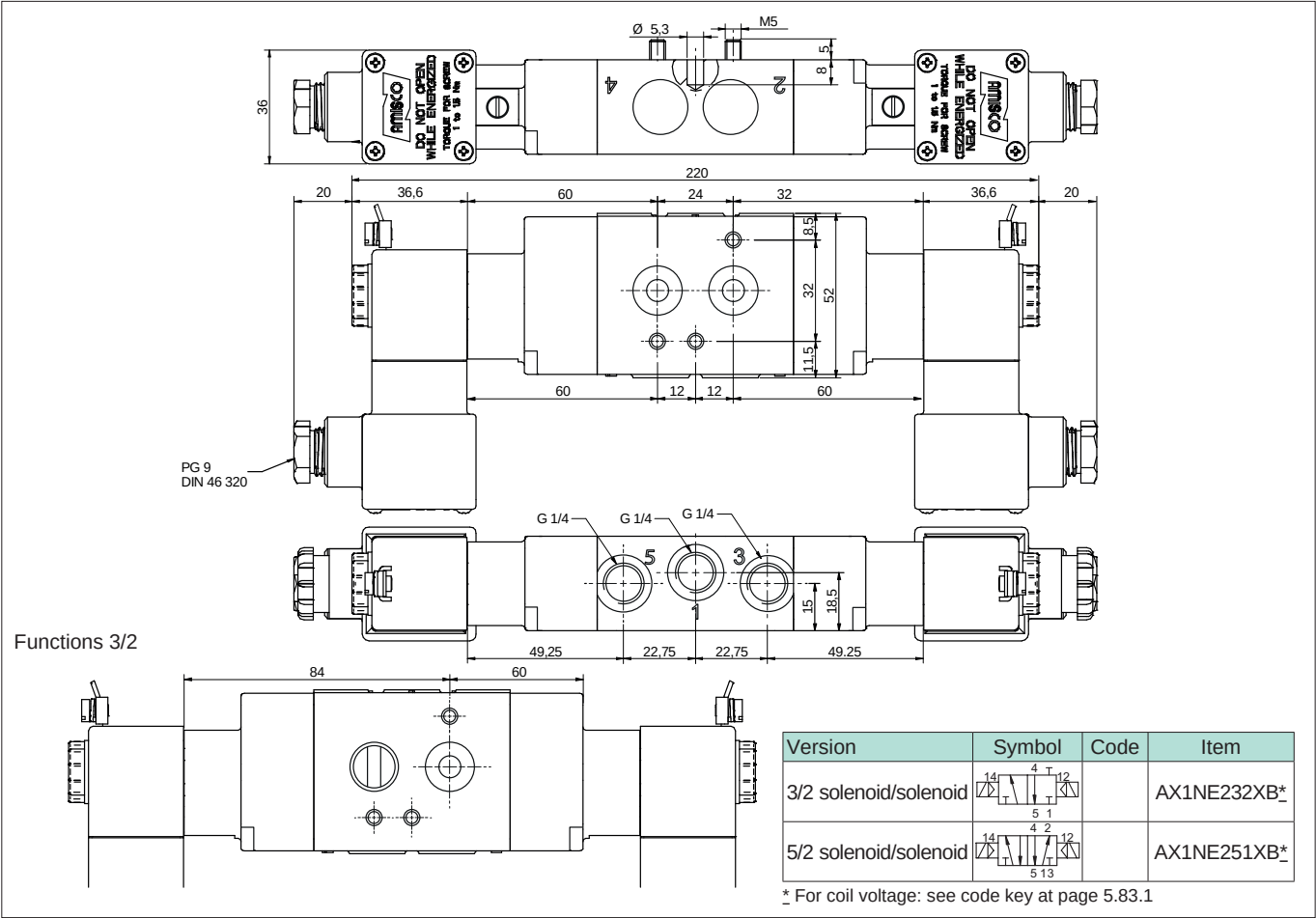
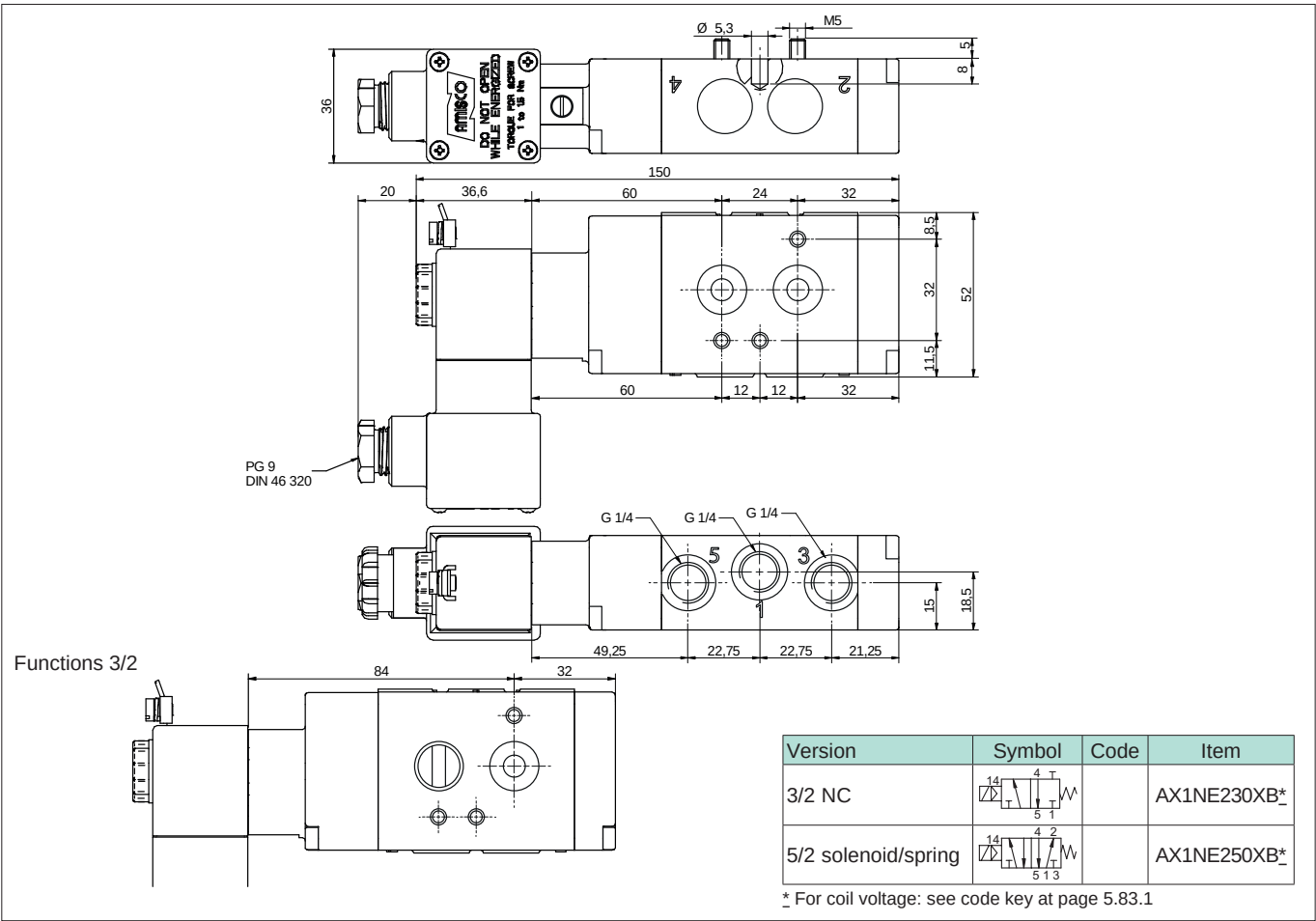
# Valves series AX1 - Encapsulated coil Ex dm

1/4", 3/2 - 5/2 - 5/3, IN LINE interface, electrically operated Ex dm



| Version                 | Symbol | Code | Item       | Version                                    | Symbol | Code | Item       |
|-------------------------|--------|------|------------|--------------------------------------------|--------|------|------------|
| 5/3 closed centres      |        |      | AX1E270XB* | 5/3 closed centres, external air pilot     |        |      | AX1K270XB* |
| 5/3 open centres        |        |      | AX1E271XB* | 5/3 open centres, external air pilot       |        |      | AX1K271XB* |
| 5/3 pressurised centres |        |      | AX1E272XB* | 5/3 pressurised centres external air pilot |        |      | AX1K272XB* |

\* For coil voltage: see code key at page 5.83.1





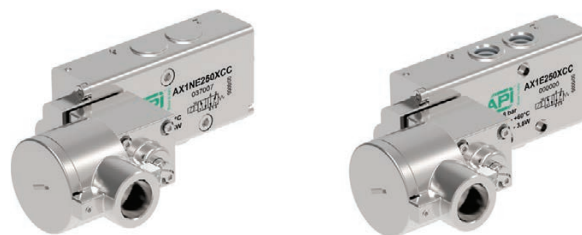


# Valves series AX1 - Flameproof coil Ex db

## 1/4", 3/2 - 5/2 - 5/3, IN LINE and NAMUR interface, electrically operated Ex db



| Standard executions                |        |                                  |
|------------------------------------|--------|----------------------------------|
| Version                            | Symbol | Code                             |
| 3/2 NC                             |        | For code key see the table below |
| 3/2 NO                             |        |                                  |
| 3/2 solenoid/solenoid              |        |                                  |
| 5/2 solenoid/spring                |        |                                  |
| 5/2 solenoid/solenoid              |        |                                  |
| 5/2 solenoid/solenoid differential |        |                                  |
| 5/3 closed centres                 |        |                                  |
| 5/3 open centres                   |        |                                  |
| 5/3 pressurised centres            |        |                                  |



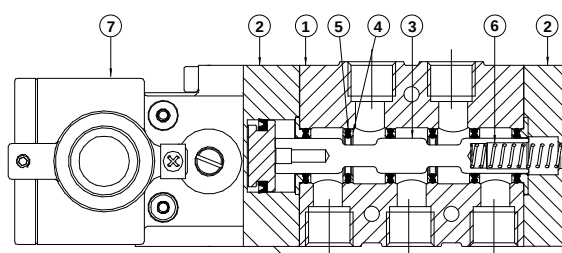
New series of "AX" valves with functions 3/2 - 5/2 - 5/3 connection in line on the body or NAMUR. Electric and electric servo pilot. They are manufactured in AISI 316L stainless steel, especially suitable in the food, chemical, pharmaceutical, Oil & Gas and mining industry. AX valves are manufactured according to 2014/34/EU Directive to be used in potentially explosive environment. Flameproof solenoid operator is used extensively to prevent possible overheating or sparking of electrical equipment causing ignition in an potentially explosive atmosphere. Flameproof solenoid coil is equipped with a robust enclosure which will contain an explosion in case should it occur. All construction joints in the enclosure are known as flame paths which prevent the transmission of a flame from within the enclosure to the external atmosphere.



II 2G Ex db IIC T6 Gb

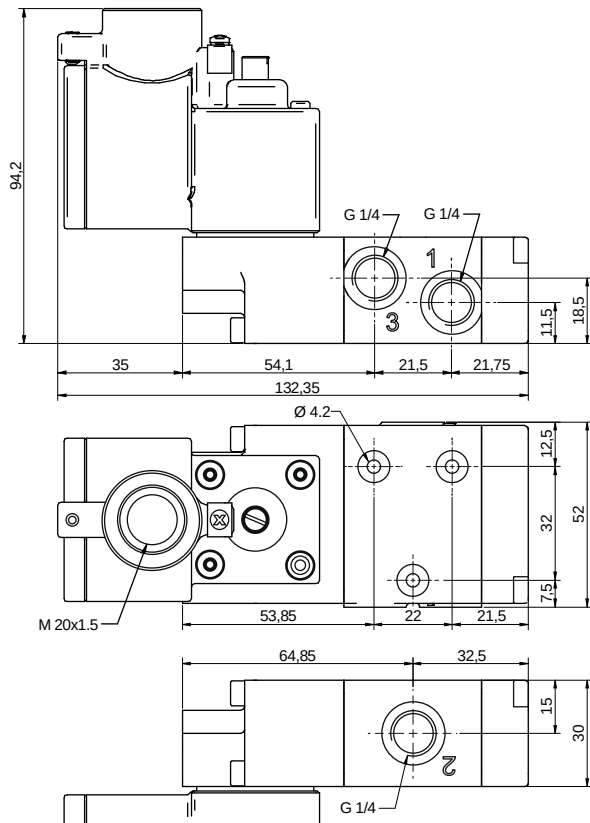
| Code key                                                                                                                |                   |                             |                                                                                                                                                                                                            |                            |                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------------------------------------------------------------------------------|
| Series                                                                                                                  | Actuation         | Size                        | Function                                                                                                                                                                                                   | Hazardous areas            | Voltages                                                                                                   |
| AX1 = Standard<br>AXX1* = Completely in stainless steel<br>AX1N = NAMUR<br>AXX1N* = NAMUR Completely in stainless steel | E = electrical Ø9 | 2 = 1/4 Gas<br>2N = 1/4 NPT | 30 = 3/2 NC<br>31 = 3/2 NO<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 CC<br>71 = 5/3 OC<br>72 = 5/3 PC | XC = II 2G Ex db IIC T6 Gb | B = 12 VDC<br>C = 24 VDC *<br>F = 24 VAC *<br>I = 110 VAC *<br>M = 120 VAC<br>O = 220 VAC *<br>Q = 240 VAC |
| * On request                                                                                                            |                   |                             |                                                                                                                                                                                                            |                            | * = Standard voltages                                                                                      |

| Technical data            |                 |                                                                                                   |        |                     |                     |            |                          |            |
|---------------------------|-----------------|---------------------------------------------------------------------------------------------------|--------|---------------------|---------------------|------------|--------------------------|------------|
| Fluid                     |                 | Compressed filtered air with or without lubrication. Lubrication, if started, must be continued.  |        |                     |                     |            |                          |            |
| Threaded connection       |                 | 1/4 Gas - 1/4 NPT                                                                                 |        |                     |                     |            |                          |            |
| Pressure range            |                 | Spring return: 2,5 ÷ 8 bar                                                                        |        | Bistable: 2 ÷ 8 bar |                     |            | 3 positions: 2,5 ÷ 8 bar |            |
| Temperature range         |                 | -20°C ÷ +60°C                                                                                     |        |                     |                     |            |                          |            |
| Protection grade          |                 | -                                                                                                 |        |                     |                     |            |                          |            |
| Ø Orifice                 |                 | 8 mm                                                                                              |        |                     |                     |            |                          |            |
| Flow                      |                 | 1.100 NI/min at 6 bar with ΔP 1 bar                                                               |        |                     |                     |            |                          |            |
| Mounting                  |                 | In any position (vertical assembly is not recommended for bistable valves subjected to vibration) |        |                     |                     |            |                          |            |
| Manual override           |                 | Bistable                                                                                          |        |                     |                     |            |                          |            |
| Electrical characteristic | Nominal voltage | 12 VDC                                                                                            | 24 VDC | 24 VAC              | 110 VAC             | 120 VAC    | 220 VAC                  | 240 VAC    |
|                           | Frequency       | -                                                                                                 | -      | 50 / 60 Hz          | 50 / 60 Hz          | 50 / 60 Hz | 50 / 60 Hz               | 50 / 60 Hz |
|                           | Nominal current |                                                                                                   |        |                     |                     |            |                          |            |
|                           | Nominal power   | 3.5 W                                                                                             | 3.5 W  | 4 VA                | 4 VA                | 4 VA       | 4 VA                     | 4 VA       |
|                           | Duty cycle      | 100% ED                                                                                           |        |                     |                     |            |                          |            |
|                           | Temp. class     | T6                                                                                                |        |                     |                     |            |                          |            |
| Response time (at 6 bar)  |                 | Energising: - ms                                                                                  |        |                     | Energising: - ms    |            | Energising: - ms         |            |
|                           |                 | De-energising: - ms                                                                               |        |                     | De-energising: - ms |            | De-energising: - ms      |            |
| Materials                 | (1) Body:       | Stainless steel AISI 316L                                                                         |        |                     |                     |            |                          |            |
|                           | (2) Cover:      | Stainless steel AISI 316L                                                                         |        |                     |                     |            |                          |            |
|                           | (3) Spool:      | Hard aluminium anodized (AX series)<br>Stainless steel AISI 316 (AXX series)                      |        |                     |                     |            |                          |            |
|                           | (4) Distancers: | Ixef 1022 (AX series)<br>Stainless steel AISI 316 (AXX series)                                    |        |                     |                     |            |                          |            |
|                           | (5) Seals:      | Hydrogenate Nitrile Butadine Rubber (HNBR)                                                        |        |                     |                     |            |                          |            |
|                           | (6) Spring      | Stainless steel                                                                                   |        |                     |                     |            |                          |            |
|                           | (7) Operator:   | Stainless steel AISI 316L                                                                         |        |                     |                     |            |                          |            |



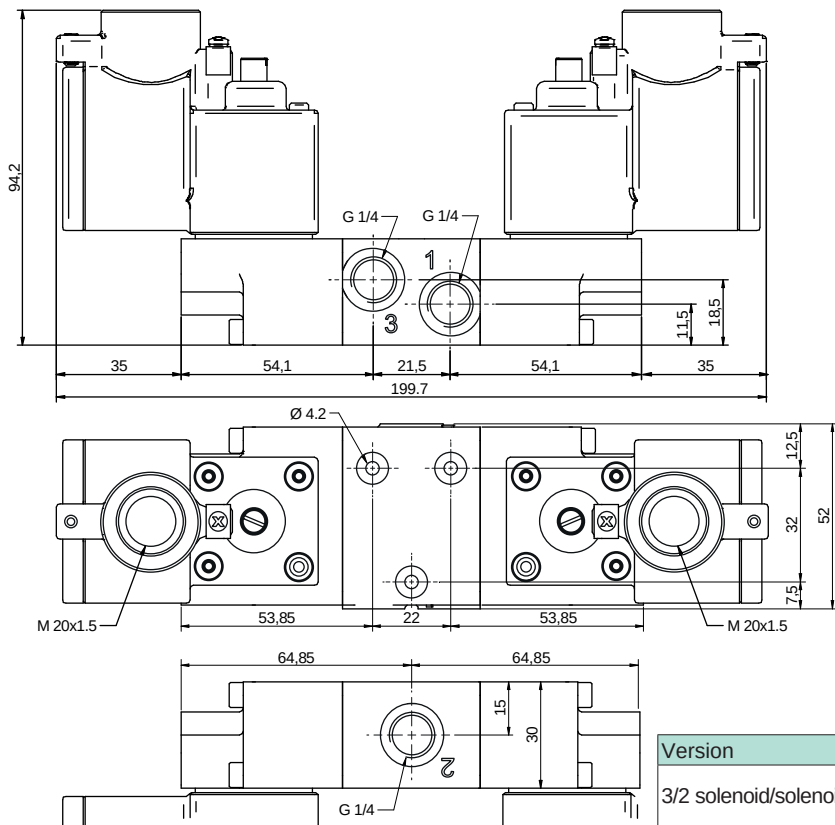
# Valves series AX1 - Flameproof coil Ex db

1/4", 3/2 - 5/2 - 5/3, IN LINE interface, electrically operated Ex db



| Version                      | Symbol | Code | Item       |
|------------------------------|--------|------|------------|
| 3/2 NC                       |        |      | AX1E230XC* |
| 3/2 NO                       |        |      | AX1E231XC* |
| 3/2 NC<br>external air pilot |        |      | AX1K230XC* |

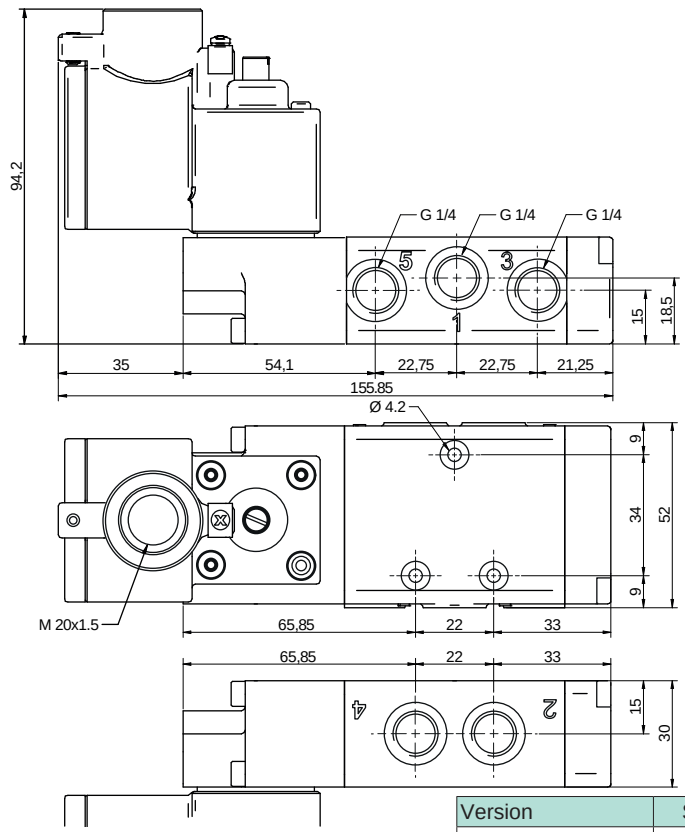
\* For coil voltage: see code key at page 5.84.1



| Version                                     | Symbol | Code | Item       |
|---------------------------------------------|--------|------|------------|
| 3/2 solenoid/solenoid                       |        |      | AX1E232XC* |
| 3/2 solenoid/solenoid<br>external air pilot |        |      | AX1K232XC* |

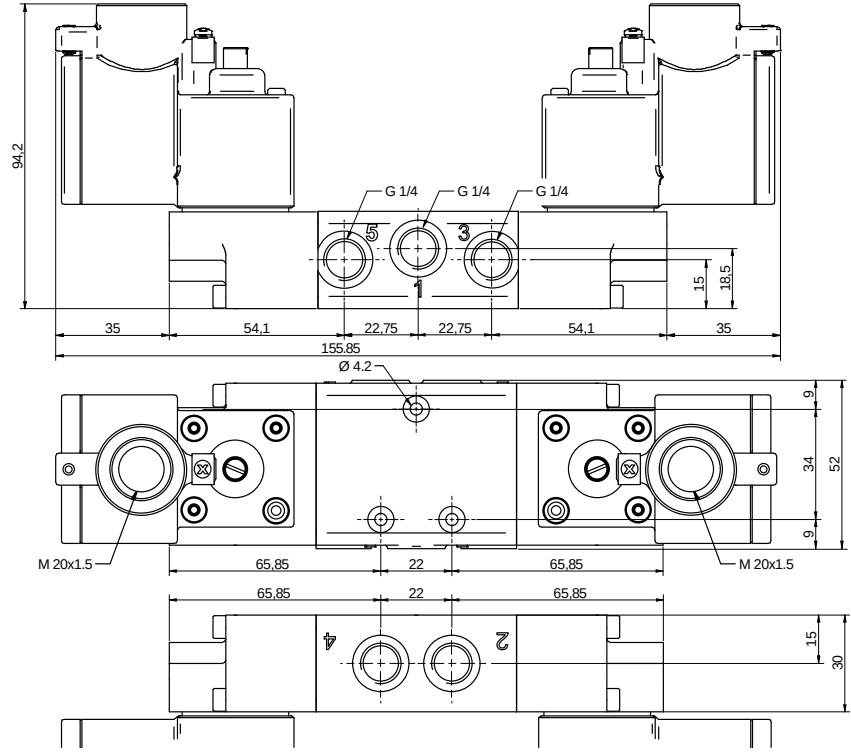
\* For coil voltage: see code key at page 5.84.1

Valves series AX1 - Flameproof coil Ex db  
1/4", 3/2 - 5/2 - 5/3, IN LINE interface, electrically operated Ex db



| Version             | Symbol | Code | Item       |
|---------------------|--------|------|------------|
| 5/2 solenoid/spring |        |      | AX1E250XC* |

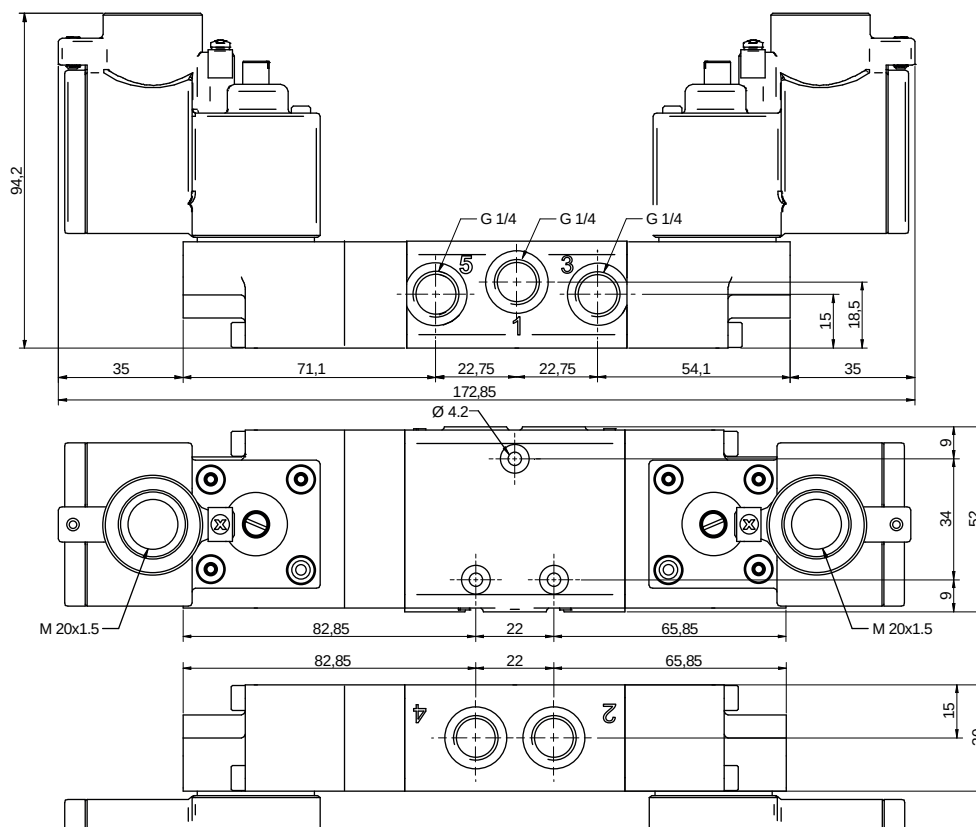
\* For coil voltage: see code key at page 5.84.1



| Version                            | Symbol | Code | Item       |
|------------------------------------|--------|------|------------|
| 5/2 solenoid/solenoid              |        |      | AX1E251XC* |
| 5/2 solenoid/solenoid differential |        |      | AX1E252XC* |

\* For coil voltage: see code key at page 5.84.1

Valves series AX1 - Flameproof coil Ex db  
1/4", 3/2 - 5/2 - 5/3, IN LINE interface, electrically operated Ex db



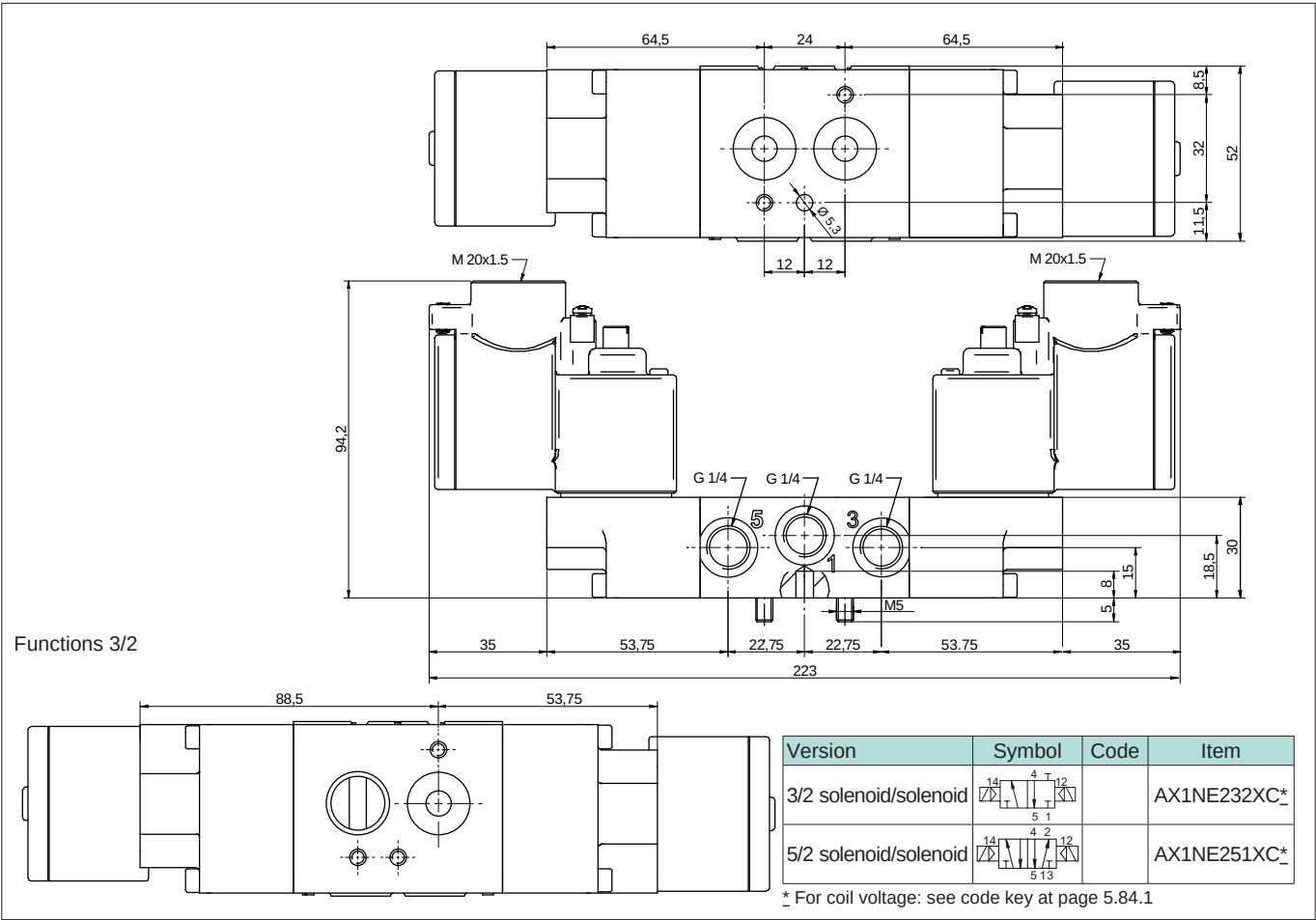
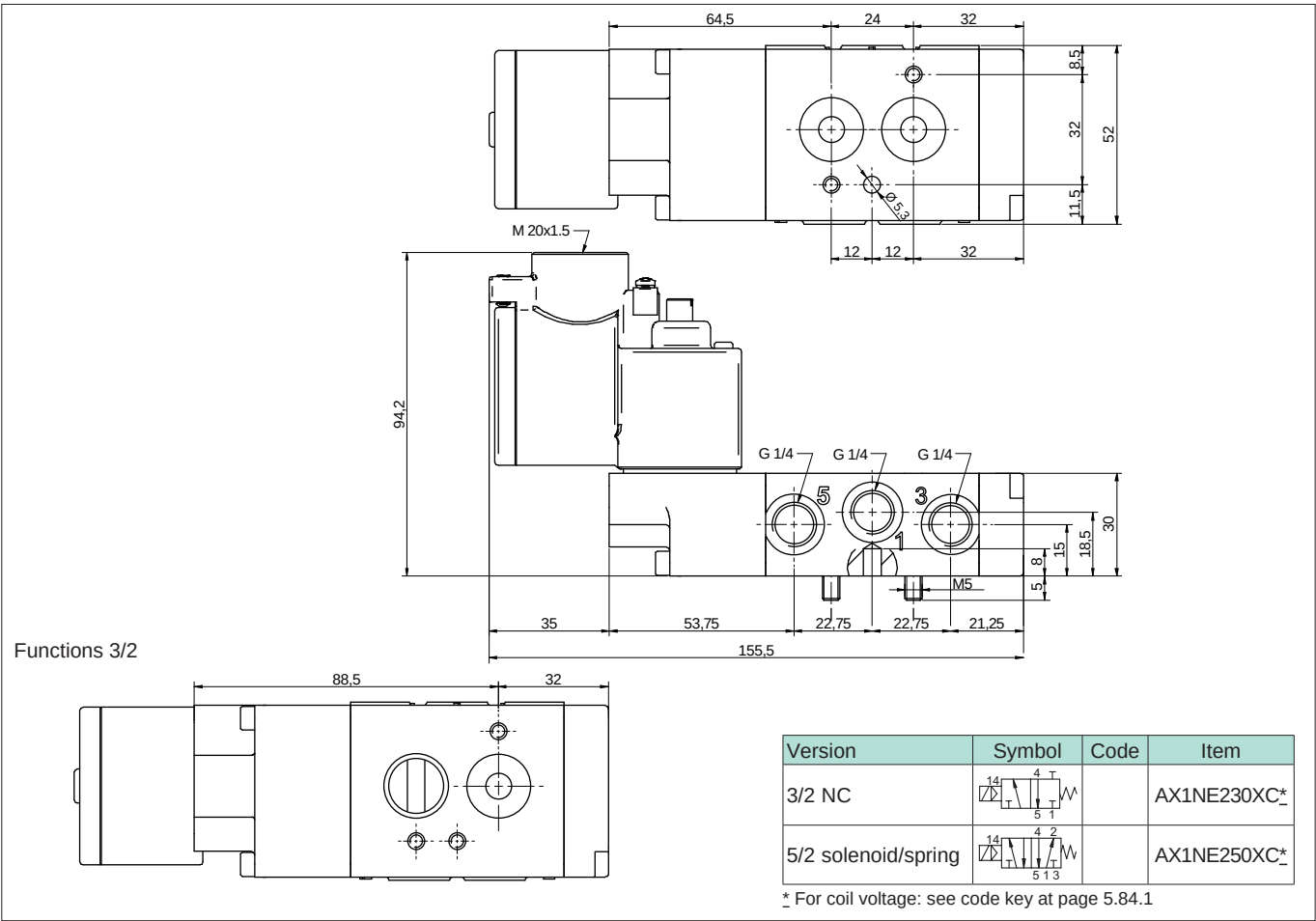
| Version                 | Symbol | Code | Item       |
|-------------------------|--------|------|------------|
| 5/3 closed centres      |        |      | AX1E270XC* |
| 5/3 open centres        |        |      | AX1E271XC* |
| 5/3 pressurised centres |        |      | AX1E272XC* |

| Version                                    | Symbol | Code | Item       |
|--------------------------------------------|--------|------|------------|
| 5/3 closed centres, external air pilot     |        |      | AX1K270XC* |
| 5/3 open centres, external air pilot       |        |      | AX1K271XC* |
| 5/3 pressurised centres external air pilot |        |      | AX1K272XC* |

\* For coil voltage: see code key at page 5.84.1

# Valves series AX1 - Flameproof coil Ex db

1/4", 3/2 - 5/2, NAMUR interface, electrically operated Ex db





# Valves series AX1 - Encapsulated coil Ex mb

## 1/4", 3/2 - 5/2 - 5/3, IN LINE and NAMUR interface, electrically operated Ex mb



| Standard executions                |        |                                  |
|------------------------------------|--------|----------------------------------|
| Version                            | Symbol | Code                             |
| 3/2 NC                             |        | For code key see the table below |
| 3/2 NO                             |        |                                  |
| 3/2 solenoid/solenoid              |        |                                  |
| 5/2 solenoid/spring                |        |                                  |
| 5/2 solenoid/solenoid              |        |                                  |
| 5/2 solenoid/solenoid differential |        |                                  |
| 5/3 closed centres                 |        |                                  |
| 5/3 open centres                   |        |                                  |
| 5/3 pressurised centres            |        |                                  |



New series of "AX" valves with functions 3/2 - 5/2 - 5/3 connection in line on the body or NAMUR. Electric and electric servo pilot. They are manufactured in AISI 316L stainless steel, especially suitable in the food, chemical, pharmaceutical, Oil & Gas and mining industry. AX valves are manufactured according to 2014/34/EU Directive to be used in potentially explosive environment. Solenoid operator with a special coil for pneumatic application in potentially explosive environment (group II).

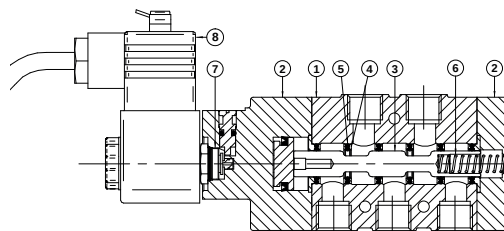
Solenoid system is conforming to 2014/34/EU Directive, certified:



II 2G Ex mb IIC T5 Gb  
II 2D Ex tb IIIC T95°C Db IP66

| Code key                                                                                                                    |                                                           |                            |                                                                                                                                                                                                                |                                                              |                                                       |                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Series                                                                                                                      | Actuation                                                 | Size                       | Function                                                                                                                                                                                                       | Hazardous areas                                              | Voltages                                              |                                                                                                                                                         |
| AX1 = Standard<br>AXX1* = Completely in stainless steel<br><br>AX1N = NAMUR<br>AXX1N* = NAMUR Completely in stainless steel | E = electrical Ø9<br>K = electrical Ø9 external air pilot | 2 = 1/4 Gas<br>2N= 1/4 NPT | 30 = 3/2 NC<br>31 = 3/2 NO<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><br>70 = 5/3 CC<br>71 = 5/3 OC<br>72 = 5/3 PC | XD = II 2G Ex mb IIC T5 Gb<br>II 2D Ex tb IIIC T95°C Db IP66 | A = 6 VDC<br>B = 12 VDC<br>C = 24 VDC *<br>D = 48 VDC | E = 12 VAC<br>F = 24 VAC *<br>G = 48 VAC *<br>H = 100 VAC<br>I = 110 VAC *<br>L = 115 VAC<br>M = 120 VAC<br>O = 220 VAC *<br>P = 230 VAC<br>Q = 240 VAC |
| * On request                                                                                                                |                                                           |                            |                                                                                                                                                                                                                |                                                              | * = Standard voltages                                 |                                                                                                                                                         |

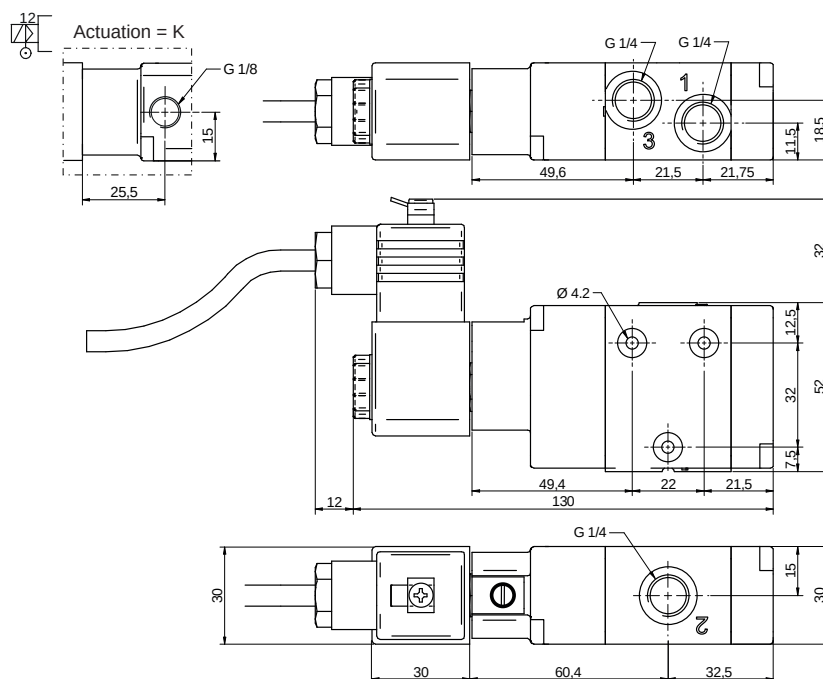
| Technical data                |                 |                                                                                                   |         |         |         |                      |          |          |          |                           |          |          |          |          |          |  |
|-------------------------------|-----------------|---------------------------------------------------------------------------------------------------|---------|---------|---------|----------------------|----------|----------|----------|---------------------------|----------|----------|----------|----------|----------|--|
| Fluid                         |                 | Compressed filtered air with or without lubrication. Lubrication, if started, must be continued.  |         |         |         |                      |          |          |          |                           |          |          |          |          |          |  |
| Threaded connection           |                 | 1/4 Gas - 1/4 NPT                                                                                 |         |         |         |                      |          |          |          |                           |          |          |          |          |          |  |
| Pressure range                |                 | Spring return: 2,5 ÷ 10 bar                                                                       |         |         |         | Bistable: 1 ÷ 10 bar |          |          |          | 3 positions: 2,5 ÷ 10 bar |          |          |          |          |          |  |
| Minimum external air pressure |                 | 1,5 bar                                                                                           |         |         |         |                      |          |          |          |                           |          |          |          |          |          |  |
| Temperature range             |                 | -25°C ÷ +50°C                                                                                     |         |         |         |                      |          |          |          |                           |          |          |          |          |          |  |
| Protection grade              |                 | IP66                                                                                              |         |         |         |                      |          |          |          |                           |          |          |          |          |          |  |
| Ø Orifice                     |                 | 8 mm                                                                                              |         |         |         |                      |          |          |          |                           |          |          |          |          |          |  |
| Flow                          |                 | 1.100 NI/min at 6 bar with ΔP 1 bar                                                               |         |         |         |                      |          |          |          |                           |          |          |          |          |          |  |
| Mounting                      |                 | In any position (vertical assembly is not recommended for bistable valves subjected to vibration) |         |         |         |                      |          |          |          |                           |          |          |          |          |          |  |
| Cable lenght                  |                 | 3 mt.                                                                                             |         |         |         |                      |          |          |          |                           |          |          |          |          |          |  |
| Manual override               |                 | Bistable                                                                                          |         |         |         |                      |          |          |          |                           |          |          |          |          |          |  |
| Electrical characteristic     | Nominal voltage | 6VDC                                                                                              | 12 VDC  | 24 VDC  | 48 VDC  | 12 VAC               | 24VAC    | 48 VAC   | 100 VAC  | 110 VAC                   | 115 VAC  | 120 VAC  | 220 VAC  | 230 VAC  | 240 VAC  |  |
|                               | Frequency       | -                                                                                                 | -       | -       | -       | 50/60 Hz             | 50/60 Hz | 50/60 Hz | 50/60 Hz | 50/60 Hz                  | 50/60 Hz | 50/60 Hz | 50/60 Hz | 50/60 Hz | 50/60 Hz |  |
|                               | Nominal current | 0.510 A                                                                                           | 0.250 A | 0.125 A | 0.063 A | 0.270 A              | 0.133 A  | 0.067 A  | 0.032 A  | 0.029 A                   | 0.028 A  | 0.027 A  | 0.014 A  | 0.014 A  | 0.013 A  |  |
|                               | Nominal power   | 3W                                                                                                | 3W      | 3W      | 3W      | 3.2 VA               | 3.2 VA   | 3.2 VA   | 3.2 VA   | 3.2 VA                    | 3.2 VA   | 3.2 VA   | 3.2 VA   | 3.2 VA   | 3.2 VA   |  |
|                               | Duty cycle      | 100% ED                                                                                           |         |         |         |                      |          |          |          |                           |          |          |          |          |          |  |
|                               | Temp. class     | T5                                                                                                |         |         |         |                      |          |          |          |                           |          |          |          |          |          |  |
| Response time (at 6 bar)      |                 | Energising: - ms                                                                                  |         |         |         | Energising: - ms     |          |          |          | Energising: - ms          |          |          |          |          |          |  |
|                               |                 | De-energising: - ms                                                                               |         |         |         | De-energising: - ms  |          |          |          | De-energising: - ms       |          |          |          |          |          |  |
| Materials                     | (1) Body:       | Stainless steel AISI 316L                                                                         |         |         |         |                      |          |          |          |                           |          |          |          |          |          |  |
|                               | (2) Cover:      | Stainless steel AISI 316L                                                                         |         |         |         |                      |          |          |          |                           |          |          |          |          |          |  |
|                               | (3) Spool:      | Hard aluminium anodized (AX series)<br>Stainless steel AISI 316 (AXX series)                      |         |         |         |                      |          |          |          |                           |          |          |          |          |          |  |
|                               | (4) Distancers: | Ixef 1022 (AX series)<br>Stainless steel AISI 316 (AXX series)                                    |         |         |         |                      |          |          |          |                           |          |          |          |          |          |  |
|                               | (5) Seals:      | Hydrogenate Nitrile Butadine Rubber (HNBR)                                                        |         |         |         |                      |          |          |          |                           |          |          |          |          |          |  |
|                               | (6) Spring:     | Stainless steel                                                                                   |         |         |         |                      |          |          |          |                           |          |          |          |          |          |  |
|                               | (7) Operator:   | Stainless steel                                                                                   |         |         |         |                      |          |          |          |                           |          |          |          |          |          |  |
|                               | (8) Coil:       | Thermoset resin                                                                                   |         |         |         |                      |          |          |          |                           |          |          |          |          |          |  |





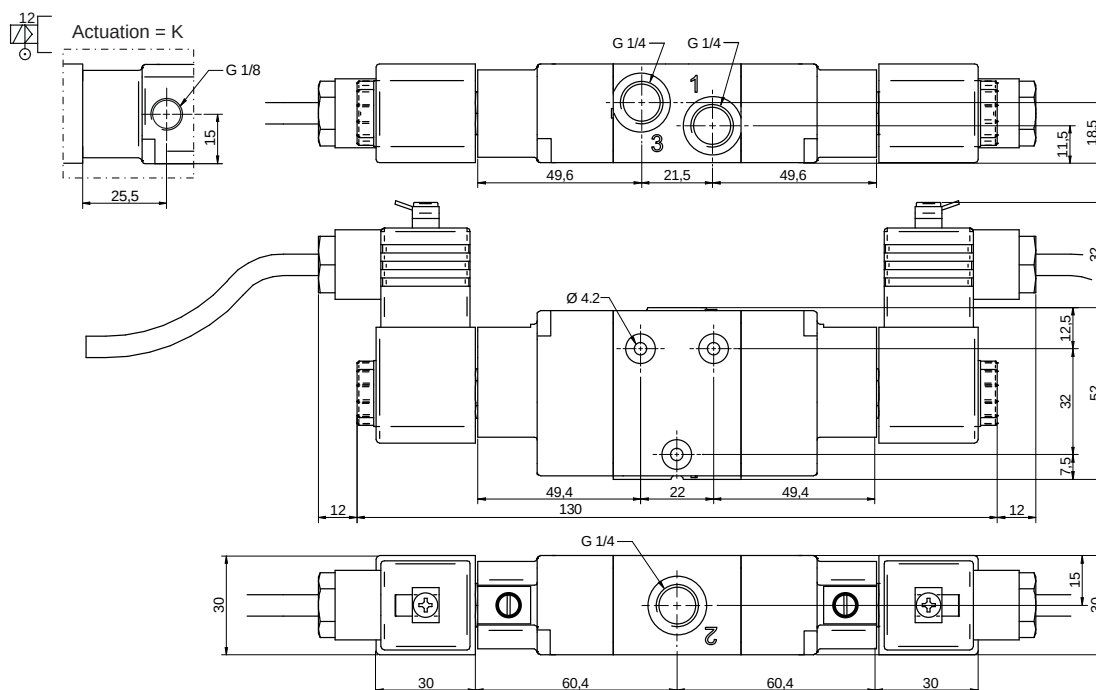
# Valves series AX1 - Encapsulated coil Ex mb

## 1/4", 3/2 - 5/2 - 5/3, IN LINE interface, electrically operated Ex mb



| Version                      | Symbol | Code | Item       |
|------------------------------|--------|------|------------|
| 3/2 NC                       |        |      | AX1E230XD* |
| 3/2 NO                       |        |      | AX1E231XD* |
| 3/2 NC<br>external air pilot |        |      | AX1K230XD* |

\* For coil voltage: see code key at page 5.85.1

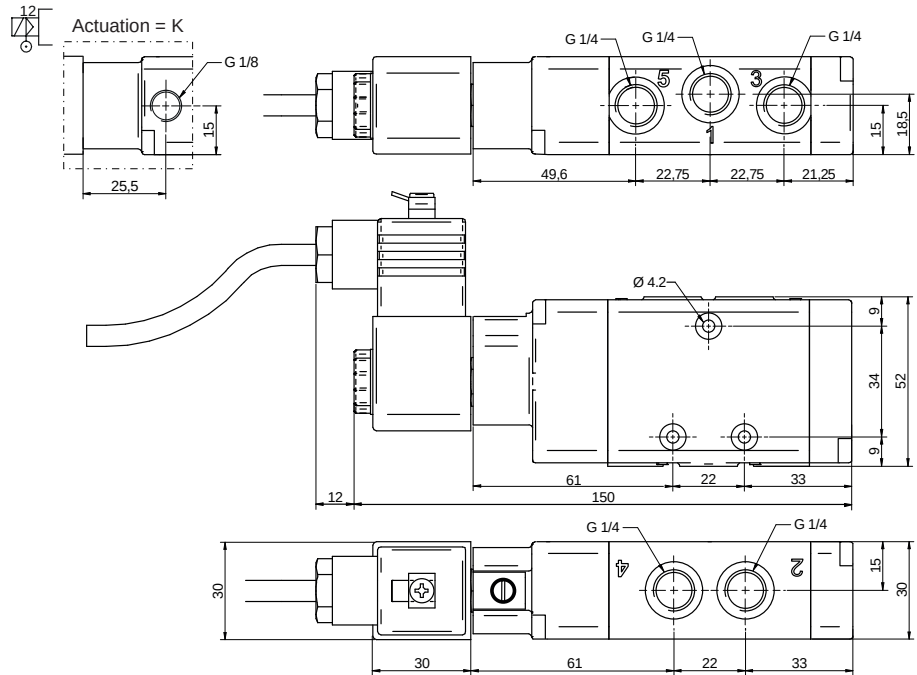


| Version                                     | Symbol | Code | Item       |
|---------------------------------------------|--------|------|------------|
| 3/2 solenoid/solenoid                       |        |      | AX1E232XD* |
| 3/2 solenoid/solenoid<br>external air pilot |        |      | AX1K232XD* |

\* For coil voltage: see code key at page 5.85.1

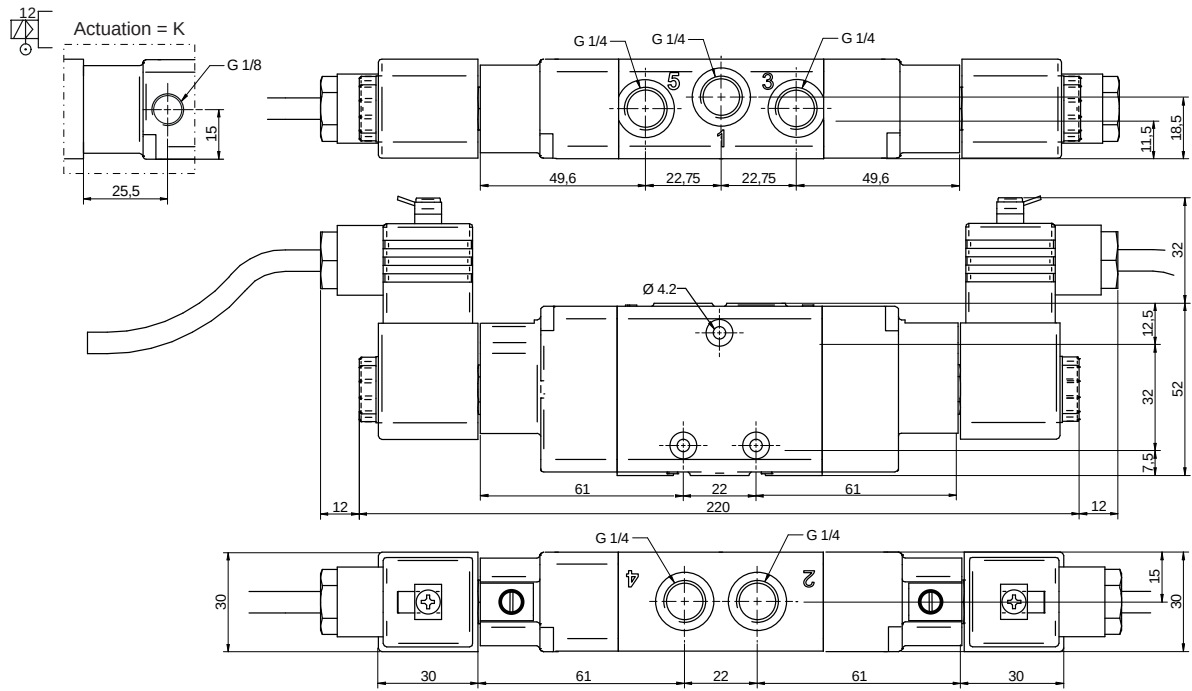
# Valves series AX1 - Encapsulated coil Ex mb

1/4", 3/2 - 5/2 - 5/3, IN LINE interface, electrically operated Ex mb



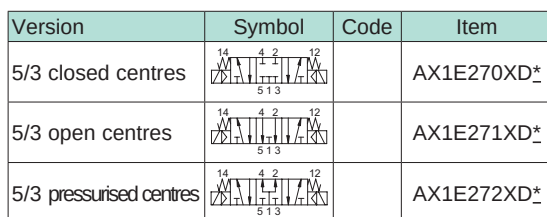
| Version             | Symbol | Code | Item       |
|---------------------|--------|------|------------|
| 5/2 solenoid/spring |        |      | AX1E250XD* |

\* For coil voltage: see code key at page 5.85.1



| Version                            | Symbol | Code | Item       |
|------------------------------------|--------|------|------------|
| 5/2 solenoid/solenoid              |        |      | AX1E251XD* |
| 5/2 solenoid/solenoid differential |        |      | AX1E252XD* |

\* For coil voltage: see code key at page 5.85.1

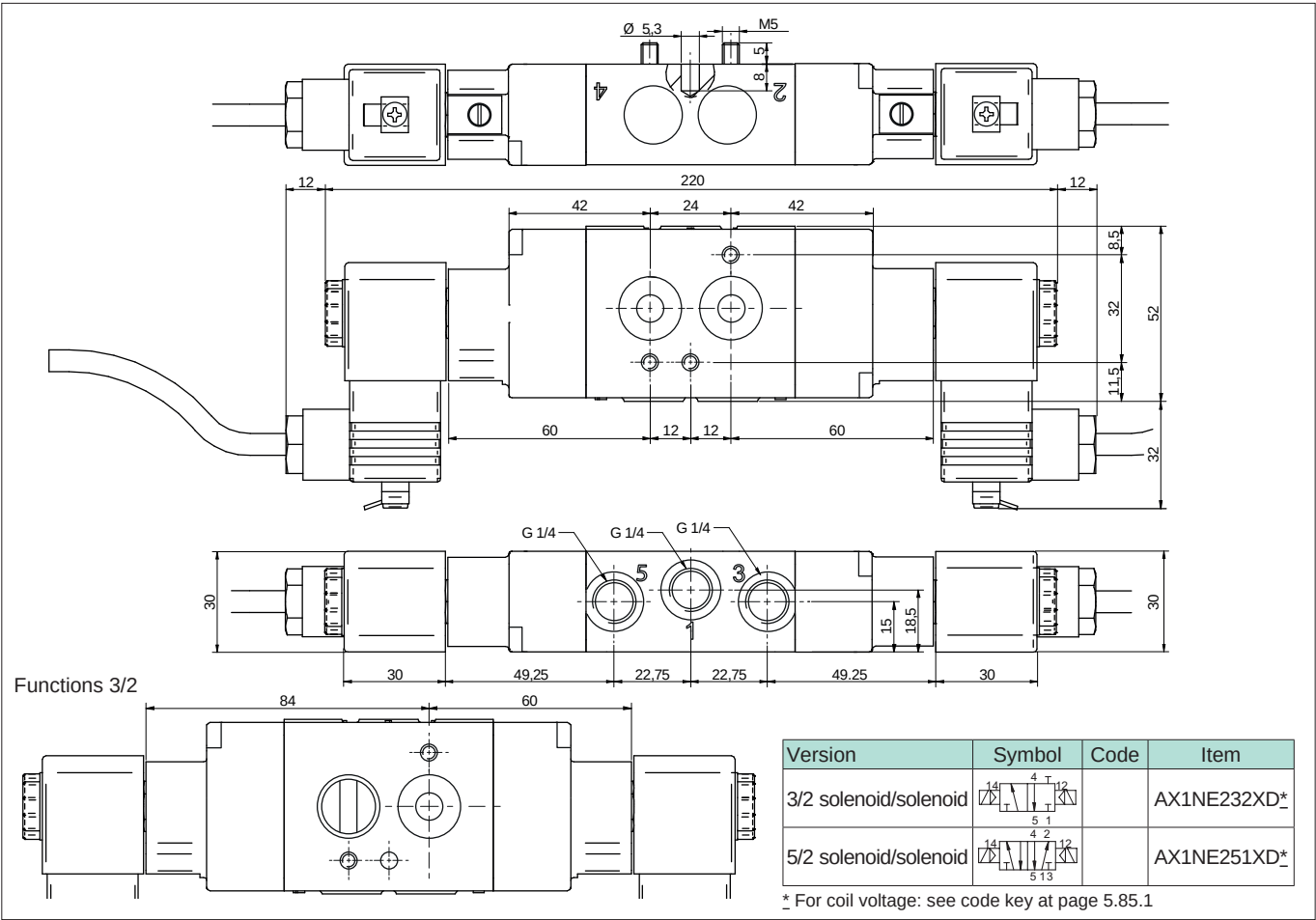
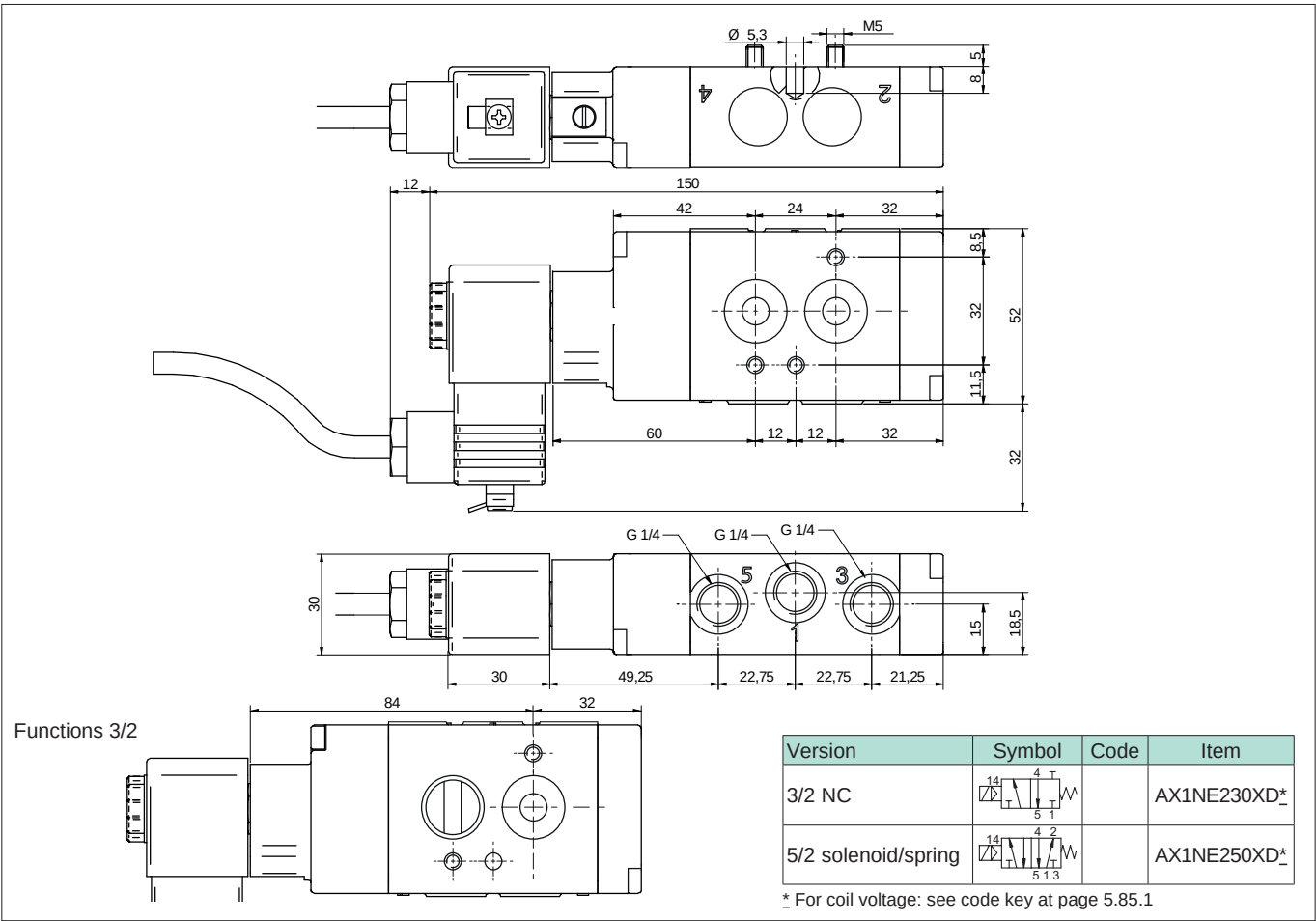


| Version                                       | Symbol                                                                                | Code | Item       |
|-----------------------------------------------|---------------------------------------------------------------------------------------|------|------------|
| 5/3 closed centres,<br>external air pilot     |  |      | AX1K270XD* |
| 5/3 open centres,<br>external air pilot       |  |      | AX1K271XD* |
| 5/3 pressurised centres<br>external air pilot |  |      | AX1K272XD* |

5.85.4

# Valves series AX1 - Encapsulated coil Ex mb

1/4", 3/2 - 5/2, NAMUR interface, electrically operated Ex mb





# Stainless Steel ancillary valves

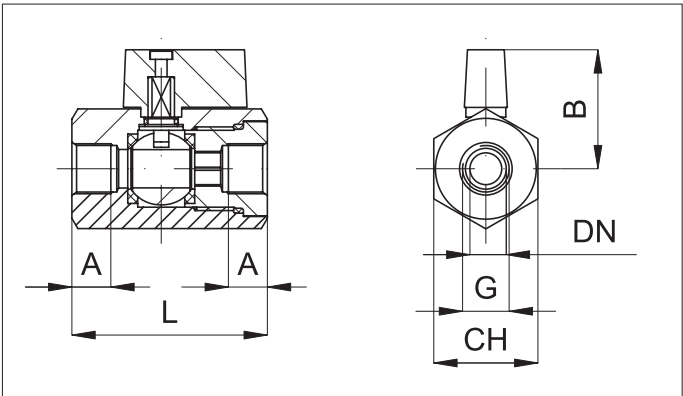
## Miniature ball valves from stainless steel hexagonal bar



| Standard executions |        |        |         |
|---------------------|--------|--------|---------|
| Version             | Symbol | Code   | Item    |
| 1/4" female-female  |        | 030651 | 2MVSXFF |
| 3/8" female-female  |        | 030652 | 3MVSXFF |
| 1/2" female-female  |        | 030653 | 4MVSXFF |
| 1/4" male-female    |        | 030654 | 2MVSXMF |
| 3/8"* male-female   |        | 030655 | 3MVSXMF |
| 1/2" male-female    |        | 030656 | 4MVSXMF |



Series of miniature ball valves from stainless steel hexagonal bar and manually operated. In line mounting they work to close or open the flow in both directions. For use in the alimentary and chemical field.



| G    | A  | B  | L  | CH | DN | Weight (g) FF | Weight (g) MF |
|------|----|----|----|----|----|---------------|---------------|
| 1/4" | 10 | 30 | 50 | 27 | 10 | 200           | 170           |
| 3/8" | 10 | 30 | 50 | 27 | 10 | 190           | 165           |
| 1/2" | 10 | 30 | 50 | 27 | 10 | 175           | 160           |

| Technical data    |                                                                                                                                                               |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fluid             | Compressed filtered air with or without lubrication. Lubrication, if started, must be continued.                                                              |
| Pressure          | 0 ÷ 25 bar                                                                                                                                                    |
| Temperature range | -20 °C ÷ + 150°C                                                                                                                                              |
| Orifice           | See the dimension DN in the table                                                                                                                             |
| Mounting          | In-line                                                                                                                                                       |
| Materials         | <div>Body: Stainless steel AISI 316</div> <div>Lever: Nylon 66 reinforced glass</div> <div>Sphere: Stainless steel AISI 316</div> <div>Seal: PTFE - FKM</div> |

# Stainless Steel ancillary valves

## Ball valves "full bore"



### Standard executions

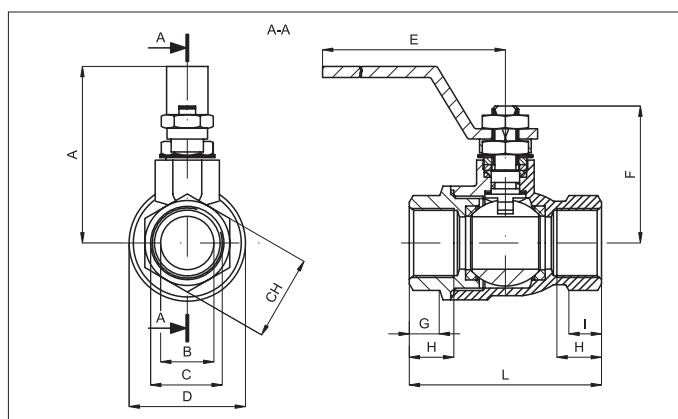
| Version | Symbol | Code   | Item      |
|---------|--------|--------|-----------|
| 1/4"    |        | 030681 | VSLX014FF |
| 3/8"    |        | 030682 | VSLX038FF |
| 1/2"    |        | 030683 | VSLX012FF |
| 3/4"    |        | 030684 | VSLX034FF |
| 1"      |        | 030685 | VSLX100FF |
| 1 1/4"  |        | 030686 | VSLX114FF |
| 1 1/2"  |        | 030687 | VSLX112FF |
| 2"      |        | 030688 | VSLX200FF |



Series of stainless steel ball valves full bore with long lever and manually operated.

In line mounting they work to close or open the air flow in both directions.

For use in the alimentary and chemical fields.



| C      | A   | B  | D    | E   | F  | G    | H    | I    | L   | CH   | Weight (g) |
|--------|-----|----|------|-----|----|------|------|------|-----|------|------------|
| 1/4"   | 52  | 8  | 29   | 110 | 37 | 8,5  | 11,4 | 8    | 50  | 21,5 | 220        |
| 3/8"   | 52  | 10 | 29   | 110 | 37 | 8,5  | 11,4 | 8    | 50  | 21,5 | 205        |
| 1/2"   | 55  | 15 | 34   | 110 | 42 | 10   | 15   | 9,5  | 60  | 26,5 | 275        |
| 3/4"   | 66  | 20 | 42,5 | 140 | 52 | 11,5 | 16,3 | 11,5 | 70  | 31,5 | 465        |
| 1"     | 70  | 25 | 50,5 | 140 | 56 | 14   | 19,1 | 13,5 | 85  | 40,5 | 710        |
| 1 1/4" | 85  | 32 | 63   | 180 | 68 | 15,5 | 21,4 | 16   | 95  | 49,5 | 1180       |
| 1 1/2" | 91  | 40 | 75,5 | 180 | 74 | 18,5 | 21,4 | 16   | 105 | 54,5 | 1740       |
| 2"     | 105 | 50 | 91   | 230 | 87 | 22,5 | 25,7 | 23,5 | 125 | 69,5 | 2930       |

### Technical data

|                   |                                                      |                          |                      |           |                          |              |                  |
|-------------------|------------------------------------------------------|--------------------------|----------------------|-----------|--------------------------|--------------|------------------|
| Fluid             | Compressed air, water, steam, inert gases and fluids |                          |                      |           |                          |              |                  |
| Pressure          | 1/4" - 3/8"- 1/2"= 100 bar                           |                          | 3/4"-1"= 64 bar      |           | 1 1/4"-1 1/2"-2"= 40 bar |              |                  |
| Temperature range | -20 °C ÷ + 150°C                                     |                          |                      |           |                          |              |                  |
| Orifice           | 1/4"-3/8"= 10 mm                                     | 1/2"= 15 mm              | 3/4"= 20 mm          | 1"= 25 mm | 1 1/4"= 32 mm            | 1 1/2= 40 mm | 2"= 50 mm        |
| Flow              | 1/4" - 3/8"= 3.000 l/min                             |                          | 1/2"= 11.500 l/min   |           | 3/4"= 21.000 l/min       |              | 1"= 33.000 l/min |
|                   | 1 1/4"= 50.000 l/min                                 |                          | 1 1/2"= 84.000 l/min |           | 2"= 97.000 l/min.        |              |                  |
| Mounting          | In-line                                              |                          |                      |           |                          |              |                  |
| Materials         | Body:                                                | Stainless steel AISI 316 |                      |           |                          |              |                  |
|                   | Lever:                                               | Stainless steel AISI 316 |                      |           |                          |              |                  |
|                   | Ball:                                                | Stainless steel AISI 316 |                      |           |                          |              |                  |
|                   | Seal:                                                | PTFE - FKM               |                      |           |                          |              |                  |

# Stainless Steel ancillary valves

## Uni-directional valves



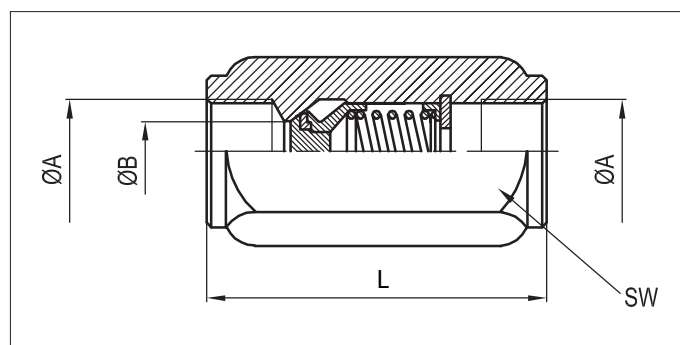
| Standard executions |        |        |       |
|---------------------|--------|--------|-------|
| Version             | Symbol | Code   | Item  |
| 1/8"                |        | 030110 | 1FFX  |
| 1/4"                |        | 030111 | 2FFX  |
| 3/8"                |        | 030112 | 3FFX  |
| 1/2"                |        | 030113 | 4FFX  |
| 3/4"                |        | 030114 | 5FFX  |
| 1"                  |        | 030115 | 6FFX  |
| 1 1/4"              |        | 030129 | 14FFX |
| 1 1/2"              |        | 030130 | 12FFX |
| 2"                  |        | 030131 | 20FFX |

Note: available on request with NPTF thread.



Series of uni-directional ball valves from hexagonal bar, female threaded.

In line mounting they allow the compressed air to flow in one direction only; therefore, they are useful in those applications where no return of the compressed air to the supply is admitted.



| A      | L   | SW | Ø B | Orifice<br>mm <sup>2</sup> | PMax<br>bar | Weight<br>(g) |
|--------|-----|----|-----|----------------------------|-------------|---------------|
| 1/8"   | 42  | 14 | 5   | 18                         | 350         | 50            |
| 1/4"   | 50  | 19 | 7   | 22                         | 350         | 90            |
| 3/8"   | 60  | 24 | 10  | 42                         | 350         | 160           |
| 1/2"   | 65  | 27 | 11  | 75                         | 350         | 280           |
| 3/4"   | 75  | 34 | 17  | 126                        | 300         | 350           |
| 1"     | 93  | 41 | 21  | 230                        | 250         | 580           |
| 1" 1/4 | 110 | 50 | 29  | 340                        | 250         | 360           |
| 1" 1/2 | 112 | 55 | 34  | 509                        | 250         | 1020          |
| 2"     | 120 | 75 | 48  | 1640                       | 200         | 2200          |

| Technical data    |                                                                                 |
|-------------------|---------------------------------------------------------------------------------|
| Fluid             | Compressed filtered air with or without lubrication                             |
| Pressure          | from 0,5 bar to see table                                                       |
| Temperature range | -20 °C ÷ + 150°C                                                                |
| Orifice           | see table                                                                       |
| Flow              |                                                                                 |
| Mounting          | In-line                                                                         |
| Materials         | Body: Stainless steel AISI 316<br>Spring: Stainless steel AISI 316<br>Seal: FKM |



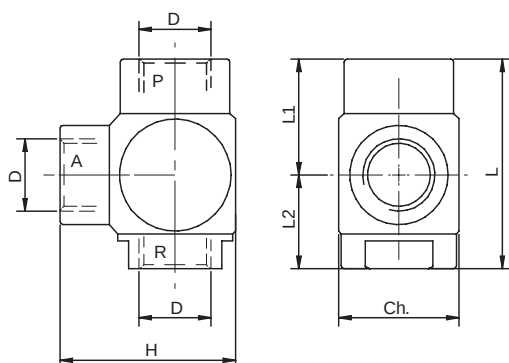
# Stainless Steel ancillary valves

## Quick exhaust valves



| Standard executions |        |        |       |
|---------------------|--------|--------|-------|
| Version             | Symbol | Code   | Item  |
| 1/8"                |        | 030810 | 1VSRX |
| 1/4"                |        | 030809 | 2VSRX |
| 3/8"                |        | 030811 | 3VSRX |
| 1/2"                |        | 030812 | 4VSRX |
| 3/4"                |        | 030813 | 5VSRX |
| 1"                  |        | 030814 | 6VSRX |

| Options              | Suffix |
|----------------------|--------|
| Seals FKM max 150 °C | V      |
| Threaded NPTF        | NPT    |



| Flow rate (at 6 bar with ΔP 1 bar) |      |      |      |    |    |               |               |
|------------------------------------|------|------|------|----|----|---------------|---------------|
| D (Version)                        | L    | L1   | L2   | H  | CH | P-A (lt/min.) | A-R (lt/min.) |
| 1/8"                               | 37,5 | 21   | 16,5 | 32 | 22 | 1580          | 1880          |
| 1/4"                               | 37,5 | 21   | 16,5 | 32 | 22 | 1650          | 1900          |
| 3/8"                               | 44,5 | 25,5 | 19   | 37 | 26 | 2350          | 2880          |
| 1/2"                               | 54   | 23   | 31   | 45 | 32 | 4580          | 6400          |
| 3/4"                               | 79   | 35   | 44   | 65 | 46 | 7100          | 10400         |
| 1"                                 | 79   | 35   | 44   | 65 | 46 | 7200          | 10500         |

| Technical data    |                                                                    |          |           |                                            |           |         |
|-------------------|--------------------------------------------------------------------|----------|-----------|--------------------------------------------|-----------|---------|
| Fluid             | Compressed filtered air with or without lubrication                |          |           |                                            |           |         |
| Pressure          | 2 ÷ 10 bar                                                         |          |           |                                            |           |         |
| Temperature range | 1/8" e 1/4" = -10 °C ÷ + 120 °C                                    |          |           | 3/8" - 1/2" - 3/4" e 1" = -20 °C ÷ + 80 °C |           |         |
| Orifice (mm)      | 1/8" = 6                                                           | 1/4" = 8 | 3/4" = 10 | 1/2" = 12                                  | 3/4" = 16 | 1" = 18 |
| Materials         | Body: Stainless steel AISI 316L                                    |          |           |                                            |           |         |
|                   | Seals: 1/8" e 1/4" = FKM<br>3/8" - 1/2" - 3/4" - 1" = Polyurethane |          |           |                                            |           |         |



Series of stainless steel quick exhaust valves used to increase the speed of a cylinder.

The valve must be mounted directly on the port of the cylinder to achieve the maximum possible speed.

When the supply is in P the diaphragm closes the exhaust R and so the air flows through A into the chamber of the cylinder. When the supply in P fails the diaphragm closes P and this is due to the exhaust air from A to R. The noise of the exhaust can be reduced by a silencer.

For stainless steel silencers see from page 5.190.1

How to order : 2VSRVXNPT

| 2VSRX   | NPT    |
|---------|--------|
| Version | Option |

| Standard executions           |        |        |          |
|-------------------------------|--------|--------|----------|
| Version                       | Symbol | Code   | Item     |
| Filter-regulator + lubricator |        | 090604 | A14FRRLX |
| Filter-regulator              |        | 090601 | A14FRRX  |
| Filter                        |        | 090607 | A14FX    |
| Regulator                     |        | 090610 | A14RX    |
| Lubricator                    |        | 090613 | A14LX    |



On request, they can be supplied according to 2014/34/EU - ATEX

| Options                                 | Suffix |
|-----------------------------------------|--------|
| Filter 40 µm cartridge                  | 40     |
| NPT thread                              | N      |
| Manual condense drain                   | H      |
| Automatic condense drain                | D      |
| Seals for low temperature -40°C ÷ +70°C | BT     |



Series of modular units in stainless steel AISI 316 suitable for industrial application like: food, medical, chemical, Oil & Gas and mining.

Light weight and compact size for space saving, the air preparation units have the following standard features:

- For high pressure use, corrosion and chemical resistance;
- Good performance in chemical working environments and outdoor facility;
- Suitable for food, medical, chemical, off-shore and mining industry;
- Metallic parts meet NACE Standard MR-01-75;
- The product effectively removes water and particle;
- Accurate and sensitive pressure setting;
- Lubricator oil can be replenished without stopping air supply.

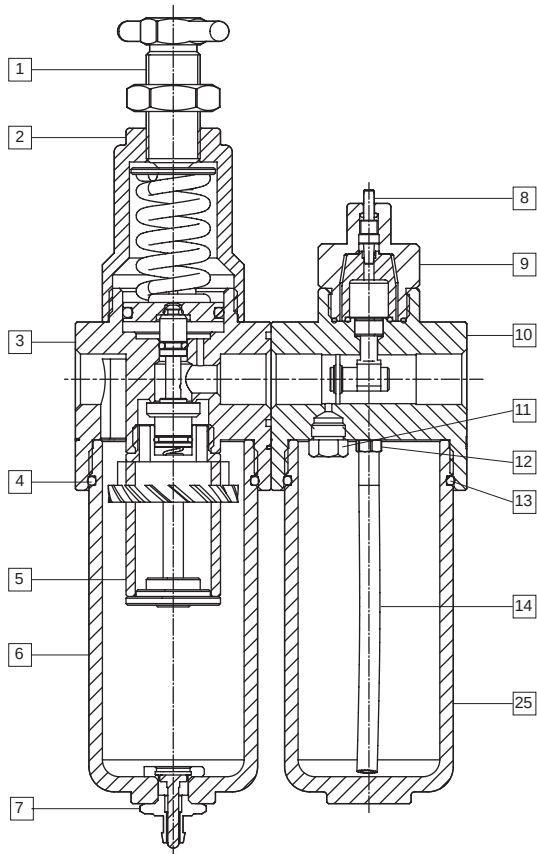
Order separately screw kit and o-ring for mounting FRRX + LX, see page 5.140.21

The modular units are supplied together with the bracket nuts and gauge always in stainless steel material.

How to order: A14FRRX40N

|         |        |        |
|---------|--------|--------|
| A14FRRX | 40     | N      |
| Version | Option | Option |

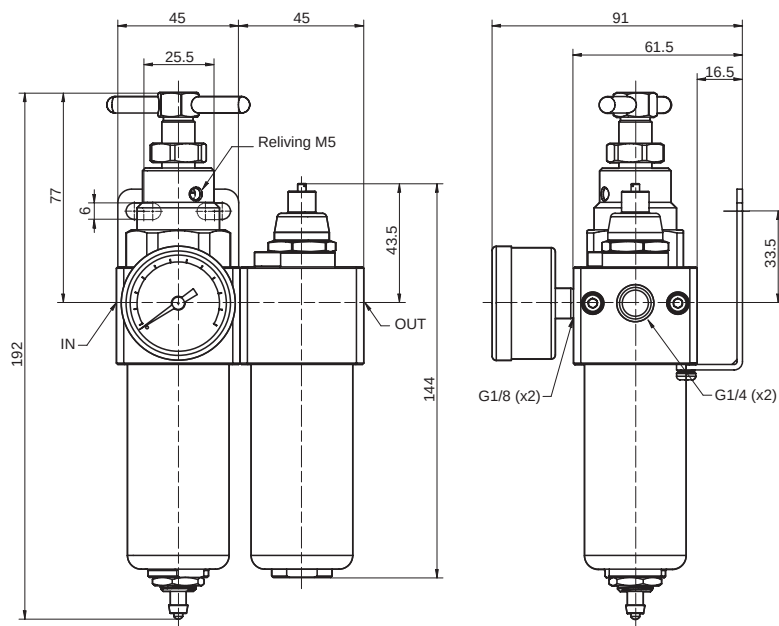
| Technical data         |                                                           |                                           |                                                |             |            |
|------------------------|-----------------------------------------------------------|-------------------------------------------|------------------------------------------------|-------------|------------|
| Item                   | A14FRRLX                                                  | A14FRRX                                   | A14FX                                          | A14RX       | A14LX      |
| Pressure               | 30 bar                                                    |                                           |                                                |             |            |
| Regulation range       | 0,5 ÷ 20 bar                                              |                                           |                                                |             |            |
| Overpressure exhaust   | Reliving M5                                               | Reliving M5                               | -                                              | Reliving M5 | -          |
| Pressure regulator     | Piston                                                    | Piston                                    | -                                              | Piston      | -          |
| Max. flow rate (l/min) | 1850 l/min                                                | 1850 l/min                                | 1900 l/min                                     | 1850 l/min  | 2500 l/min |
| Temperature range      | -10°C ÷ +70°C (std)<br>-40°C ÷ +70°C (BT)                 | -10°C ÷ +70°C (std)<br>-40°C ÷ +70°C (BT) | -10°C ÷ +70°C (standard)<br>-40°C ÷ +70°C (BT) |             |            |
| Suggested oil          | With ISO VG 32 viscosity according to normative ISO 3448  |                                           |                                                |             |            |
| Filtering element      | 5 µm (standard)<br>40 µm (on request)                     | 5 µm (standard)<br>40 µm (on request)     | 5 µm (standard)<br>40 µm (on request)          | -           | -          |
| Condense drain         | Semi-automatic (standard) - manual/automatic (on request) |                                           |                                                | -           | -          |
| Cup capacity           | Filter: 105 cm³<br>Lubricator: 125 cm³                    | 105 cm³                                   | 105 cm³                                        | -           | 125 cm³    |
| Weight                 | 2660 g                                                    | 1380 g                                    | 1260 g                                         | 1200 g      | 1200 g     |



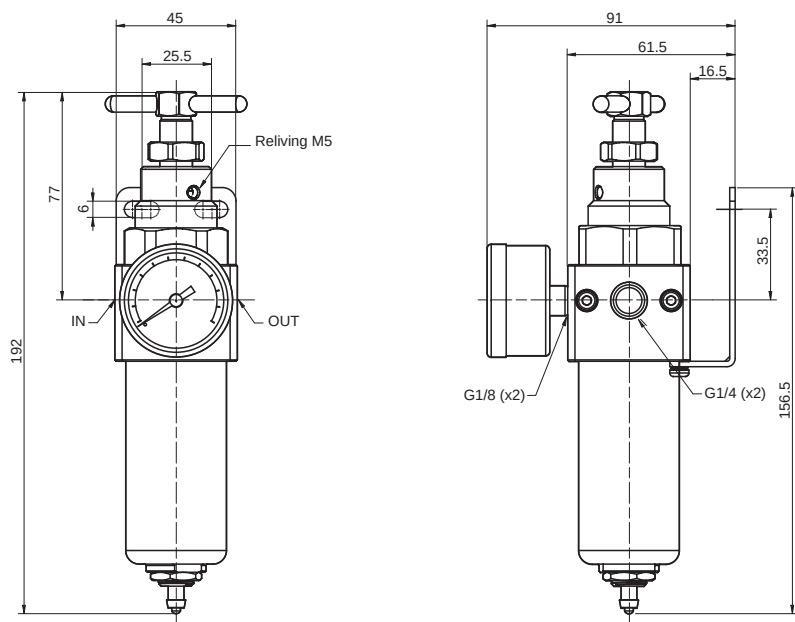
Materials

|   |                          |                            |    |                  |                            |
|---|--------------------------|----------------------------|----|------------------|----------------------------|
| 1 | Pressure regulator screw | Stainless steel AISI 316   | 9  | Lubricator cover | Stainless steel AISI 316   |
| 2 | Pressure regulator cup   | Stainless steel AISI 316   | 10 | Lubricator body  | Stainless steel AISI 316   |
| 3 | Regulator body           | Stainless steel AISI 316   | 11 | Cover            | Stainless steel AISI 316   |
| 4 | O-ring seal              | FKM (standard) - EPDM (BT) | 12 | Fitting          | Stainless steel AISI 316   |
| 5 | Filtering element        | Stainless steel AISI 316   | 13 | O-ring seal      | FKM (standard) - EPDM (BT) |
| 6 | Filter cup               | Stainless steel AISI 316   | 14 | Pipe             | PU                         |
| 7 | Drain unit               | Stainless steel AISI 316   | 15 | Lubricator cup   | Stainless steel AISI 316   |
| 8 | Oil regulation screw     | Stainless steel AISI 316   |    |                  |                            |

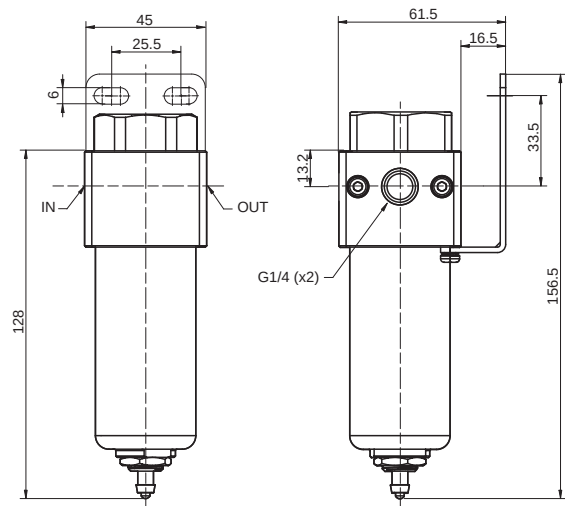
| Description          | Code   | Item        |
|----------------------|--------|-------------|
| Screw kit and o-ring | 090618 | VOXKIT-1/4" |



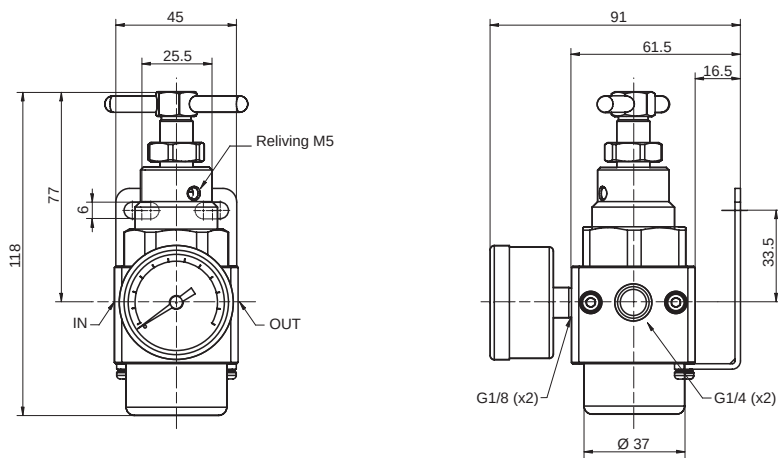
| Version                       | Symbol | Code   | Item     |
|-------------------------------|--------|--------|----------|
| Filter-regulator + lubricator |        | 090604 | A14FRRLX |



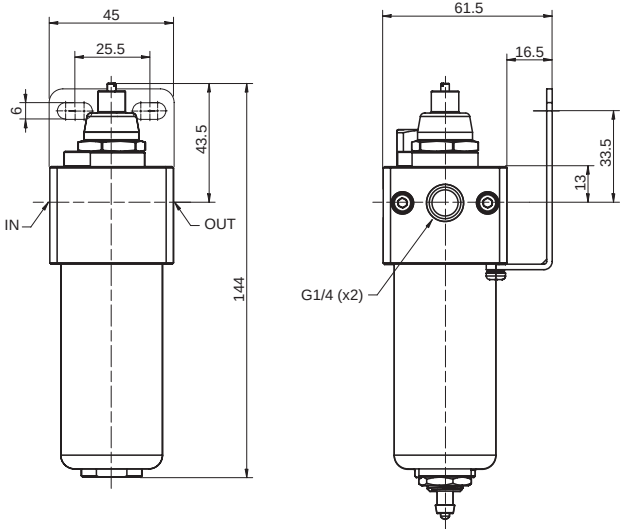
| Version          | Symbol | Code   | Item    |
|------------------|--------|--------|---------|
| Filter-regulator |        | 090601 | A14FRRX |



| Version | Symbol | Code   | Item  |
|---------|--------|--------|-------|
| Filter  |        | 090607 | A14FX |



| Version   | Symbol | Code   | Item  |
|-----------|--------|--------|-------|
| Regulator |        | 090610 | A14RX |



| Version    | Symbol                                                                                | Code   | Item  |
|------------|---------------------------------------------------------------------------------------|--------|-------|
| Lubricator |  | 090613 | A14LX |

| Standard executions           |        |        |          |
|-------------------------------|--------|--------|----------|
| Version                       | Symbol | Code   | Item     |
| Filter-regulator + lubricator |        | 090605 | A12FRRLX |
| Filter-regulator              |        | 090602 | A12FRRX  |
| Filter                        |        | 090608 | A12FX    |
| Regulator                     |        | 090611 | A12RX    |
| Lubricator                    |        | 090614 | A12LX    |



On request, they can be supplied according to 2014/34/EU - ATEX

| Options                                 | Suffix |
|-----------------------------------------|--------|
| High pressure (12 ÷ 28 bar)             | HP     |
| Filter 40 µm cartridge                  | 40     |
| NPT thread                              | N      |
| Manual condense drain                   | H      |
| Automatic condense drain                | D      |
| Seals for low temperature -40°C ÷ +70°C | BT     |



Series of modular units in stainless steel AISI 316 suitable for industrial application like: food, medical, chemical, Oil & Gas and mining.

Light weight and compact size for space saving, the air preparation units have the following standard features :

- For high pressure use, corrosion and chemical resistance;
- Good performance in chemical working environments and outdoor facility;
- Suitable for food, medical, chemical, off-shore and mining industry;
- Metallic parts meet NACE Standard MR-01-75;
- The product effectively removes water and particle;
- Accurate and sensitive pressure setting;
- Lubricator oil can be replenished without stopping air supply.

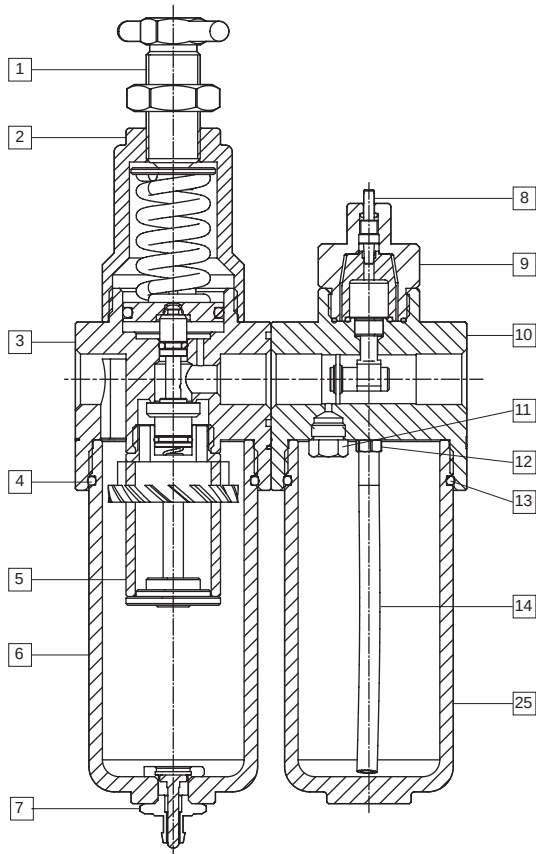
The modular units are supplied together with the bracket nuts and gauge always in stainless steel material.

Order separately screw kit and o-ring for mounting FRRX + LX, see page 5.140.41

How to order: A12FRRX40N

| A12FRRX | 40     | N      |
|---------|--------|--------|
| Version | Option | Option |

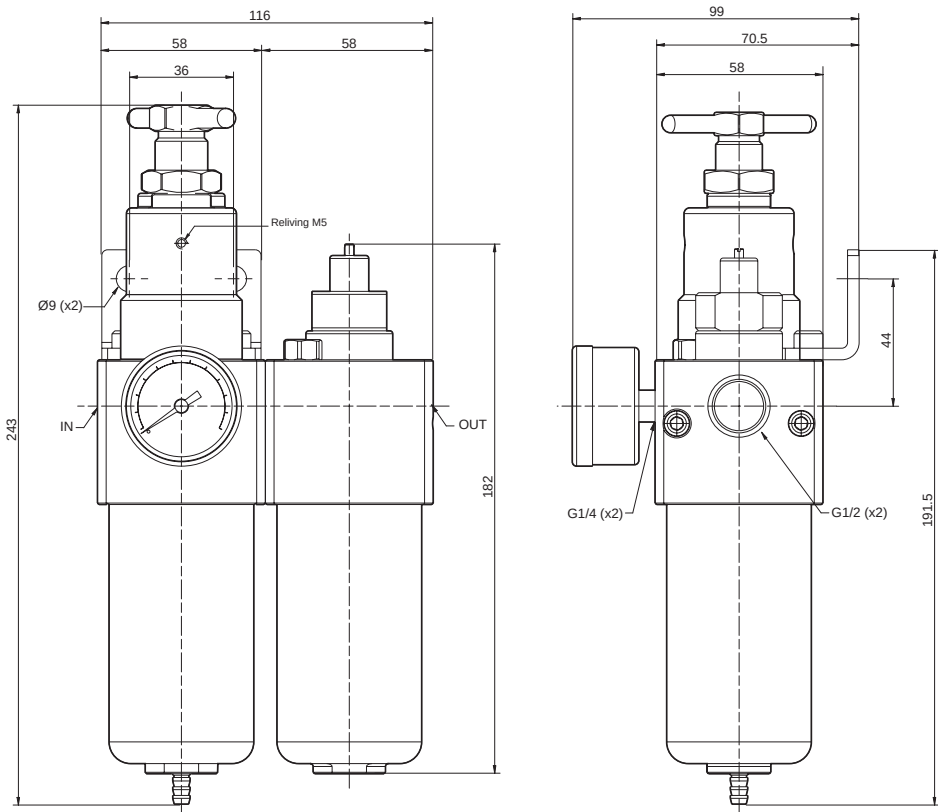
| Technical data         |                                                          |                                           |                                                |             |            |
|------------------------|----------------------------------------------------------|-------------------------------------------|------------------------------------------------|-------------|------------|
| Item                   | A12FRRLX                                                 | A12FRRX                                   | A12FX                                          | A12RX       | A12LX      |
| Pressure               | 60 bar                                                   |                                           |                                                |             |            |
| Regulation range       | 0,5 ÷ 12 bar (standard) - 12 ÷ 28 bar (HP)               |                                           |                                                |             |            |
| Overpressure exhaust   | Reliving M5                                              | Reliving M5                               | -                                              | Reliving M5 | -          |
| Pressure regulator     | Piston                                                   | Piston                                    | -                                              | Piston      | -          |
| Max. flow rate (l/min) | 2500 l/min                                               | 3800 l/min                                | 3030 l/min                                     | 2520 l/min  | 4100 l/min |
| Temperature range      | -10°C ÷ +70°C (std)<br>-40°C ÷ +70°C (BT)                | -10°C ÷ +70°C (std)<br>-40°C ÷ +70°C (BT) | -10°C ÷ +70°C (standard)<br>-40°C ÷ +70°C (BT) |             |            |
| Suggested oil          | With ISO VG 32 viscosity according to normative ISO 3448 |                                           |                                                |             |            |
| Filtering element      | 5 µm (standard)<br>40 µm (on request)                    | 5 µm (standard)<br>40 µm (on request)     | 5 µm (standard)<br>40 µm (on request)          | -           | -          |
| Condense drain         | Semi-automatic (standard) - On request manual/automatic  |                                           |                                                | -           | -          |
| Cup capacity           | Filter: 110 cm³<br>Lubricator: 130 cm³                   | 110 cm³                                   | 110 cm³                                        | -           | 130 cm³    |
| Weight                 | 3840 g                                                   | 2000 g                                    | 1650 g                                         | 1400 g      | 1750 g     |



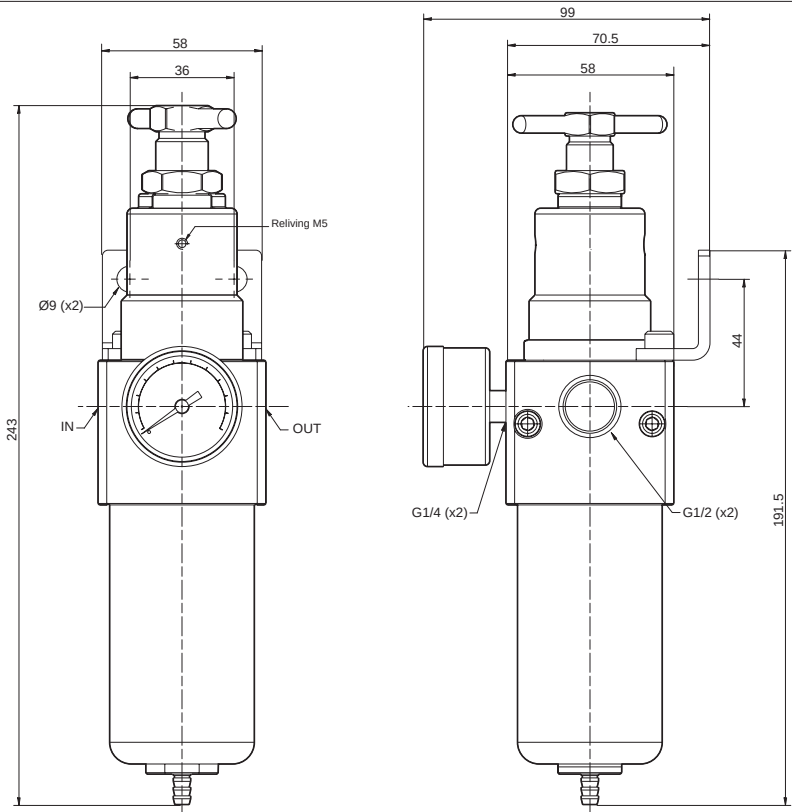
| Materials |                          |                            |    |                  |
|-----------|--------------------------|----------------------------|----|------------------|
| 1         | Pressure regulator screw | Stainless steel AISI 316   | 9  | Lubricator cover |
| 2         | Pressure regulator cup   | Stainless steel AISI 316   | 10 | Lubricator body  |
| 3         | Regulator body           | Stainless steel AISI 316   | 11 | Cover            |
| 4         | O-ring seal              | FKM (standard) - EPDM (BT) | 12 | Fitting          |
| 5         | Filtering element        | Stainless steel AISI 316   | 13 | O-ring seal      |
| 6         | Filter cup               | Stainless steel AISI 316   | 14 | Pipe             |
| 7         | Drain unit               | Stainless steel AISI 316   | 15 | Lubricator cup   |
| 8         | Oil regulation screw     | Stainless steel AISI 316   |    |                  |

| Description          | Code   | Item        |
|----------------------|--------|-------------|
| Screw kit and o-ring | 090619 | VOXKIT-1/2" |

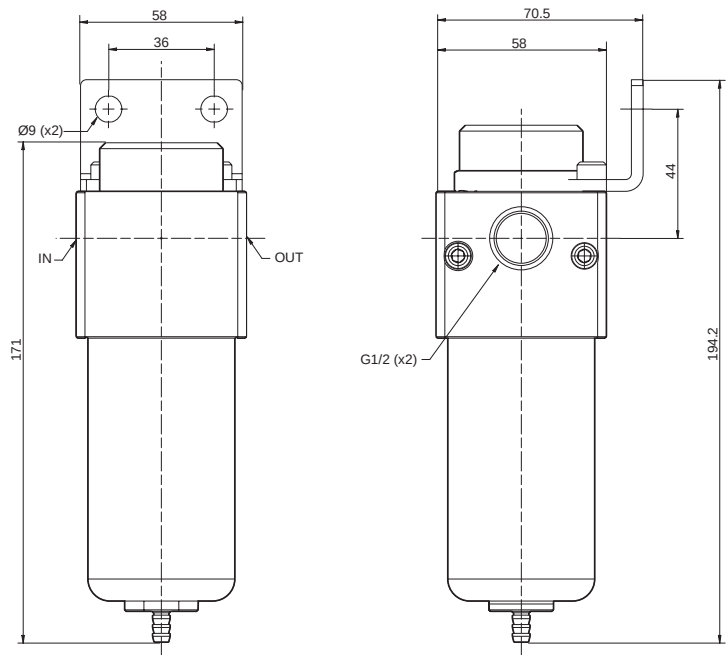




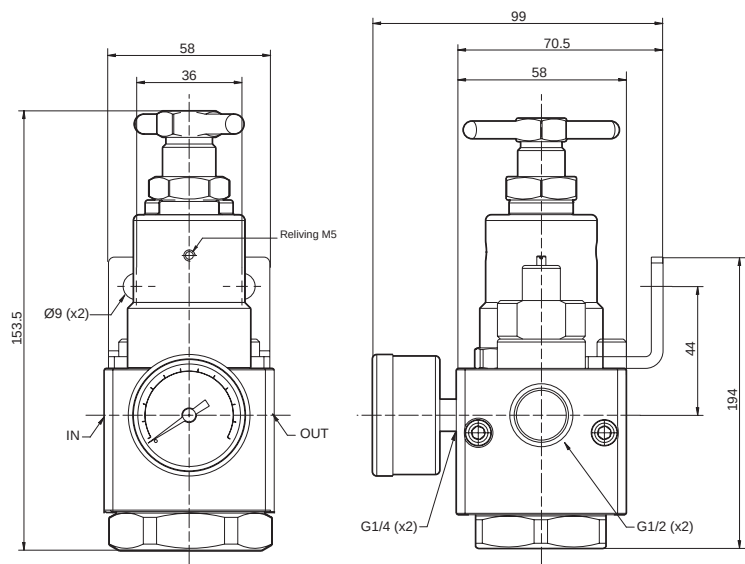
| Version                       | Symbol | Code   | Item     |
|-------------------------------|--------|--------|----------|
| Filter-regulator + lubricator |        | 090605 | A12FRRLX |



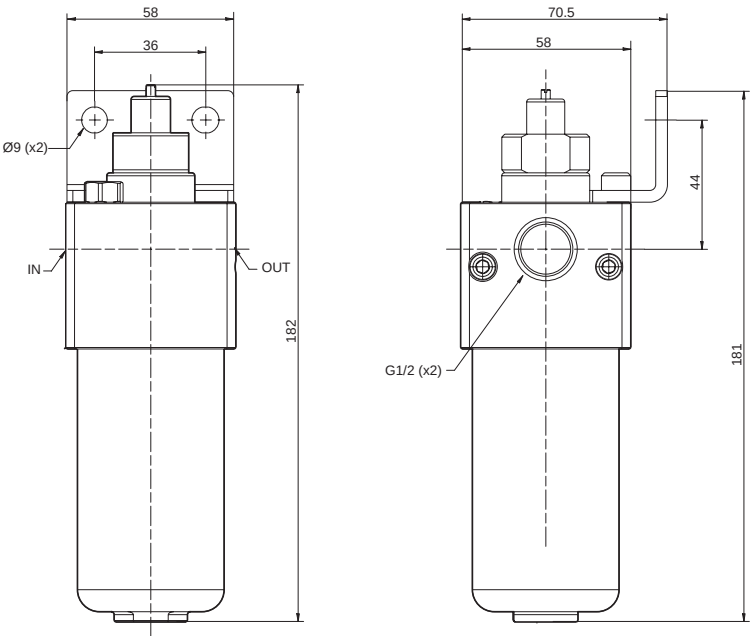
| Version          | Symbol | Code   | Item    |
|------------------|--------|--------|---------|
| Filter-regulator |        | 090602 | A12FRRX |



| Version | Symbol | Code   | Item  |
|---------|--------|--------|-------|
| Filter  |        | 090608 | A12FX |



| Version   | Symbol | Code   | Item  |
|-----------|--------|--------|-------|
| Regulator |        | 090611 | A12RX |



| Version    | Symbol                                                                                | Code   | Item  |
|------------|---------------------------------------------------------------------------------------|--------|-------|
| Lubricator |  | 090614 | A12LX |

| Standard executions           |        |        |          |
|-------------------------------|--------|--------|----------|
| Version                       | Symbol | Code   | Item     |
| Filter-regulator + Lubricator |        | 090606 | A01FRRLX |
| Filter-regulator              |        | 090603 | A01FRRX  |
| Filter                        |        | 090609 | A01FX    |
| Regulator                     |        | 090612 | A01RX    |
| Lubricator                    |        | 090615 | A01LX    |



On request, they can be supplied according to 2014/34/EU - ATEX

| Options                                 | Suffix |
|-----------------------------------------|--------|
| High pressure (12 ÷ 28 bar)             | HP     |
| Filter 40 µm cartridge                  | 40     |
| NPT thread                              | N      |
| Manual condense drain                   | H      |
| Automatic condense drain                | D      |
| Seals for low temperature -40°C ÷ +70°C | BT     |



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- Suitable for food, medical, chemical, off-shore and mining industry;
- Metallic parts meet NACE Standard MR-01-75;
- The product effectively removes water and particle;
- Accurate and sensitive pressure setting;
- Lubricator oil can be replenished without stopping air supply.

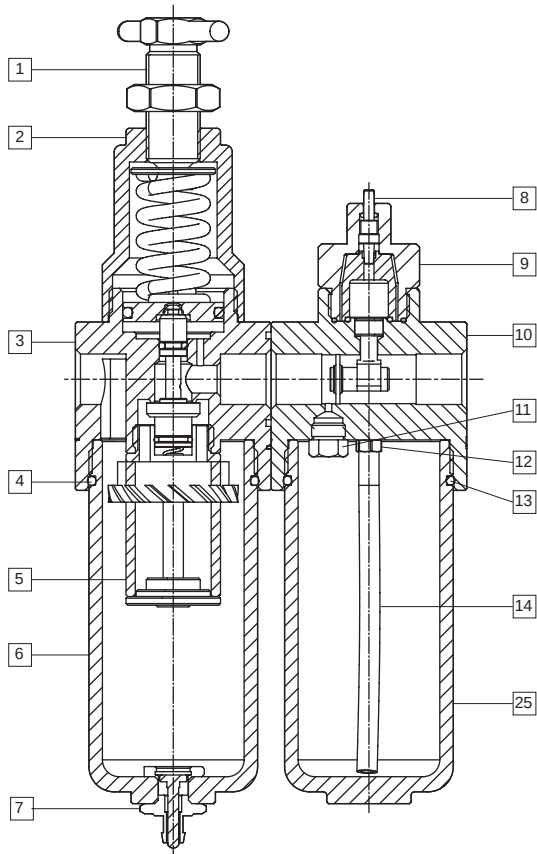
The modular units are supplied together with the bracket nuts and gauge always in stainless steel material.

Order separately screw kit and o-ring for mounting FRRX + LX, see page 5.140.61

How to order: A01FRRX40N

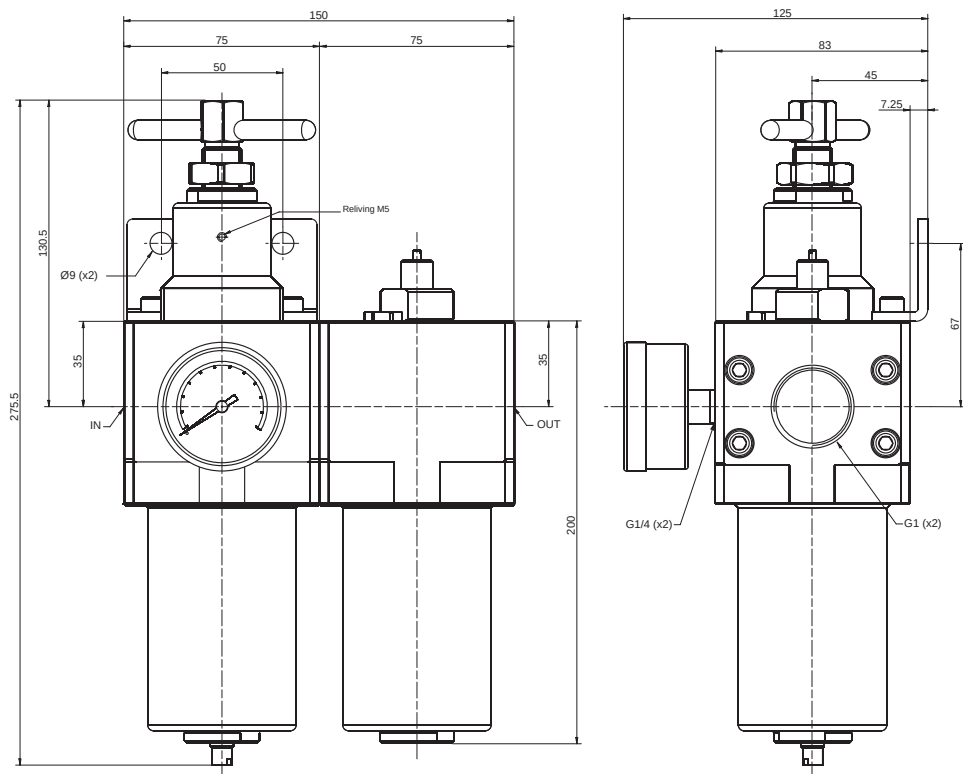
| A01FRRX | 40     | N      |
|---------|--------|--------|
| Version | Option | Option |

| Technical data         |                                                          |                                           |                                                |             |             |
|------------------------|----------------------------------------------------------|-------------------------------------------|------------------------------------------------|-------------|-------------|
| Item                   | A01FRRLX                                                 | A01FRRX                                   | A01FX                                          | A01RX       | A01LX       |
| Pressure               | 60 bar (with viewer on cup: 15bar)                       |                                           |                                                |             |             |
| Regulation range       | 0,5 ÷ 12 bar (standard) - 12 ÷ 28 bar (HP)               |                                           |                                                |             |             |
| Overpressure exhaust   | Reliving M5                                              | Reliving M5                               | -                                              | Reliving M5 | -           |
| Pressure regulator     | Piston                                                   | Piston                                    | -                                              | Piston      | -           |
| Max. flow rate (l/min) | 8000 l/min                                               | 8900 l/min                                | 9600 l/min                                     | 9400 l/min  | 13200 l/min |
| Temperature range      | -10°C ÷ +70°C (std)<br>-40°C ÷ +70°C (BT)                | -10°C ÷ +70°C (std)<br>-40°C ÷ +70°C (BT) | -10°C ÷ +70°C (standard)<br>-40°C ÷ +70°C (BT) |             |             |
| Suggested oil          | With ISO VG 32 viscosity according to normative ISO 3448 |                                           |                                                |             |             |
| Filtering element      | 5 µm (standard)<br>40 µm (on request)                    | 5 µm (standard)<br>40 µm (on request)     | 5 µm (standard)<br>40 µm (on request)          | -           | -           |
| Condense drain         | Semi-automatic (standard) - On request manual/automatic  |                                           |                                                | -           | -           |
| Cup capacity           | Filter: 200 cm³<br>Lubricator: 220 cm³                   | 200 cm³                                   | 200 cm³                                        | -           | 220 cm³     |
| Weight                 | 7960 g                                                   | 4580 g                                    | 3950 g                                         | 3400 g      | 3360 g      |

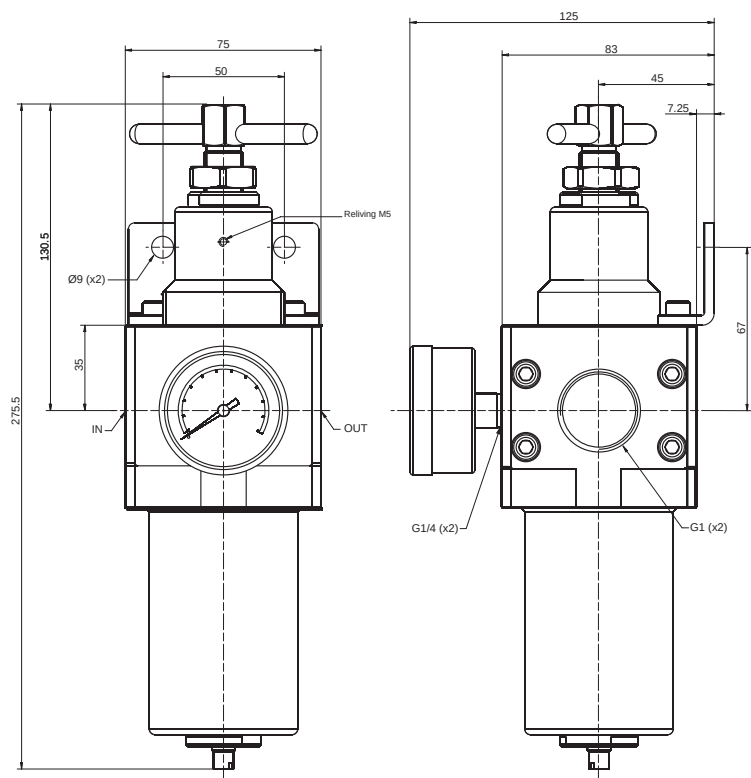


| Materials |                          |                            |    |                  |
|-----------|--------------------------|----------------------------|----|------------------|
| 1         | Pressure regulator screw | Stainless steel AISI 316   | 9  | Lubricator cover |
| 2         | Pressure regulator cup   | Stainless steel AISI 316   | 10 | Lubricator body  |
| 3         | Regulator body           | Stainless steel AISI 316   | 11 | Cover            |
| 4         | O-ring seal              | FKM (standard) - EPDM (BT) | 12 | Fitting          |
| 5         | Filtering element        | Stainless steel AISI 316   | 13 | O-ring seal      |
| 6         | Filter cup               | Stainless steel AISI 316   | 14 | Pipe             |
| 7         | Drain unit               | Stainless steel AISI 316   | 15 | Lubricator cup   |
| 8         | Oil regulation screw     | Stainless steel AISI 316   |    |                  |
|           |                          |                            |    |                  |

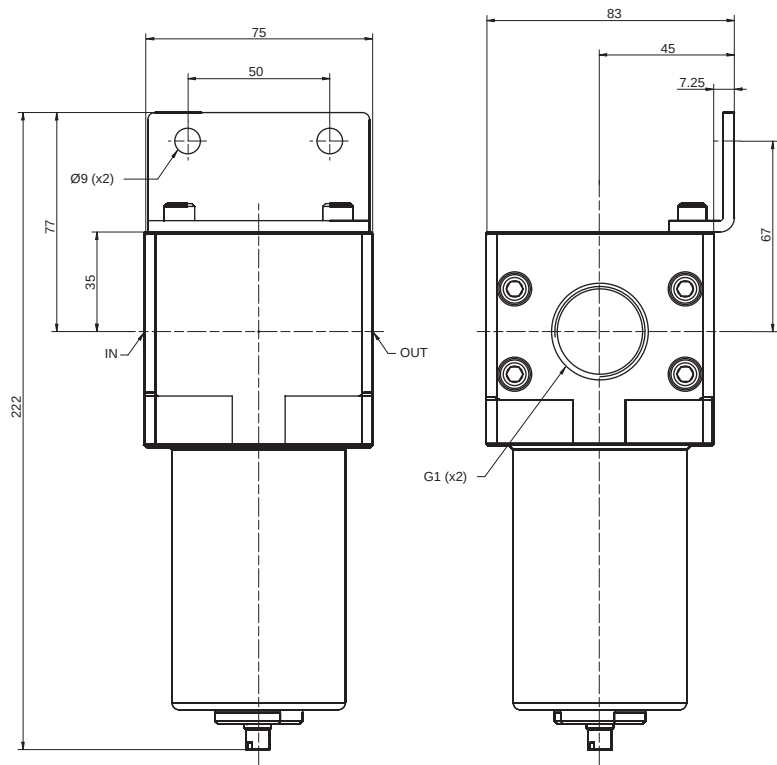
| Description          | Code   | Item      |
|----------------------|--------|-----------|
| Screw kit and o-ring | 090620 | VOXKIT-1" |



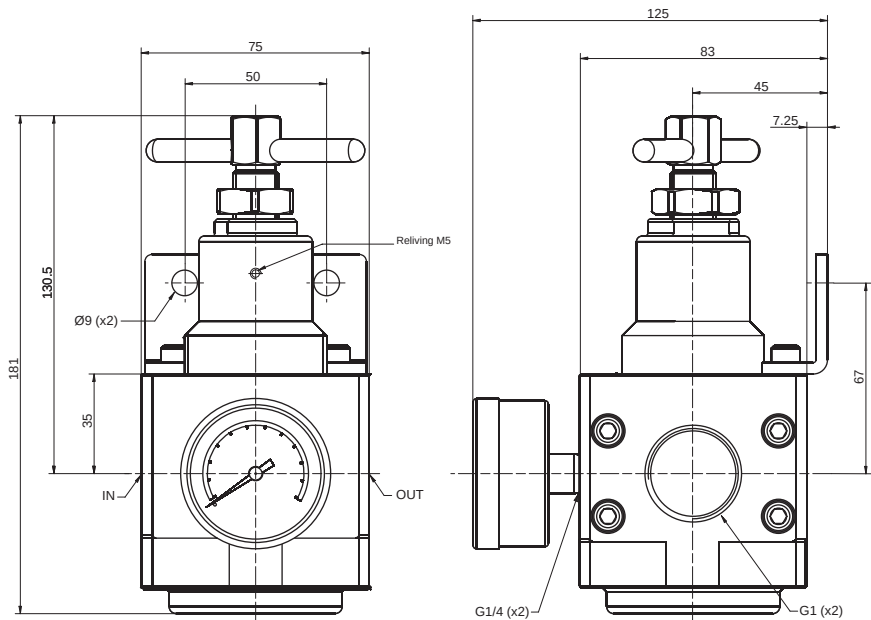
| Version                          | Symbol | Code   | Item     |
|----------------------------------|--------|--------|----------|
| Filter-regulator<br>+ lubricator |        | 090606 | A01FRRLX |



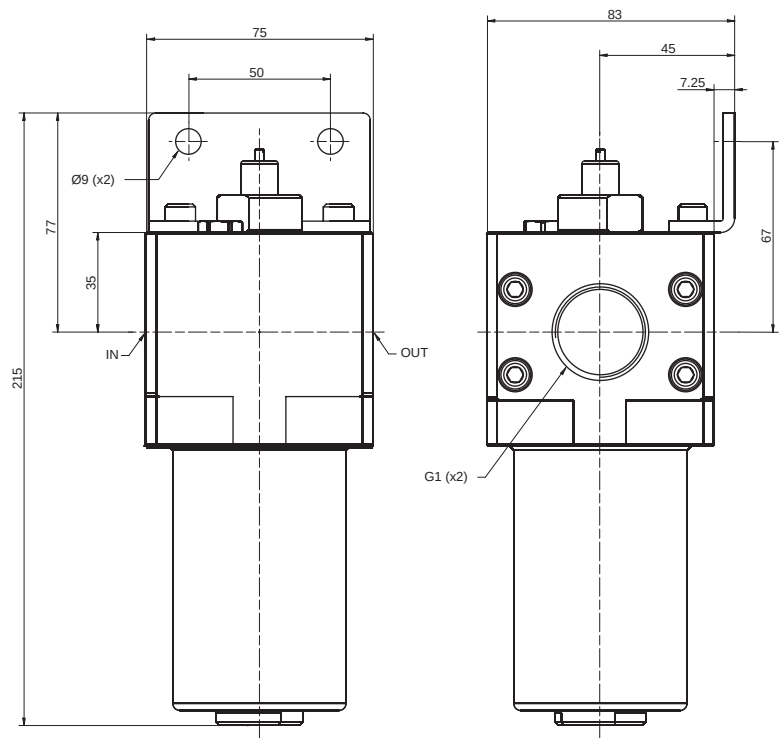
| Version          | Symbol | Code   | Item    |
|------------------|--------|--------|---------|
| Filter-regulator |        | 090603 | A01FRRX |



| Version | Symbol | Code   | Item  |
|---------|--------|--------|-------|
| Filter  |        | 090609 | A01FX |



| Version   | Symbol | Code   | Item  |
|-----------|--------|--------|-------|
| Regulator |        | 090612 | A01RX |



| Version    | Symbol | Code   | Item  |
|------------|--------|--------|-------|
| Lubricator |        | 090615 | A01LX |



# Stainless Steel push-in fittings

## Series RX, in AISI 316 L



| Version            | Type |
|--------------------|------|
| BSPT stud          | RX11 |
| BSP stud           | RX12 |
| Union              | RX26 |
| Bulkhead           | RX27 |
| Reducer            | RX25 |
| BSPT elbow         | RX14 |
| BSPT swivel elbow  | RX15 |
| BSP swivel elbow   | RX16 |
| Equal elbow        | RX28 |
| BSPT swivel tee    | RX20 |
| BSP swivel tee     | RX21 |
| Equal tee          | RX29 |
| Single hollow bolt | RX31 |
| Single banjo       | RX35 |



Series of stainless steel push-in fittings with reduced dimensions and new collet and release collar.

They are for connecting nylon and polyurethane tubes. Available in various configurations (studs, elbows, T) and with threads Gas pre-tefloned taper (BSPT) and Gas parallel (BSP) with sealing o-ring.

The stud threaded versions are standard with external and internal hexagonal key (for mounting in narrow places).

\* How to order: RX110618

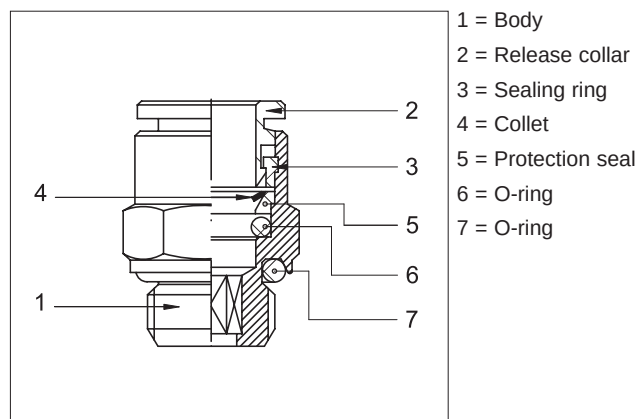
| RX11 | 06          | 18                  |
|------|-------------|---------------------|
| Type | Code ø Tube | Tube or thread code |

\* For standard items, codes and dimensions see tables from page. 5.150.2

|                      |    |    |    |    |    |
|----------------------|----|----|----|----|----|
| External tube ø (mm) | 4  | 6  | 8  | 10 | 12 |
| Code                 | 04 | 06 | 08 | 10 | 12 |

|         |    |      |      |      |      |
|---------|----|------|------|------|------|
| Threads | M5 | 1/8" | 1/4" | 3/8" | 1/2" |
| Code    | M5 | 18   | 14   | 38   | 12   |

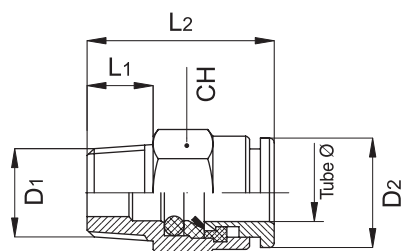
|                     |                                                              |
|---------------------|--------------------------------------------------------------|
| APPLICATION FIELDS: | Chemical<br>Pharmaceutics<br>Medicine<br>Food<br>Electronics |
|---------------------|--------------------------------------------------------------|



| Technical data    |                                                                                    |                                                                                             |
|-------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Fluid             | Compressed air, gases, acids, fluids.                                              |                                                                                             |
| Pressure range    | 0,5 ÷ 12 bar                                                                       |                                                                                             |
| Temperature range | -20 °C ÷ + 150°C                                                                   |                                                                                             |
| Parallel threads  | UNI - ISO 228 / 1 (BSP)                                                            |                                                                                             |
| Taper threads     | UNI - ISO 7 / 1 (BSPT)                                                             |                                                                                             |
| Metric threads    | ISO R / 262                                                                        |                                                                                             |
| Connection tubes  | Calibrated nylon, polyurethane and rilsan                                          |                                                                                             |
| Tube tolerance    | ± 0,05 mm                                                                          |                                                                                             |
| Materials         | Body and release collar:<br>Sealing ring and protection ring:<br>Collet:<br>Seals: | Stainless steel AISI 316 L<br>Stainless steel AISI 316 L<br>Stainless Steel AISI 301<br>FKM |

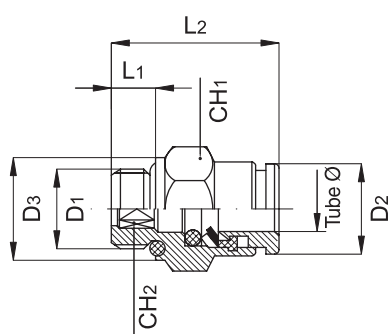
# Stainless Steel push-in fittings

## Series RX, in AISI 316 L



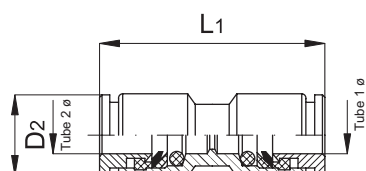
BSPT stud

| Code   | Item        | Tube ø | D <sub>1</sub> | D <sub>2</sub> | L <sub>1</sub> | L <sub>2</sub> | CH |
|--------|-------------|--------|----------------|----------------|----------------|----------------|----|
| 020901 | RX 11 04 18 | 4      | 1/8"           | 9              | 7,5            | 15,5           | 10 |
| 020902 | RX 11 04 14 | 4      | 1/4"           | 9              | 11             | 20             | 14 |
| 020903 | RX 11 06 18 | 6      | 1/8"           | 12             | 7,5            | 20,5           | 12 |
| 020904 | RX 11 06 14 | 6      | 1/4"           | 12             | 11             | 20             | 14 |
| 020905 | RX 11 08 18 | 8      | 1/8"           | 14             | 7,5            | 24,5           | 14 |
| 020906 | RX 11 08 14 | 8      | 1/4"           | 14             | 11             | 23             | 14 |
| 020907 | RX 11 10 14 | 10     | 1/4"           | 16             | 11             | 30             | 16 |
| 020908 | RX 11 10 38 | 10     | 3/8"           | 16             | 11,5           | 23,5           | 17 |
| 020909 | RX 11 12 38 | 12     | 3/8"           | 18             | 11,5           | 27             | 18 |
| 020910 | RX 11 12 12 | 12     | 1/2"           | 18             | 14             | 27             | 22 |



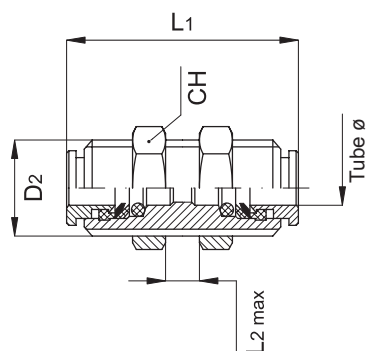
BSP stud

| Code   | Item        | Tube ø | D <sub>1</sub> | D <sub>2</sub> | D <sub>3</sub> | L <sub>1</sub> | L <sub>2</sub> | CH <sub>1</sub> | CH <sub>2</sub> |
|--------|-------------|--------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|
| 020915 | RX 12 04 M5 | 4      | M5             | 9              | 8              | 4              | 19             | 9               | -               |
| 020916 | RX 12 04 18 | 4      | 1/8"           | 9              | 13             | 5              | 16             | 13              | 3               |
| 020917 | RX 12 06 18 | 6      | 1/8"           | 12             | 13             | 5              | 19             | 13              | 4               |
| 020918 | RX 12 06 14 | 6      | 1/4"           | 12             | 16             | 6,5            | 18,5           | 16              | 4               |
| 020919 | RX 12 08 18 | 8      | 1/8"           | 14             | 13             | 5              | 22,5           | 14              | 6               |
| 020920 | RX 12 08 14 | 8      | 1/4"           | 14             | 16             | 6,5            | 21             | 16              | 6               |
| 020911 | RX 12 10 14 | 10     | 1/4"           | 16             | 16             | 6,5            | 27,5           | 16              | 8               |
| 020912 | RX 12 10 38 | 10     | 3/8"           | 16             | 20             | 7              | 25             | 17              | 8               |
| 020913 | RX 12 12 38 | 12     | 3/8"           | 19             | 20             | 7              | 28,5           | 21              | 10              |
| 020914 | RX 12 12 12 | 12     | 1/2"           | 19             | 25             | 8,5            | 26,5           | 22              | 10              |



Union

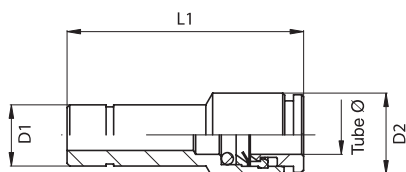
| Code   | Item        | Tube ø <sub>1</sub> | Tube ø <sub>2</sub> | D <sub>2</sub> | L <sub>1</sub> |
|--------|-------------|---------------------|---------------------|----------------|----------------|
| 020925 | RX 26 04 04 | 4                   | 4                   | 9              | 27             |
| 020924 | RX 26 06 04 | 6                   | 4                   | 12             | 31             |
| 020926 | RX 26 06 06 | 6                   | 6                   | 12             | 32,5           |
| 020935 | RX 26 08 06 | 8                   | 6                   | 14             | 34             |
| 020927 | RX 26 08 08 | 8                   | 8                   | 14             | 33             |
| 020928 | RX 26 10 10 | 10                  | 10                  | 16             | 37,5           |
| 020929 | RX 26 12 12 | 12                  | 12                  | 18             | 39,5           |



Bulkhead

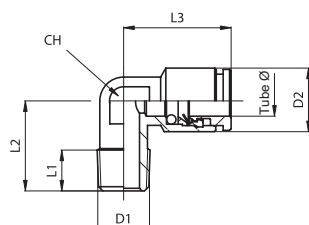
| Code   | Item        | Tube ø | D <sub>2</sub> | L <sub>1</sub> | L <sub>2</sub> max | CH |
|--------|-------------|--------|----------------|----------------|--------------------|----|
| 020930 | RX 27 04 04 | 4      | 12x1           | 27             | 11                 | 15 |
| 020931 | RX 27 06 06 | 6      | 14x1           | 32,5           | 16                 | 17 |
| 020932 | RX 27 08 08 | 8      | 16x1           | 33             | 17                 | 19 |
| 020933 | RX 27 10 10 | 10     | 18x1           | 37,5           | 19                 | 21 |
| 020934 | RX 27 12 12 | 12     | 20x1           | 39,5           | 20                 | 24 |

# Stainless Steel push-in fittings Series RX, in AISI 316 L



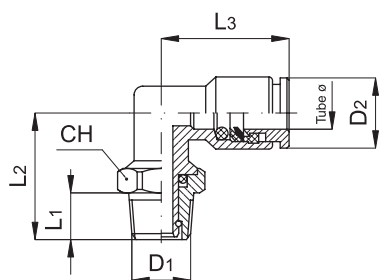
Reducer

| Code   | Item        | Tube ø | D1 | D2 | L1   |
|--------|-------------|--------|----|----|------|
| 020921 | RX 25 04 06 | 4      | 6  | 9  | 31   |
| 020922 | RX 25 06 08 | 6      | 8  | 12 | 33   |
| 020923 | RX 25 08 10 | 8      | 10 | 14 | 34,5 |



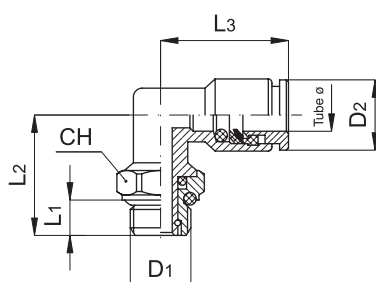
BSPT elbow

| Code   | Item        | Tube ø | D1   | D2 | L1  | L2   | L3   |
|--------|-------------|--------|------|----|-----|------|------|
| 020956 | RX 14 04 18 | 4      | 1/8" | 9  | 7,5 | 16   | 17   |
| 020957 | RX 14 06 18 | 6      | 1/8" | 12 | 7,5 | 16   | 20   |
| 020958 | RX 14 06 14 | 6      | 1/4" | 12 | 11  | 20   | 20   |
| 020959 | RX 14 08 18 | 8      | 1/8" | 14 | 7,5 | 17   | 21   |
| 020949 | RX 14 08 14 | 8      | 1/4" | 14 | 11  | 20   | 21   |
| 020946 | RX 14 10 14 | 10     | 1/4" | 16 | 11  | 22,5 | 25,5 |



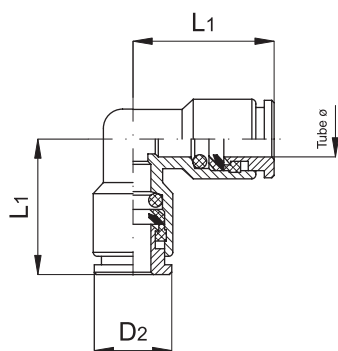
BSPT swivel elbow

| Code   | Item        | Tube ø | D1   | D2 | L3   | L1   | L2   | CH |
|--------|-------------|--------|------|----|------|------|------|----|
| 020936 | RX 15 04 18 | 4      | 1/8" | 9  | 17   | 7,5  | 17,5 | 10 |
| 020937 | RX 15 06 18 | 6      | 1/8" | 12 | 21,5 | 7,5  | 20   | 13 |
| 020938 | RX 15 06 14 | 6      | 1/4" | 12 | 21,5 | 11   | 24   | 14 |
| 020939 | RX 15 08 18 | 8      | 1/8" | 14 | 22   | 7,5  | 20   | 13 |
| 020940 | RX 15 08 14 | 8      | 1/4" | 14 | 22   | 11   | 24   | 14 |
| 020941 | RX 15 10 14 | 10     | 1/4" | 16 | 25,5 | 11   | 26,5 | 16 |
| 020942 | RX 15 10 38 | 10     | 3/8" | 16 | 25,5 | 11,5 | 27   | 17 |
| 020943 | RX 15 12 38 | 12     | 3/8" | 18 | 28   | 11,5 | 30,5 | 21 |
| 020944 | RX 15 12 12 | 12     | 1/2" | 18 | 28   | 14   | 33,5 | 22 |



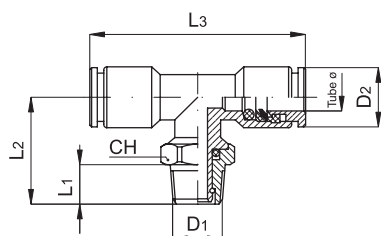
BSP swivel elbow

| Code   | Item        | Tube ø | D1   | D2 | L1  | L2   | L3   | CH |
|--------|-------------|--------|------|----|-----|------|------|----|
| 020950 | RX 16 04 M5 | 4      | M5   | 9  | 4   | 14   | 17   | 9  |
| 020951 | RX 16 04 18 | 4      | 1/8" | 9  | 5   | 16   | 17   | 13 |
| 020952 | RX 16 06 18 | 6      | 1/8" | 12 | 5   | 18   | 21,5 | 13 |
| 020953 | RX 16 06 14 | 6      | 1/4" | 12 | 6,5 | 20   | 21,5 | 16 |
| 020954 | RX 16 08 18 | 8      | 1/8" | 14 | 5   | 18   | 22   | 13 |
| 020955 | RX 16 08 14 | 8      | 1/4" | 14 | 6,5 | 20   | 22   | 16 |
| 020947 | RX 16 10 14 | 10     | 1/4" | 16 | 6,5 | 22,5 | 25,5 | 16 |
| 020983 | RX 16 10 38 | 10     | 3/8" | 16 | 7   | 24   | 25,5 | 21 |
| 020984 | RX 16 12 38 | 12     | 3/8" | 19 | 7   | 26,5 | 28   | 21 |
| 020985 | RX 16 12 12 | 12     | 1/2" | 19 | 8,5 | 31   | 28   | 22 |



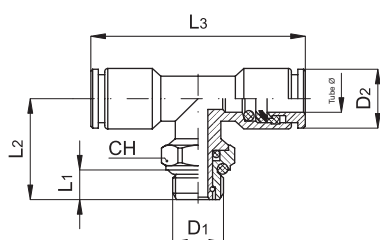
Equal elbow

| Code   | Item        | Tube ø | D <sub>2</sub> | L <sub>1</sub> |
|--------|-------------|--------|----------------|----------------|
| 020960 | RX 28 04 04 | 4      | 9              | 17             |
| 020961 | RX 28 06 06 | 6      | 12             | 20             |
| 020962 | RX 28 08 08 | 8      | 14             | 21             |
| 020963 | RX 28 10 10 | 10     | 16             | 25             |
| 020964 | RX 28 12 12 | 12     | 18             | 27             |



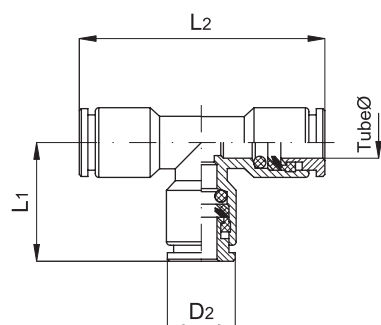
BSPT swivel tee

| Code   | Item        | Tube ø | D <sub>1</sub> | D <sub>2</sub> | L <sub>1</sub> | L <sub>2</sub> | L <sub>3</sub> | CH |
|--------|-------------|--------|----------------|----------------|----------------|----------------|----------------|----|
| 020966 | RX 20 04 18 | 4      | 1/8"           | 9              | 7,5            | 21,5           | 34             | 10 |
| 020967 | RX 20 06 18 | 6      | 1/8"           | 12             | 7,5            | 24,5           | 42             | 13 |
| 020968 | RX 20 06 14 | 6      | 1/4"           | 12             | 11             | 28,5           | 42             | 14 |
| 020969 | RX 20 08 18 | 8      | 1/8"           | 14             | 7,5            | 24,5           | 43             | 13 |
| 020970 | RX 20 08 14 | 8      | 1/4"           | 14             | 11             | 28,5           | 43             | 14 |
| 020971 | RX 20 10 14 | 10     | 1/4"           | 16             | 11             | 32             | 50             | 16 |
| 020972 | RX 20 10 38 | 10     | 3/8"           | 16             | 11,5           | 32,5           | 50             | 17 |



BSP swivel tee

| Code   | Item        | Tube ø | D <sub>1</sub> | D <sub>2</sub> | L <sub>1</sub> | L <sub>2</sub> | L <sub>3</sub> | CH |
|--------|-------------|--------|----------------|----------------|----------------|----------------|----------------|----|
| 020974 | RX 21 04 M5 | 4      | M5             | 9              | 4              | 18             | 34             | 9  |
| 020975 | RX 21 04 18 | 4      | 1/8"           | 9              | 5              | 20             | 34             | 13 |
| 020976 | RX 21 06 18 | 6      | 1/8"           | 12             | 5              | 22,5           | 42             | 13 |
| 020977 | RX 21 06 14 | 6      | 1/4"           | 12             | 6,5            | 24,5           | 42             | 16 |
| 020978 | RX 21 08 18 | 8      | 1/8"           | 14             | 5              | 22,5           | 43             | 13 |
| 020979 | RX 21 08 14 | 8      | 1/4"           | 14             | 6,5            | 24,5           | 43             | 16 |
| 020986 | RX 21 10 14 | 10     | 1/4"           | 16             | 6,5            | 25,5           | 50             | 16 |
| 020987 | RX 21 10 38 | 10     | 3/8"           | 16             | 7              | 27             | 50             | 21 |

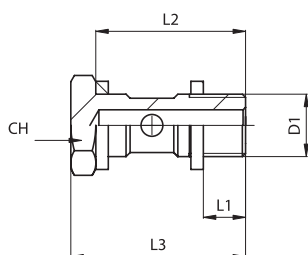


Equal tee

| Code   | Item        | Tube ø | D <sub>2</sub> | L <sub>1</sub> | L <sub>2</sub> |
|--------|-------------|--------|----------------|----------------|----------------|
| 020995 | RX 29 04 04 | 4      | 9              | 17             | 34             |
| 020996 | RX 29 06 06 | 6      | 12             | 20             | 40             |
| 020997 | RX 29 08 08 | 8      | 14             | 21             | 42             |
| 020998 | RX 29 10 10 | 10     | 16             | 25             | 50             |
| 020999 | RX 29 12 12 | 12     | 18             | 27             | 54             |

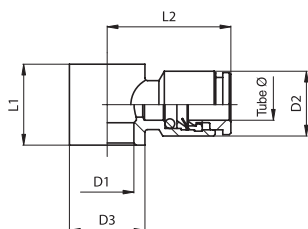
# Stainless Steel push-in fittings

## Series RX, in AISI 316 L



Single hollow bolt

| Code   | Item        | D <sub>1</sub> | L <sub>1</sub> | L <sub>2</sub> | L <sub>3</sub> | CH |
|--------|-------------|----------------|----------------|----------------|----------------|----|
| 020980 | RX 31 00 18 | 1/8"           | 5,5            | 23             | 27             | 14 |
| 020948 | RX 31 00 14 | 1/4"           | 6,5            | 26,5           | 31,5           | 17 |
| 020988 | RX 31 00 38 | 3/8"           | 7              | 30             | 36             | 21 |
| 020989 | RX 31 00 12 | 1/2"           | 8,5            | 35,5           | 41,5           | 26 |



Single banjo

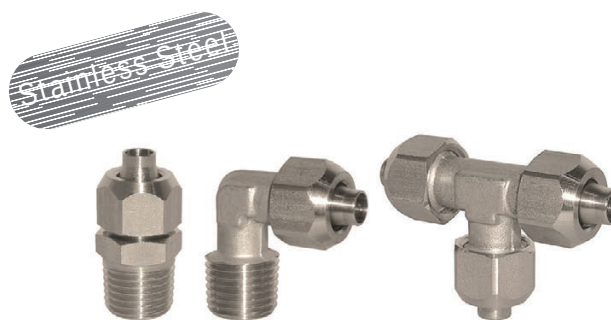
| Code   | Item        | Tube ø | D <sub>1</sub> | D <sub>2</sub> | D <sub>3</sub> | L <sub>1</sub> | L <sub>2</sub> |
|--------|-------------|--------|----------------|----------------|----------------|----------------|----------------|
| 020982 | RX 35 04 18 | 4      | 1/8"           | 9              | 14             | 15             | 19,5           |
| 020981 | RX 35 06 18 | 6      | 1/8"           | 12             | 14             | 15             | 22             |
| 020973 | RX 35 06 14 | 6      | 1/4"           | 12             | 18             | 17             | 23,5           |
| 020965 | RX 35 08 18 | 8      | 1/8"           | 14             | 14             | 15             | 22,5           |
| 020945 | RX 35 08 14 | 8      | 1/4"           | 14             | 18             | 17             | 24             |
| 020990 | RX 35 10 14 | 10     | 1/4"           | 14             | 18             | 17             | 27             |
| 020991 | RX 35 10 38 | 10     | 3/8"           | 16             | 22             | 20             | 29             |
| 020992 | RX 35 12 38 | 12     | 1/2"           | 16             | 22             | 20             | 31             |
| 020993 | RX 35 12 12 | 12     | 1/2"           | 19             | 26             | 24             | 33             |

# Stainless Steel rapid fittings

## Series CX, in AISI 316 L



| Version          | Type |
|------------------|------|
| BSPT stud        | CX11 |
| Union            | CX14 |
| BSPT elbow       | CX16 |
| Equal elbow      | CX18 |
| BSTP central tee | CX20 |
| BSTP lateral tee | CX21 |
| Equal tee        | CX19 |
| Nut              | CX27 |



Series of stainless steel rapid fittings in AISI 316L suitable for applications with very high temperatures and/or aggressive fluids not compatible with standard seals.

|                      |    |    |    |    |    |
|----------------------|----|----|----|----|----|
| External tube ø (mm) | 4  | 5  | 6  | 8  | 10 |
| Code                 | 04 | 05 | 06 | 08 | 10 |

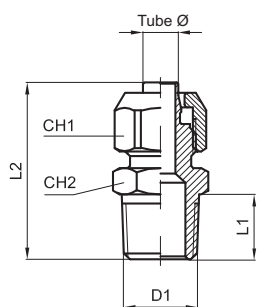
|         |      |      |      |
|---------|------|------|------|
| Threads | 1/8" | 1/4" | 3/8" |
| Code    | 18   | 14   | 38   |

\*How to order: CX110618

|      |             |                     |
|------|-------------|---------------------|
| CX11 | 06          | 18                  |
| Type | Code ø Tube | Tube or thread code |

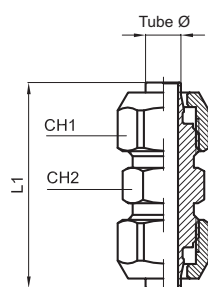
\* For standard items, codes and dimensions see tables from page 5.155.2

| Technical data    |                                                      |
|-------------------|------------------------------------------------------|
| Fluid             | All those compatible with stainless steel AISI 316 L |
| Pressuremax       | 25 bar                                               |
| Temperature range | -40 °C ÷ + 200°C                                     |
| Taper threads     | UNI - ISO 7 / 1 (BSPT)                               |
| Connection tubes  | Suggested PTFE                                       |
| Tube tollerances  | Up to 10 mm: ± 0,05 mm - ø 12 mm and 15 mm: ± 0,1 mm |
| Materials         | Body e Nut: Stainless Steel AISI 316 L               |



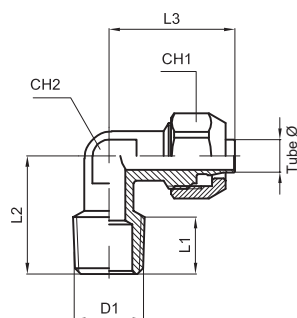
BSPT stud

| Code   | Item        | Tube ø | D1   | L1   | L2   | CH1 | CH2 | Weight (g) |
|--------|-------------|--------|------|------|------|-----|-----|------------|
| 021560 | CX 11 06 18 | 6-4    | 1/8" | 7,5  | 26   | 34  | 10  | 12         |
| 021561 | CX 11 06 14 | 6-4    | 1/4" | 11   | 29,5 | 12  | 14  | 18         |
| 021562 | CX 11 08 18 | 8-6    | 1/8" | 7,5  | 26,5 | 14  | 13  | 16,5       |
| 021563 | CX 11 08 14 | 8-6    | 1/4" | 11   | 30   | 14  | 14  | 20,5       |
| 021564 | CX 11 10 14 | 10-8   | 1/4" | 11   | 32,5 | 16  | 14  | 24         |
| 021565 | CX 11 10 38 | 10-8   | 3/8" | 11,5 | 33   | 16  | 17  | 30         |



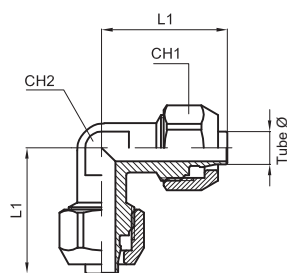
Union

| Code   | Item        | Tube ø | L1 | CH1 | CH2 | Weight (g) |
|--------|-------------|--------|----|-----|-----|------------|
| 021566 | CX 14 06 00 | 6-4    | 34 | 12  | 10  | 20         |
| 021567 | CX 14 08 00 | 8-6    | 35 | 14  | 12  | 26         |
| 021568 | CX 14 10 00 | 10-8   | 39 | 16  | 14  | 36         |



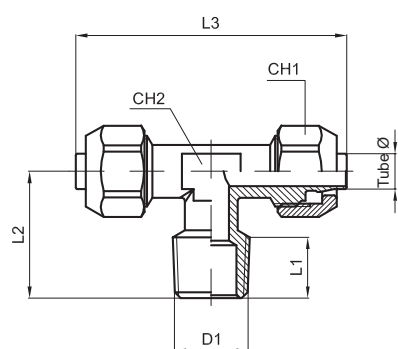
BSPT elbow

| Code   | Item        | Tube ø | D1   | L1  | L2   | L3   | CH1 | CH2 | Weight (g) |
|--------|-------------|--------|------|-----|------|------|-----|-----|------------|
| 021569 | CX 16 06 18 | 6-4    | 1/8" | 7,5 | 17   | 23   | 12  | 10  | 17         |
| 021570 | CX 16 06 14 | 6-4    | 1/4" | 11  | 21,5 | 23   | 12  | 10  | 20         |
| 021571 | CX 16 08 18 | 8-6    | 1/8" | 7,5 | 17   | 23   | 14  | 10  | 18         |
| 021572 | CX 16 08 14 | 8-6    | 1/4" | 11  | 21,5 | 23   | 14  | 10  | 21         |
| 021573 | CX 16 10 14 | 10-8   | 1/4" | 11  | 21,5 | 25,5 | 16  | 10  | 25         |



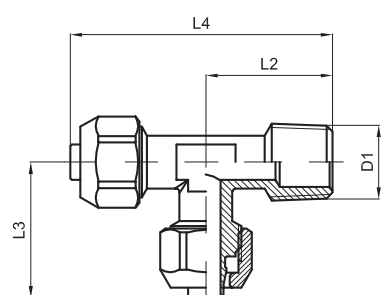
Equal elbow

| Code   | Item        | Tube ø | L1   | L1   | CH1 | CH2 | Weight (g) |
|--------|-------------|--------|------|------|-----|-----|------------|
| 021574 | CX 18 06 00 | 6-4    | 22,5 | 22,5 | 12  | 10  | 25         |
| 021575 | CX 18 08 00 | 8-6    | 23   | 23   | 14  | 10  | 27         |
| 021576 | CX 18 10 00 | 10-8   | 25,5 | 25,5 | 16  | 10  | 33         |



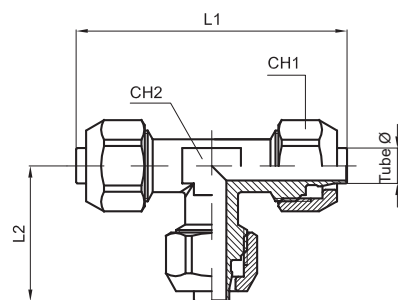
BSTP central tee

| Code   | Item        | Tube ø | D <sub>1</sub> | L <sub>1</sub> | L <sub>2</sub> | L <sub>3</sub> | CH <sub>1</sub> | CH <sub>2</sub> | Weight (g) |
|--------|-------------|--------|----------------|----------------|----------------|----------------|-----------------|-----------------|------------|
| 021577 | CX 20 06 18 | 6-4    | 1/8"           | 8              | 17             | 46             | 12              | 10              | 29         |
| 021578 | CX 20 06 14 | 6-4    | 1/4"           | 11             | 21,5           | 46             | 12              | 10              | 32         |
| 021579 | CX 20 08 18 | 8-6    | 1/8"           | 8              | 17             | 46             | 14              | 10              | 30         |
| 021580 | CX 20 08 14 | 8-6    | 1/4"           | 11             | 21,5           | 46             | 14              | 10              | 34         |
| 021581 | CX 20 10 14 | 10-8   | 1/4"           | 11             | 21,5           | 51             | 16              | 10              | 40         |



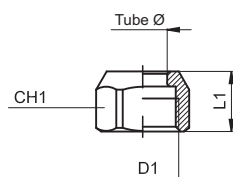
BSTP lateral tee

| Code   | Item        | Tube ø | D <sub>1</sub> | L <sub>1</sub> | L <sub>2</sub> | L <sub>3</sub> | L <sub>4</sub> | CH <sub>1</sub> | CH <sub>2</sub> | Weight (g) |
|--------|-------------|--------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|------------|
| 021582 | CX 21 06 18 | 6-4    | 1/8"           | 8              | 17             | 23             | 40             | 12              | 10              | 29         |
| 021583 | CX 21 06 14 | 6-4    | 1/4"           | 11             | 21,5           | 23             | 44,5           | 12              | 10              | 32         |
| 021584 | CX 21 08 18 | 8-6    | 1/8"           | 8              | 17             | 23             | 40             | 14              | 10              | 30         |
| 021585 | CX 21 08 14 | 8-6    | 1/4"           | 11             | 21,5           | 23             | 44,5           | 14              | 10              | 34         |
| 021586 | CX 21 10 14 | 10-8   | 1/4"           | 11             | 21,5           | 25,5           | 47             | 16              | 10              | 40         |



Equal tee

| Code   | Item        | Tube ø | L <sub>1</sub> | L <sub>1</sub> | CH <sub>1</sub> | CH <sub>2</sub> | Weight (g) |
|--------|-------------|--------|----------------|----------------|-----------------|-----------------|------------|
| 021587 | CX 19 06 00 | 6-4    | 45             | 22,5           | 12              | 10              | 36         |
| 021588 | CX 19 08 00 | 8-6    | 46             | 23             | 14              | 10              | 39         |
| 021589 | CX 19 10 00 | 10-8   | 51             | 25,5           | 16              | 10              | 49         |



Nut

| Code   | Item        | Tube ø | D <sub>1</sub> | L <sub>1</sub> | CH <sub>1</sub> | Weight (g) |
|--------|-------------|--------|----------------|----------------|-----------------|------------|
| 021590 | CX 27 06 10 | 6-4    | M10x1          | 10             | 12              | 4          |
| 021591 | CX 27 08 12 | 8-6    | M12x1          | 10             | 14              | 5          |
| 021592 | CX 27 10 14 | 10-8   | M14x1          | 11             | 16              | 7          |





# Stainless Steel compression fittings

## Series OX, in AISI 316



| Version                | Type |
|------------------------|------|
| BSPT stud              | OX11 |
| Female BSPT stud       | OX13 |
| Union                  | OX14 |
| Bulkhead               | OX15 |
| BSPT elbow             | OX16 |
| Equal elbow            | OX17 |
| BSPT - compression tee | OX19 |
| Equal tee              | OX18 |
| Equal +                | OX28 |
| Nut                    | OX21 |
| Ogive                  | OX22 |
| Tube insert            | OX23 |



Series of stainless steel AISI 316 TI compression fittings conforming to DIN 2353 standards for metal tubes.

The ogive crushing onto the tube, by screwing down the external nut, allows to get a safe connection and to work even at high pressures.

The ogive is single cone.

This series of fittings can also be used for connecting non-stiff tubes and this by applying a tube insert inside the tube.

Available with threads Gas taper (BSPT) and Gas parallel (BSP).

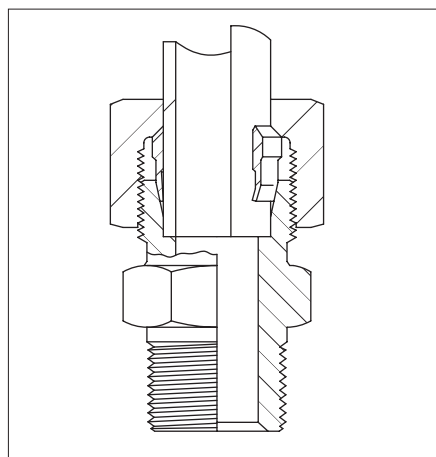
\* How to order: OX110814

|                      |    |    |    |    |    |    |    |    |
|----------------------|----|----|----|----|----|----|----|----|
| External tube ø (mm) | 6  | 8  | 10 | 12 | 14 | 15 | 16 | 18 |
| Code                 | 06 | 08 | 10 | 12 | 14 | 15 | 16 | 18 |

|         |      |      |      |      |
|---------|------|------|------|------|
| Threads | 1/8" | 1/4" | 3/8" | 1/2" |
| Code    | 18   | 14   | 38   | 12   |

| OX11 | 08          | 14                  |
|------|-------------|---------------------|
| Type | Code ø Tube | Tube or thread code |

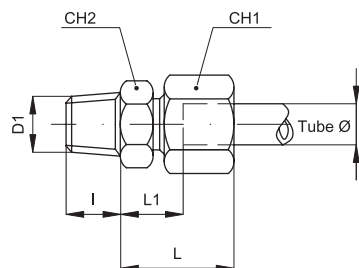
\* For standard items, codes and dimensions see tables from page 5.160.2



| Technical data    |                                                                       |
|-------------------|-----------------------------------------------------------------------|
| Fluid             | Compressed air, aggressive fluids, oil at low pressure                |
| Pressure range    | Tube from 6 mm to 15 mm: 250 bar - Tube 16 mm and 18 mm: 160 bar      |
| Temperature range | According to the tube used                                            |
| Taper threads     | UNI - ISO 7 / 1 (BSPT)                                                |
| Connection tubes  | Metal or rilsan, nylon, polyurethane, polyethylene (with insert tube) |
| Materials         | Completely in stainless steel AISI 316 TI                             |

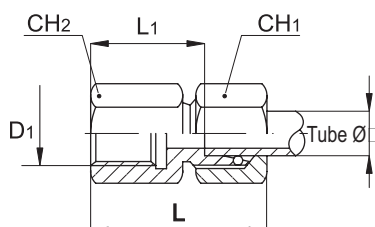
# Stainless Steel compression fittings

## Series OX, in AISI 316



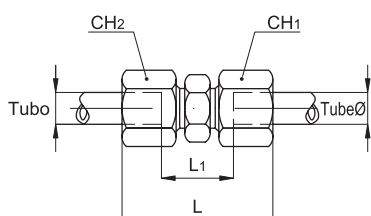
BSPT stud

| Code   | Item        | Tube ø | D1   | I  | L  | L1   | CH1 | CH2 |
|--------|-------------|--------|------|----|----|------|-----|-----|
| 027031 | OX 11 06 18 | 6      | 1/8" | 10 | 23 | 7    | 14  | 12  |
| 027053 | OX 11 08 18 | 8      | 1/8" | 10 | 23 | 8    | 17  | 14  |
| 027033 | OX 11 08 14 | 8      | 1/4" | 13 | 25 | 8    | 17  | 17  |
| 027034 | OX 11 08 38 | 8      | 3/8" | 13 | 23 | 9    | 17  | 19  |
| 027035 | OX 11 08 12 | 8      | 1/2" | 16 | 23 | 11   | 17  | 22  |
| 027036 | OX 11 10 14 | 10     | 1/4" | 13 | 26 | 9    | 19  | 17  |
| 027037 | OX 11 10 38 | 10     | 3/8" | 13 | 24 | 10   | 19  | 19  |
| 027038 | OX 11 10 12 | 10     | 1/2" | 16 | 24 | 11   | 19  | 22  |
| 027039 | OX 11 12 14 | 12     | 1/4" | 13 | 25 | 10   | 22  | 19  |
| 027040 | OX 11 12 38 | 12     | 3/8" | 13 | 27 | 10   | 22  | 19  |
| 027041 | OX 11 12 12 | 12     | 1/2" | 16 | 25 | 10   | 22  | 22  |
| 027042 | OX 11 14 12 | 14     | 1/2" | 16 | 29 | 11   | 27  | 24  |
| 027043 | OX 11 15 12 | 15     | 1/2" | 16 | 29 | 11   | 27  | 24  |
| 027044 | OX 11 16 12 | 16     | 1/2" | 16 | 31 | 11,5 | 32  | 27  |
| 027045 | OX 11 18 12 | 18     | 1/2" | 16 | 31 | 11,5 | 32  | 27  |



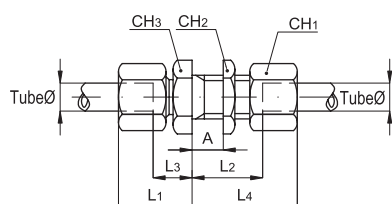
Female BSPT stud

| Code   | Item        | Tube ø | D1   | L  | L1   | CH1 | CH2 |
|--------|-------------|--------|------|----|------|-----|-----|
| 027081 | OX 13 06 18 | 6      | 1/8" | 34 | 19   | 14  | 14  |
| 027082 | OX 13 08 14 | 8      | 1/4" | 39 | 24   | 17  | 19  |
| 027083 | OX 13 10 14 | 10     | 1/4" | 40 | 25   | 19  | 19  |
| 027084 | OX 13 12 38 | 12     | 3/8" | 41 | 26   | 22  | 24  |
| 027085 | OX 13 14 12 | 14     | 1/2" | 46 | 31   | 27  | 27  |
| 027086 | OX 13 15 12 | 15     | 1/2" | 46 | 31   | 27  | 27  |
| 027087 | OX 13 16 12 | 16     | 1/2" | 47 | 30,5 | 32  | 27  |
| 027088 | OX 13 18 12 | 18     | 1/2" | 47 | 30,5 | 32  | 27  |



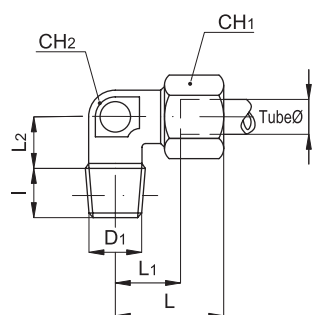
Union

| Code   | Item        | Tube ø | L  | L1 | CH1 | CH2 |
|--------|-------------|--------|----|----|-----|-----|
| 027001 | OX 14 06 06 | 6      | 39 | 10 | 14  | 12  |
| 027002 | OX 14 08 08 | 8      | 40 | 11 | 17  | 14  |
| 027003 | OX 14 10 10 | 10     | 42 | 13 | 19  | 17  |
| 027004 | OX 14 12 12 | 12     | 43 | 14 | 22  | 19  |
| 027005 | OX 14 14 14 | 14     | 46 | 16 | 27  | 24  |
| 027006 | OX 14 15 15 | 15     | 46 | 16 | 27  | 24  |
| 027007 | OX 14 16 16 | 16     | 48 | 16 | 32  | 27  |
| 027008 | OX 14 18 18 | 18     | 48 | 16 | 32  | 27  |



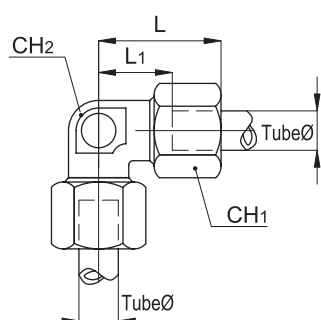
Bulkhead

| Code   | Item        | Tube ø | L1 | L2   | L3   | L4 | CH1 | CH2 | CH3 |
|--------|-------------|--------|----|------|------|----|-----|-----|-----|
| 027137 | OX 15 06 06 | 6      | 22 | 27   | 7    | 42 | 14  | 17  | 17  |
| 027138 | OX 15 08 08 | 8      | 23 | 27   | 8    | 42 | 17  | 19  | 19  |
| 027139 | OX 15 10 10 | 10     | 25 | 28   | 10,5 | 43 | 19  | 22  | 22  |
| 027140 | OX 15 12 12 | 12     | 25 | 29   | 10   | 44 | 22  | 24  | 24  |
| 027141 | OX 15 14 14 | 14     | 27 | 31   | 12   | 46 | 27  | 30  | 27  |
| 027142 | OX 15 15 15 | 15     | 27 | 31   | 12   | 46 | 27  | 30  | 27  |
| 027143 | OX 15 16 16 | 16     | 30 | 32,5 | 13,5 | 49 | 32  | 36  | 32  |
| 027144 | OX 15 18 18 | 18     | 30 | 32,5 | 13,5 | 49 | 32  | 36  | 32  |



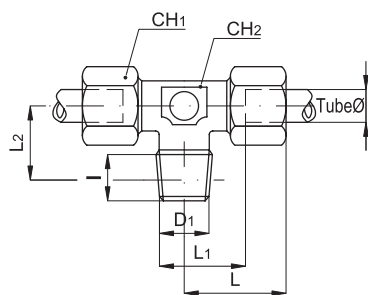
BSPT elbow

| Code   | Item        | Tube ø | D <sub>1</sub> | I  | L  | L <sub>1</sub> | L <sub>2</sub> | CH <sub>1</sub> | CH <sub>2</sub> |
|--------|-------------|--------|----------------|----|----|----------------|----------------|-----------------|-----------------|
| 027091 | OX 16 06 18 | 6      | 1/8"           | 8  | 27 | 12             | 15             | 14              | 12              |
| 027092 | OX 16 06 14 | 6      | 1/4"           | 12 | 27 | 15,5           | 15             | 14              | 12              |
| 027093 | OX 16 08 18 | 8      | 1/8"           | 12 | 29 | 15,5           | 18             | 17              | 12              |
| 027094 | OX 16 08 14 | 8      | 1/4"           | 12 | 29 | 14             | 18             | 17              | 12              |
| 027095 | OX 16 08 38 | 8      | 3/8"           | 12 | 29 | 17,5           | 18             | 17              | 17              |
| 027096 | OX 16 10 14 | 10     | 1/4"           | 12 | 30 | 15             | 19             | 19              | 14              |
| 027097 | OX 16 10 38 | 10     | 3/8"           | 12 | 30 | 17             | 19             | 19              | 17              |
| 027099 | OX 16 12 14 | 12     | 1/4"           | 12 | 32 | 17             | 20             | 22              | 17              |
| 027100 | OX 16 12 38 | 12     | 3/8"           | 12 | 32 | 17             | 20             | 22              | 17              |
| 027101 | OX 16 12 12 | 12     | 1/2"           | 14 | 32 | 20             | 20             | 22              | 19              |
| 027102 | OX 16 14 12 | 14     | 1/2"           | 14 | 36 | 21             | 24             | 27              | 19              |
| 027103 | OX 16 15 12 | 15     | 1/2"           | 14 | 36 | 21             | 24             | 27              | 19              |
| 027104 | OX 16 16 12 | 16     | 1/2"           | 14 | 40 | 23             | 26             | 32              | 24              |
| 027105 | OX 16 18 12 | 18     | 1/2"           | 14 | 40 | 23             | 26             | 32              | 24              |



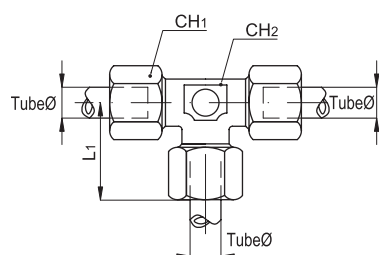
Equal elbow

| Code   | Item        | Tube ø | L  | L <sub>1</sub> | CH <sub>1</sub> | CH <sub>2</sub> |
|--------|-------------|--------|----|----------------|-----------------|-----------------|
| 027061 | OX 17 06 06 | 6      | 27 | 12             | 14              | 12              |
| 027062 | OX 17 08 08 | 8      | 29 | 14             | 17              | 12              |
| 027063 | OX 17 10 10 | 10     | 30 | 15             | 19              | 14              |
| 027064 | OX 17 12 12 | 12     | 32 | 17             | 22              | 17              |
| 027065 | OX 17 14 14 | 14     | 36 | 21             | 27              | 19              |
| 027066 | OX 17 15 15 | 15     | 36 | 21             | 27              | 19              |
| 027067 | OX 17 16 16 | 16     | 40 | 23,5           | 32              | 24              |
| 027068 | OX 17 18 18 | 18     | 40 | 23,5           | 32              | 24              |



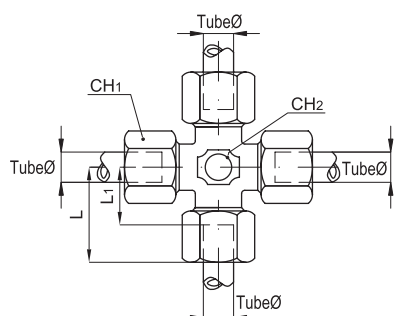
BSPT - compression tee

| Code   | Item        | Tube ø | D <sub>1</sub> | I  | L  | L <sub>1</sub> | L <sub>2</sub> | CH <sub>1</sub> | CH <sub>2</sub> |
|--------|-------------|--------|----------------|----|----|----------------|----------------|-----------------|-----------------|
| 027151 | OX 19 06 18 | 6      | 1/8"           | 8  | 27 | 12             | 15             | 14              | 12              |
| 027153 | OX 19 08 14 | 8      | 1/4"           | 12 | 29 | 14             | 18             | 17              | 12              |
| 027156 | OX 19 12 38 | 12     | 3/8"           | 12 | 32 | 17             | 20             | 22              | 17              |
| 027157 | OX 19 14 12 | 14     | 1/2"           | 14 | 36 | 21             | 24             | 27              | 19              |
| 027158 | OX 19 15 12 | 15     | 1/2"           | 14 | 36 | 21             | 24             | 27              | 19              |
| 027159 | OX 19 16 12 | 16     | 1/2"           | 14 | 40 | 23,5           | 26,5           | 32              | 24              |
| 027160 | OX 19 18 12 | 18     | 1/2"           | 14 | 40 | 23,5           | 26,5           | 32              | 24              |



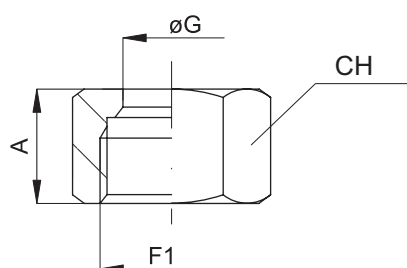
Equal tee

| Code   | Item        | Tube ø | L  | L <sub>1</sub> | CH <sub>1</sub> | CH <sub>2</sub> |
|--------|-------------|--------|----|----------------|-----------------|-----------------|
| 027121 | OX 18 06 06 | 6      | 27 | 12             | 14              | 12              |
| 027122 | OX 18 08 08 | 8      | 29 | 14             | 17              | 12              |
| 027123 | OX 18 10 10 | 10     | 30 | 15             | 19              | 14              |
| 027124 | OX 18 12 12 | 12     | 32 | 17             | 22              | 17              |
| 027125 | OX 18 14 14 | 14     | 36 | 21             | 27              | 19              |
| 027126 | OX 18 15 15 | 15     | 36 | 21             | 27              | 19              |
| 027127 | OX 18 16 16 | 16     | 40 | 23,5           | 32              | 24              |
| 027128 | OX 18 18 18 | 18     | 40 | 23,5           | 32              | 24              |



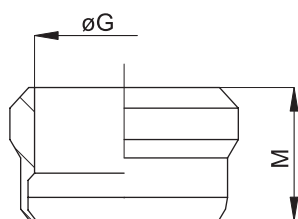
Equal +

| Code   | Item        | Tube ø | L  | L <sub>1</sub> | CH <sub>1</sub> | CH <sub>2</sub> |
|--------|-------------|--------|----|----------------|-----------------|-----------------|
| 027211 | OX 28 06 06 | 6      | 27 | 12             | 14              | 12              |
| 027212 | OX 28 08 08 | 8      | 29 | 14             | 17              | 12              |
| 027213 | OX 28 10 10 | 10     | 30 | 15             | 19              | 14              |
| 027214 | OX 28 12 12 | 12     | 32 | 17             | 22              | 17              |
| 027215 | OX 28 14 14 | 14     | 36 | 21             | 27              | 19              |
| 027216 | OX 28 15 15 | 15     | 36 | 21             | 27              | 19              |
| 027217 | OX 28 16 16 | 16     | 40 | 23,5           | 32              | 24              |
| 027218 | OX 28 18 18 | 18     | 40 | 23,5           | 32              | 24              |



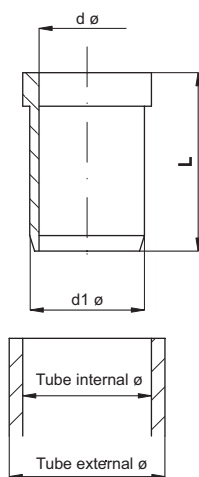
Nut

| Code   | Item        | Tube ø | F <sub>1</sub> | A    | CH | ø G |
|--------|-------------|--------|----------------|------|----|-----|
| 027241 | OX 21 06 06 | 6      | 12x1,5         | 14,5 | 14 | 6   |
| 027242 | OX 21 08 08 | 8      | 14x1,5         | 14,5 | 17 | 8   |
| 027243 | OX 21 10 10 | 10     | 16x1,5         | 15,5 | 19 | 10  |
| 027244 | OX 21 12 12 | 12     | 18x1,5         | 15,5 | 22 | 12  |
| 027245 | OX 21 14 14 | 14     | 22x1,5         | 17   | 27 | 15  |
| 027246 | OX 21 15 15 | 15     | 22x1,5         | 17   | 27 | 15  |
| 027247 | OX 21 16 16 | 16     | 26x1,5         | 18   | 32 | 18  |
| 027248 | OX 21 18 18 | 18     | 26x1,5         | 18   | 32 | 18  |



Ogive

| Code   | Item        | Tube ø | ø G | M   |
|--------|-------------|--------|-----|-----|
| 027271 | OX 22 06 06 | 6      | 6   | 9,5 |
| 027272 | OX 22 08 08 | 8      | 8   | 9,5 |
| 027273 | OX 22 10 10 | 10     | 10  | 10  |
| 027274 | OX 22 12 12 | 12     | 12  | 10  |
| 027275 | OX 22 14 14 | 14     | 14  | 10  |
| 027276 | OX 22 15 15 | 15     | 15  | 10  |
| 027277 | OX 22 16 16 | 16     | 16  | 9,5 |
| 027278 | OX 22 18 18 | 18     | 18  | 9,5 |



Tube insert

| Code   | Item        | Ext. tube ø x tickness | Int. tube ø | ø d  | ø d <sub>1</sub> | L    |
|--------|-------------|------------------------|-------------|------|------------------|------|
| 027293 | OX 23 06 06 | 6x1                    | 4           | 2,6  | 3,8              | 15,5 |
| 027290 | OX 23 08 08 | 8x1                    | 6           | 4,6  | 5,8              | 15,5 |
| 027291 | OX 23 10 10 | 10x1                   | 8           | 6,6  | 7,8              | 16,5 |
| 027292 | OX 23 12 12 | 12x1                   | 10          | 8,6  | 9,8              | 16,5 |
| 027294 | OX 23 14 14 | 14x1                   | 13          | 11,2 | 12,8             | 17   |
| 027295 | OX 23 15 15 | 15x1,5                 | 12          | 10,2 | 11,8             | 17   |
| 027296 | OX 23 16 16 | 16x1                   | 16          | 14,2 | 15,8             | 17,5 |
| 027297 | OX 23 18 18 | 18x1,5                 | 15          | 13,2 | 14,8             | 17,5 |

# Stainless Steel standard fittings

## Series AX, in AISI 316



| Version                 | Type  | Version              | Type  |
|-------------------------|-------|----------------------|-------|
| M-F BSPT reducer        | AX002 | Female plug          | AX010 |
| M-F BSPT stem increaser | AX004 | Nut                  | AX013 |
| BSPT nipple             | AX006 | BSPT - hose adapter  | AX015 |
| BSPT reducing nipple    | AX027 | BSP female union     | AX032 |
| Threaded nipple         | AX028 | M-F BSP union        | AX033 |
| Solder fittings         | AX029 | BSP 45° female elbow | AX034 |
| BSPT extended nipple    | AX030 | F - F elbow          | AX021 |
| Female socket           | AX007 | M - F elbow          | AX022 |
| Female reducing socket  | AX031 | F - F - F tee        | AX023 |
| Male BSPT plug          | AX016 | F - F - F - F +      | AX026 |



Series of standard fittings in stainless steel AISI 316 available in various configurations to adapt the connections of every installation according to one's requirements.

Available with Gas taper threads (BSPT) and fit for pneumatic, hydraulic (low pressure) and hydropneumatic installations, for alimentary, chemical, medical fields etc..

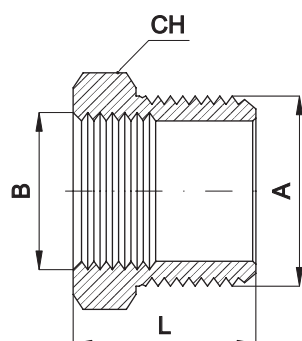
\* How to order: AX0061212

|       |         |         |
|-------|---------|---------|
| AX006 | 12      | 12      |
| Type  | Filetto | Filetto |

\* For standard items, codes and dimensions see tables from page 5.165.2

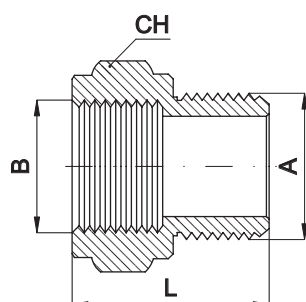
|         |      |      |      |      |      |    |        |        |    |        |    |    |
|---------|------|------|------|------|------|----|--------|--------|----|--------|----|----|
| Threads | 1/8" | 1/4" | 3/8" | 1/2" | 3/4" | 1" | 1 1/4" | 1 1/2" | 2" | 2 1/2" | 3" | 4" |
| Code    | 18   | 14   | 38   | 12   | 34   | 01 | 41     | 21     | 02 | 22     | 03 | 04 |

| Technical data |                                                         |
|----------------|---------------------------------------------------------|
| Fluid          | Compressed air, aggressive fluids, oil at low pressure. |
| Pressure range | 60 bar                                                  |
| Taper threads  | UNI - ISO 7 / 1 (BSPT)                                  |
| Materials      | Stainless steel AISI 316 TI                             |



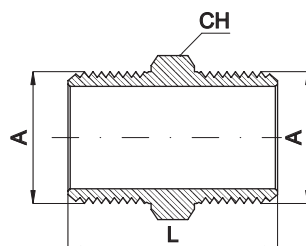
M-F BSPT reducer

| Code   | Item        | A      | B      | L  | CH |
|--------|-------------|--------|--------|----|----|
| 026161 | AX002 14 18 | 1/4"   | 1/8"   | 18 | 14 |
| 026163 | AX002 38 18 | 3/8"   | 1/8"   | 20 | 17 |
| 026162 | AX002 38 14 | 3/8"   | 1/4"   | 20 | 17 |
| 026165 | AX002 12 38 | 1/2"   | 3/8"   | 23 | 22 |
| 026164 | AX002 12 14 | 1/2"   | 1/4"   | 23 | 22 |
| 026166 | AX002 34 38 | 3/4"   | 3/8"   | 27 | 27 |
| 026167 | AX002 34 12 | 3/4"   | 1/2"   | 27 | 27 |
| 026168 | AX002 01 12 | 1"     | 1/2"   | 30 | 36 |
| 026169 | AX002 01 34 | 1"     | 3/4"   | 30 | 36 |
| 026170 | AX002 41 34 | 1 1/4" | 3/4"   | 31 | 42 |
| 026171 | AX002 41 01 | 1 1/4" | 1"     | 31 | 42 |
| 026172 | AX002 21 01 | 1 1/2" | 1"     | 33 | 50 |
| 026173 | AX002 21 41 | 1 1/2" | 1 1/4" | 33 | 50 |
| 026174 | AX002 02 41 | 2"     | 1 1/4" | 37 | 60 |
| 026175 | AX002 02 21 | 2"     | 1 1/2" | 37 | 60 |
| 026176 | AX002 22 21 | 2 1/2" | 1 1/2" | 43 | 77 |
| 026177 | AX002 22 02 | 2 1/2" | 2"     | 43 | 77 |
| 026178 | AX002 03 02 | 3"     | 2"     | 48 | 90 |
| 026179 | AX002 03 22 | 3"     | 2 1/2" | 48 | 90 |



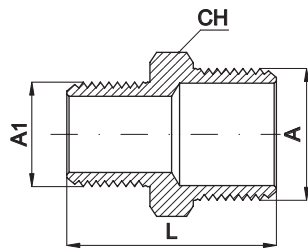
M - F BSPT stem increaser

| Code   | Item        | B      | A      | CH | L  |
|--------|-------------|--------|--------|----|----|
| 026251 | AX004 18 18 | 1/8"   | 1/8"   | 17 | 21 |
| 026252 | AX004 14 18 | 1/4"   | 1/8"   | 19 | 24 |
| 026253 | AX004 14 14 | 1/4"   | 1/4"   | 19 | 27 |
| 026254 | AX004 38 18 | 3/8"   | 1/8"   | 24 | 25 |
| 026255 | AX004 38 14 | 3/8"   | 1/4"   | 24 | 28 |
| 026256 | AX004 38 38 | 3/8"   | 3/8"   | 24 | 31 |
| 026257 | AX004 12 14 | 1/2"   | 1/4"   | 30 | 30 |
| 026258 | AX004 12 38 | 1/2"   | 3/8"   | 30 | 33 |
| 026259 | AX004 12 12 | 1/2"   | 1/2"   | 24 | 40 |
| 026260 | AX004 34 14 | 3/4"   | 1/4"   | 36 | 31 |
| 026261 | AX004 34 38 | 3/4"   | 3/8"   | 36 | 34 |
| 026262 | AX004 34 12 | 3/4"   | 1/2"   | 36 | 35 |
| 026263 | AX004 34 34 | 3/4"   | 3/4"   | 36 | 37 |
| 026264 | AX004 01 38 | 1"     | 3/8"   | 41 | 37 |
| 026265 | AX004 01 12 | 1"     | 1/2"   | 41 | 38 |
| 026266 | AX004 01 34 | 1"     | 3/4"   | 41 | 40 |
| 026267 | AX004 01 01 | 1"     | 1"     | 41 | 41 |
| 026268 | AX004 41 34 | 1 1/4" | 3/4"   | 50 | 40 |
| 026269 | AX004 41 01 | 1 1/4" | 1"     | 50 | 41 |
| 026270 | AX004 41 41 | 1 1/4" | 1 1/4" | 50 | 44 |
| 026271 | AX004 21 34 | 1 1/2" | 3/4"   | 55 | 43 |
| 026272 | AX004 21 01 | 1 1/2" | 1"     | 55 | 44 |
| 026273 | AX004 21 41 | 1 1/2" | 1 1/4" | 55 | 47 |
| 026274 | AX004 21 41 | 1 1/2" | 1 1/2" | 55 | 53 |



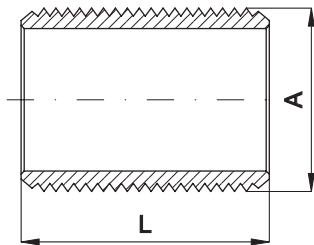
BSPT nipple

| Code   | Item        | A      | A      | L  | CH |
|--------|-------------|--------|--------|----|----|
| 026131 | AX006 18 18 | 1/8"   | 1/8"   | 24 | 12 |
| 026132 | AX006 14 14 | 1/4"   | 1/4"   | 29 | 14 |
| 026133 | AX006 38 38 | 3/8"   | 3/8"   | 32 | 17 |
| 026134 | AX006 12 12 | 1/2"   | 1/2"   | 38 | 22 |
| 026135 | AX006 34 34 | 3/4"   | 3/4"   | 45 | 27 |
| 026136 | AX006 01 01 | 1"     | 1"     | 47 | 36 |
| 026137 | AX006 41 41 | 1 1/4" | 1 1/4" | 52 | 42 |
| 026138 | AX006 21 21 | 1 1/2" | 1 1/2" | 55 | 50 |
| 026139 | AX006 02 02 | 2"     | 2"     | 62 | 60 |
| 026140 | AX006 22 22 | 2 1/2" | 2 1/2" | 71 | 77 |
| 026141 | AX006 03 03 | 3"     | 3"     | 82 | 90 |



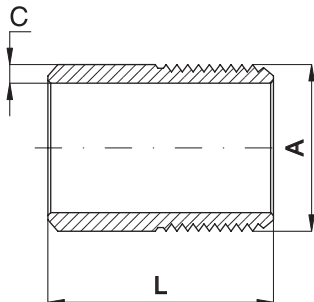
BSPT reducing nipple

| Code   | Item        | A      | A <sub>1</sub> | L  | CH |
|--------|-------------|--------|----------------|----|----|
| 026091 | AX027 14 18 | 1/4"   | 1/8"           | 27 | 14 |
| 026092 | AX027 38 14 | 3/8"   | 1/4"           | 31 | 17 |
| 026093 | AX027 12 14 | 1/2"   | 1/4"           | 34 | 22 |
| 026094 | AX027 12 38 | 1/2"   | 3/8"           | 35 | 22 |
| 026095 | AX027 34 38 | 3/4"   | 3/8"           | 38 | 27 |
| 026096 | AX027 34 12 | 3/4"   | 1/2"           | 42 | 27 |
| 026097 | AX027 01 12 | 1"     | 1/2"           | 45 | 36 |
| 026098 | AX027 01 34 | 1"     | 3/4"           | 48 | 36 |
| 026099 | AX027 41 34 | 1 1/4" | 3/4"           | 49 | 42 |
| 026100 | AX027 41 01 | 1 1/4" | 1"             | 51 | 42 |
| 026101 | AX027 21 01 | 1 1/2" | 1"             | 53 | 50 |
| 026102 | AX027 21 41 | 1 1/2" | 1 1/4"         | 54 | 50 |
| 026103 | AX027 02 41 | 2"     | 1 1/4"         | 58 | 60 |
| 026104 | AX027 02 21 | 2"     | 1 1/2"         | 59 | 60 |
| 026105 | AX027 22 21 | 2 1/2" | 1 1/2"         | 67 | 77 |
| 026106 | AX027 22 02 | 2 1/2" | 2"             | 70 | 77 |
| 026107 | AX027 03 22 | 3"     | 2 1/2"         | 78 | 90 |



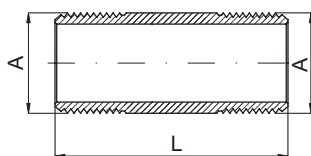
Threaded nipple

| Code   | Item        | A      | L  |
|--------|-------------|--------|----|
| 026001 | AX028 18 18 | 1/8"   | 16 |
| 026002 | AX028 14 14 | 1/4"   | 18 |
| 026003 | AX028 38 38 | 3/8"   | 22 |
| 026004 | AX028 12 12 | 1/2"   | 25 |
| 026005 | AX028 34 34 | 3/4"   | 30 |
| 026006 | AX028 01 01 | 1"     | 35 |
| 026007 | AX028 41 41 | 1 1/4" | 38 |
| 026008 | AX028 21 21 | 1 1/2" | 38 |
| 026009 | AX028 02 02 | 2"     | 45 |
| 026010 | AX028 22 22 | 2 1/2" | 55 |
| 026011 | AX028 03 03 | 3"     | 60 |



Solder fitting

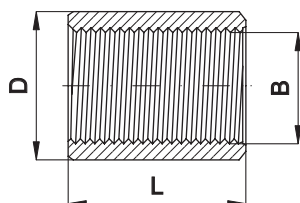
| Code   | Item        | A      | L  | C    |
|--------|-------------|--------|----|------|
| 026031 | AX029 18 18 | 1/8"   | 20 | 2,24 |
| 026032 | AX029 14 14 | 1/4"   | 22 | 2,24 |
| 026033 | AX029 38 38 | 3/8"   | 25 | 2,31 |
| 026034 | AX029 12 12 | 1/2"   | 28 | 2,90 |
| 026035 | AX029 34 34 | 3/4"   | 35 | 2,90 |
| 026036 | AX029 01 01 | 1"     | 35 | 3,38 |
| 026037 | AX029 41 41 | 1 1/4" | 45 | 3,56 |
| 026038 | AX029 21 21 | 1 1/2" | 45 | 3,68 |
| 026039 | AX029 02 02 | 2"     | 50 | 3,91 |
| 026040 | AX029 22 22 | 2 1/2" | 55 | 6,30 |
| 026041 | AX029 03 03 | 3"     | 65 | 4    |
| 026042 | AX029 04 04 | 4"     | 75 | 4,5  |



BSPT extended nipple

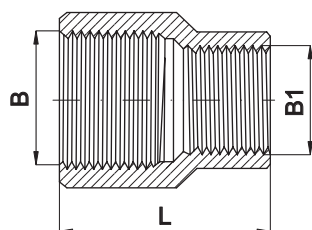
| Code   | Item        | A      | A      | L  |
|--------|-------------|--------|--------|----|
| 026061 | AX030 18 18 | 1/8"   | 1/8"   | 30 |
| 026062 | AX030 14 14 | 1/4"   | 1/4"   | 36 |
| 026063 | AX030 38 38 | 3/8"   | 3/8"   | 42 |
| 026064 | AX030 12 12 | 1/2"   | 1/2"   | 45 |
| 026065 | AX030 34 34 | 3/4"   | 3/4"   | 53 |
| 026066 | AX030 01 01 | 1"     | 1"     | 60 |
| 026067 | AX030 41 41 | 1 1/4" | 1 1/4" | 66 |
| 026068 | AX030 21 21 | 1 1/2" | 1 1/2" | 67 |
| 026069 | AX030 02 02 | 2"     | 2"     | 75 |
| 026070 | AX030 22 22 | 2 1/2" | 2 1/2" | 85 |
| 026071 | AX030 03 03 | 3"     | 3"     | 90 |





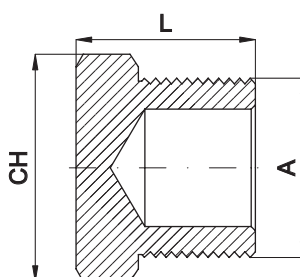
Female socket

| Code   | Item        | B      | L  | D    |
|--------|-------------|--------|----|------|
| 026511 | AX007 18 18 | 1/8"   | 20 | 14   |
| 026512 | AX007 14 14 | 1/4"   | 22 | 17,2 |
| 026513 | AX007 38 38 | 3/8"   | 25 | 21,3 |
| 026514 | AX007 12 12 | 1/2"   | 30 | 26,7 |
| 026515 | AX007 34 34 | 3/4"   | 35 | 33,4 |
| 026516 | AX007 01 01 | 1"     | 37 | 40   |
| 026517 | AX007 41 41 | 1 1/4" | 42 | 48,3 |
| 026518 | AX007 21 21 | 1 1/2" | 42 | 57   |
| 026519 | AX007 02 02 | 2"     | 46 | 71   |
| 026520 | AX007 22 22 | 2 1/2" | 65 | 90   |
| 026521 | AX007 03 03 | 3"     | 70 | 100  |
| 026522 | AX007 04 04 | 4"     | 70 | 120  |



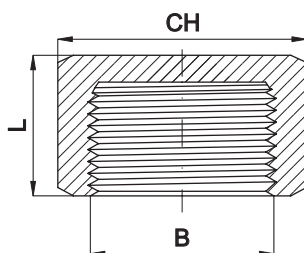
Female reducing socket

| Code   | Item        | B      | B <sub>1</sub> | L  |
|--------|-------------|--------|----------------|----|
| 026541 | AX031 14 18 | 1/4"   | 1/8"           | 27 |
| 026542 | AX031 38 14 | 3/8"   | 1/4"           | 30 |
| 026543 | AX031 12 14 | 1/2"   | 1/4"           | 36 |
| 026544 | AX031 12 38 | 1/2"   | 3/8"           | 36 |
| 026545 | AX031 34 38 | 3/4"   | 3/8"           | 39 |
| 026546 | AX031 34 12 | 3/4"   | 1/2"           | 39 |
| 026547 | AX031 01 12 | 1"     | 1/2"           | 45 |
| 026548 | AX031 01 34 | 1"     | 3/4"           | 45 |
| 026549 | AX031 41 34 | 1 1/4" | 3/4"           | 50 |
| 026550 | AX031 41 01 | 1 1/4" | 1"             | 50 |
| 026551 | AX031 21 01 | 1 1/2" | 1"             | 55 |
| 026552 | AX031 21 41 | 1 1/2" | 1 1/4"         | 55 |
| 026553 | AX031 02 41 | 2"     | 1 1/4"         | 65 |
| 026554 | AX031 02 21 | 2"     | 1 1/2"         | 65 |
| 026555 | AX031 22 21 | 2 1/2" | 1 1/2"         | 74 |
| 026556 | AX031 22 02 | 2 1/2" | 2"             | 74 |
| 026557 | AX031 03 02 | 3"     | 2"             | 80 |
| 026558 | AX031 03 22 | 3"     | 2 1/2"         | 80 |



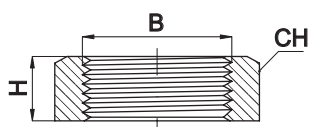
Male BSPT plug

| Code   | Item        | A      | L  | CH |
|--------|-------------|--------|----|----|
| 026191 | AX016 18 18 | 1/8"   | 15 | 12 |
| 026192 | AX016 14 14 | 1/4"   | 17 | 14 |
| 026193 | AX016 38 38 | 3/8"   | 18 | 17 |
| 026194 | AX016 12 12 | 1/2"   | 20 | 22 |
| 026195 | AX016 34 34 | 3/4"   | 25 | 27 |
| 026196 | AX016 01 01 | 1"     | 28 | 36 |
| 026197 | AX016 41 41 | 1 1/4" | 31 | 42 |
| 026198 | AX016 21 21 | 1 1/2" | 33 | 50 |
| 026199 | AX016 02 02 | 2"     | 38 | 60 |
| 026200 | AX016 22 22 | 2 1/2" | 43 | 77 |
| 026201 | AX016 03 03 | 3"     | 48 | 90 |



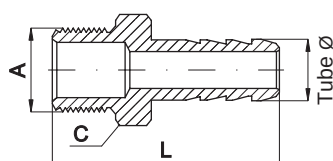
Female plug

| Code   | Item        | B      | L  | CH |
|--------|-------------|--------|----|----|
| 026671 | AX010 18 18 | 1/8"   | 13 | 17 |
| 026672 | AX010 14 14 | 1/4"   | 15 | 19 |
| 026673 | AX010 38 38 | 3/8"   | 16 | 24 |
| 026674 | AX010 12 12 | 1/2"   | 18 | 30 |
| 026675 | AX010 34 34 | 3/4"   | 21 | 36 |
| 026676 | AX010 01 01 | 1"     | 24 | 41 |
| 026677 | AX010 41 41 | 1 1/4" | 24 | 50 |
| 026678 | AX010 21 21 | 1 1/2" | 24 | 55 |
| 026679 | AX010 02 02 | 2"     | 26 | 68 |
| 026680 | AX010 22 22 | 2 1/2" | 30 | 84 |
| 026681 | AX010 03 03 | 3"     | 30 | 98 |



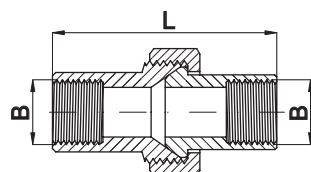
Nut

| Code   | Item        | B      | H  | CH  |
|--------|-------------|--------|----|-----|
| 026641 | AX013 18 18 | 1/8"   | 6  | 19  |
| 026642 | AX013 14 14 | 1/4"   | 6  | 22  |
| 026643 | AX013 38 38 | 3/8"   | 7  | 27  |
| 026644 | AX013 12 12 | 1/2"   | 8  | 32  |
| 026645 | AX013 34 34 | 3/4"   | 9  | 36  |
| 026646 | AX013 01 01 | 1"     | 10 | 46  |
| 026647 | AX013 41 41 | 1 1/4" | 11 | 55  |
| 026648 | AX013 21 21 | 1 1/2" | 12 | 60  |
| 026649 | AX013 02 02 | 2"     | 13 | 75  |
| 026650 | AX013 22 22 | 2 1/2" | 16 | 95  |
| 026651 | AX013 03 03 | 3"     | 19 | 105 |



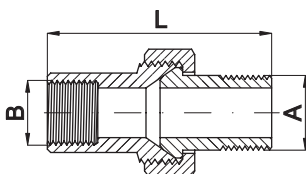
BSPT - hose adapter

| Code   | Item        | Tube Ø | A      | L  | CH |
|--------|-------------|--------|--------|----|----|
| 026711 | AX015 07 18 | 7      | 1/8"   | 30 | 13 |
| 026712 | AX015 09 14 | 8      | 1/4"   | 44 | 15 |
| 026713 | AX015 11 38 | 10     | 3/8"   | 50 | 19 |
| 026714 | AX015 15 12 | 14,5   | 1/2"   | 52 | 24 |
| 026715 | AX015 21 34 | 20     | 3/4"   | 60 | 28 |
| 026716 | AX015 27 01 | 25     | 1"     | 70 | 35 |
| 026717 | AX015 34 41 | 32     | 1 1/4" | 70 | 45 |
| 026718 | AX015 40 21 | 40     | 1 1/2" | 80 | 50 |
| 026719 | AX015 52 02 | 52     | 2"     | 88 | 62 |



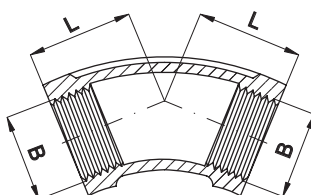
BSP female union

| Code   | Item        | B      | B      | L  |
|--------|-------------|--------|--------|----|
| 026741 | AX032 18 18 | 1/8"   | 1/8"   | 30 |
| 026742 | AX032 14 14 | 1/4"   | 1/4"   | 34 |
| 026743 | AX032 38 38 | 3/8"   | 3/8"   | 38 |
| 026744 | AX032 12 12 | 1/2"   | 1/2"   | 41 |
| 026745 | AX032 34 34 | 3/4"   | 3/4"   | 48 |
| 026746 | AX032 01 01 | 1"     | 1"     | 52 |
| 026747 | AX032 41 41 | 1 1/4" | 1 1/4" | 54 |
| 026748 | AX032 21 21 | 1 1/2" | 1 1/2" | 59 |
| 026749 | AX032 02 02 | 2"     | 2"     | 67 |
| 026750 | AX032 22 22 | 2 1/2" | 2 1/2" | 78 |
| 026751 | AX032 03 03 | 3"     | 3"     | 94 |



M-F BSP union

| Code   | Item        | A      | B      | L   |
|--------|-------------|--------|--------|-----|
| 026801 | AX033 18 18 | 1/8"   | 1/8"   | 42  |
| 026802 | AX033 14 14 | 1/4"   | 1/4"   | 42  |
| 026803 | AX033 38 38 | 3/8"   | 3/8"   | 49  |
| 026804 | AX033 12 12 | 1/2"   | 1/2"   | 56  |
| 026805 | AX033 34 34 | 3/4"   | 3/4"   | 63  |
| 026806 | AX033 01 01 | 1"     | 1"     | 69  |
| 026807 | AX033 41 41 | 1 1/4" | 1 1/4" | 74  |
| 026808 | AX033 21 21 | 1 1/2" | 1 1/2" | 84  |
| 026809 | AX033 02 02 | 2"     | 2"     | 102 |

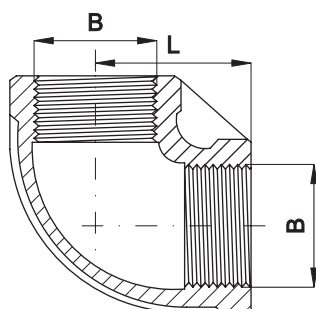


BSP 45°, female elbow

| Code   | Item        | B      | B      | L  |
|--------|-------------|--------|--------|----|
| 026311 | AX034 18 18 | 1/8"   | 1/8"   | 17 |
| 026312 | AX034 14 14 | 1/4"   | 1/4"   | 19 |
| 026313 | AX034 38 38 | 3/8"   | 3/8"   | 20 |
| 026314 | AX034 12 12 | 1/2"   | 1/2"   | 22 |
| 026315 | AX034 34 34 | 3/4"   | 3/4"   | 25 |
| 026316 | AX034 01 01 | 1"     | 1"     | 28 |
| 026317 | AX034 41 41 | 1 1/4" | 1 1/4" | 33 |
| 026318 | AX034 21 21 | 1 1/2" | 1 1/2" | 36 |
| 026319 | AX034 02 02 | 2"     | 2"     | 43 |
| 026320 | AX034 22 22 | 2 1/2" | 2 1/2" | 50 |
| 026321 | AX034 03 03 | 3"     | 3"     | 56 |

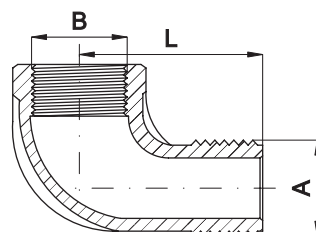
# Stainless Steel standard fittings

## Series AX, in AISI 316



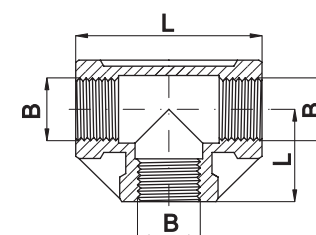
F - F elbow

| Code   | Item        | B      | B      | L  |
|--------|-------------|--------|--------|----|
| 026291 | AX021 18 18 | 1/8"   | 1/8"   | 19 |
| 026292 | AX021 14 14 | 1/4"   | 1/4"   | 21 |
| 026293 | AX021 38 38 | 3/8"   | 3/8"   | 25 |
| 026294 | AX021 12 12 | 1/2"   | 1/2"   | 28 |
| 026295 | AX021 34 34 | 3/4"   | 3/4"   | 33 |
| 026296 | AX021 01 01 | 1"     | 1"     | 38 |
| 026297 | AX021 41 41 | 1 1/4" | 1 1/4" | 45 |
| 026298 | AX021 21 21 | 1 1/2" | 1 1/2" | 50 |
| 026299 | AX021 02 02 | 2"     | 2"     | 58 |
| 026300 | AX021 22 22 | 2 1/2" | 2 1/2" | 75 |
| 026301 | AX021 03 03 | 3"     | 3"     | 85 |



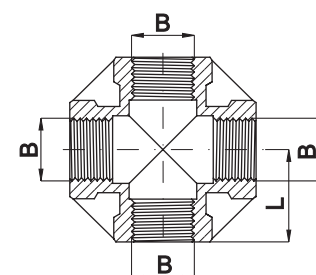
M - F elbow

| Code   | Item        | A      | B      | L  |
|--------|-------------|--------|--------|----|
| 026391 | AX022 18 18 | 1/8"   | 1/8"   | 20 |
| 026392 | AX022 14 14 | 1/4"   | 1/4"   | 20 |
| 026393 | AX022 38 38 | 3/8"   | 3/8"   | 24 |
| 026394 | AX022 12 12 | 1/2"   | 1/2"   | 28 |
| 026395 | AX022 34 34 | 3/4"   | 3/4"   | 33 |
| 026396 | AX022 01 01 | 1"     | 1"     | 38 |
| 026397 | AX022 41 41 | 1 1/4" | 1 1/4" | -  |
| 026398 | AX022 21 21 | 1 1/2" | 1 1/2" | -  |
| 026399 | AX022 02 02 | 2"     | 2"     | -  |
| 026400 | AX022 22 22 | 2 1/2" | 2 1/2" | -  |
| 026401 | AX022 03 03 | 3"     | 3"     | -  |



F - F - F tee

| Code   | Item        | B      | B      | B      | L  |
|--------|-------------|--------|--------|--------|----|
| 026421 | AX023 18 18 | 1/8"   | 1/8"   | 1/8"   | 19 |
| 026422 | AX023 14 14 | 1/4"   | 1/4"   | 1/4"   | 21 |
| 026423 | AX023 38 38 | 3/8"   | 3/8"   | 3/8"   | 25 |
| 026424 | AX023 12 12 | 1/2"   | 1/2"   | 1/2"   | 28 |
| 026425 | AX023 34 34 | 3/4"   | 3/4"   | 3/4"   | 33 |
| 026426 | AX023 01 01 | 1"     | 1"     | 1"     | 38 |
| 026427 | AX023 41 41 | 1 1/4" | 1 1/4" | 1 1/4" | 45 |
| 026428 | AX023 21 21 | 1 1/2" | 1 1/2" | 1 1/2" | 50 |
| 026429 | AX023 02 02 | 2"     | 2"     | 2"     | 58 |
| 026430 | AX023 22 22 | 2 1/2" | 2 1/2" | 2 1/2" | 75 |
| 026431 | AX023 03 03 | 3"     | 3"     | 3"     | 85 |



F - F - F - F +

| Code   | Item        | B      | B      | B      | B      | L  |
|--------|-------------|--------|--------|--------|--------|----|
| 026481 | AX026 18 18 | 1/8"   | 1/8"   | 1/8"   | 1/8"   | 20 |
| 026482 | AX026 14 14 | 1/4"   | 1/4"   | 1/4"   | 1/4"   | 24 |
| 026483 | AX026 38 38 | 3/8"   | 3/8"   | 3/8"   | 3/8"   | 24 |
| 026484 | AX026 12 12 | 1/2"   | 1/2"   | 1/2"   | 1/2"   | 28 |
| 026485 | AX026 34 34 | 3/4"   | 3/4"   | 3/4"   | 3/4"   | 33 |
| 026486 | AX026 01 01 | 1"     | 1"     | 1"     | 1"     | 38 |
| 026487 | AX026 41 41 | 1 1/4" | 1 1/4" | 1 1/4" | 1 1/4" | 45 |
| 026488 | AX026 21 21 | 1 1/2" | 1 1/2" | 1 1/2" | 1 1/2" | 49 |
| 026489 | AX026 02 02 | 2"     | 2"     | 2"     | 2"     | 57 |

# Stainless Steel quick-lock couplings

## Series GXA, from DN 6 to DN 25



| Version                | Code   | Item     |
|------------------------|--------|----------|
| Coupling 1/4" F, DN 6  | 570836 | GXA1014F |
| Plug 1/4" F, DN 6      | 570837 | GXA2014F |
| Coupling 3/8" F, DN 9  | 570838 | GXA1038F |
| Plug 3/8" F, DN 9      | 570839 | GXA2038F |
| Coupling 1/2" F, DN 13 | 570840 | GXA1012F |
| Plug 1/2" F, DN 13     | 570841 | GXA2012F |
| Coupling 3/4" F, DN 19 | 570842 | GXA1034F |
| Plug 3/4" F, DN 19     | 570843 | GXA2034F |
| Coupling 1" F, DN 25   | 570844 | GXA1100F |
| Plug 1" F, DN 25       | 570845 | GXA2100F |



Series of stainless steel AISI 316 quick-lock couplings, double shut off.

Conforming to ISO 7241-1 "A" suitable for use in aggressive environments like the chemical field and the food industry.

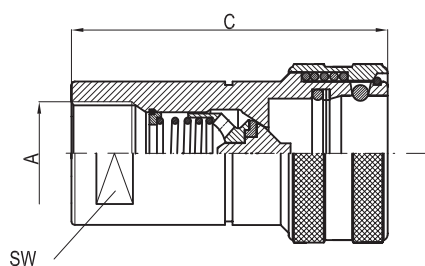
The connection tightness between the coupling and the plug is guaranteed by a series of spheres and this allows a longer life time even when the connections and the disconnections are frequent.

For standard items, codes and dimensions see tables from page 5.170.2.

| Technical data    |                                                                               |                          |              |
|-------------------|-------------------------------------------------------------------------------|--------------------------|--------------|
| Fluid             | Compressed air, gas, acids, fluids                                            |                          |              |
| Pressure          | 1/4" = 300 bar                                                                | 3/8"-1/2"-3/4" = 250 bar | 1" = 200 bar |
| Temperature range | -20 °C ÷ +150 °C                                                              |                          |              |
| Parallel threads  | UNI - ISO 228                                                                 |                          |              |
| Materials         | Coupler body and internal parts, all in stainless steel AISI 316<br>Seal: FKM |                          |              |

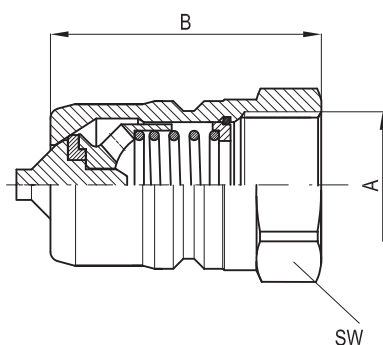
# Stainless Steel quick-lock couplings

## Series GXA, from DN 6 to DN 25



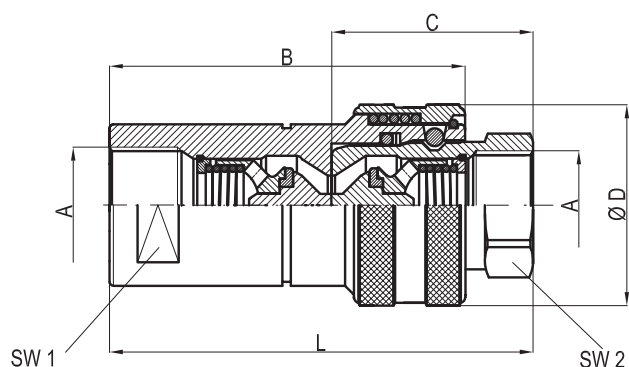
Coupling GXA1

| Code   | Item     | A    | C | SW |
|--------|----------|------|---|----|
| 570836 | GXA1014F | 1/4" | - | -  |
| 570838 | GXA1038F | 3/8" | - | -  |
| 570840 | GXA1012F | 1/2" | - | -  |
| 570842 | GXA1034F | 3/4" | - | -  |
| 570844 | GXA1100F | 1"   | - | -  |



Plug GXA2

| Code   | Item     | A    | B | SW |
|--------|----------|------|---|----|
| 570837 | GXA2014F | 1/4" | - | -  |
| 570839 | GXA2038F | 3/8" | - | -  |
| 570841 | GXA2012F | 1/2" | - | -  |
| 570843 | GXA2034F | 3/4" | - | -  |
| 570845 | GXA2100F | 1"   | - | -  |



Group coupling-plug

| A    | B  | C    | D  | L   | SW <sub>1</sub> | SW <sub>2</sub> |
|------|----|------|----|-----|-----------------|-----------------|
| 1/4" | 50 | 34   | 26 | 70  | 19              | 19              |
| 3/8" | 57 | 40   | 30 | 80  | 22              | 22              |
| 1/2" | 70 | 46   | 38 | 95  | 27              | 27              |
| 3/4" | 81 | 53,5 | 48 | 108 | 34              | 32              |
| 1"   | 96 | 63   | 54 | 126 | 38              | 41              |

# Stainless Steel quick-lock couplings

## Series GXF, from DN 6 to DN 30



| Version                  | Code   | Item     |
|--------------------------|--------|----------|
| Coupling 1/4" F, DN 6    | 570846 | GXF1014F |
| Plug 1/4" F, DN 6        | 570847 | GXF2014F |
| Coupling 3/8" F, DN 9    | 570848 | GXF1038F |
| Plug 3/8" F, DN 9        | 570849 | GXF2038F |
| Coupling 1/2" F, DN 13   | 570850 | GXF1012F |
| Plug 1/2" F, DN 13       | 570851 | GXF2012F |
| Coupling 3/4" F, DN 19   | 570852 | GXF1034F |
| Plug 3/4" F, DN 19       | 570853 | GXF2034F |
| Coupling 1" F, DN 25     | 570854 | GXF1100F |
| Plug 1" F, DN 25         | 570855 | GXF2100F |
| Coupling 1-1/4" F, DN 30 | 570856 | GXF1114F |
| Plug 1-1/4" F, DN 30     | 570857 | GXF2114F |



Series of stainless steel AISI 316 quick-lock couplings, "flat face" double shut off without exit of fluid at the moment of disconnection.

Conforming to ISO 16028 for use in aggressive environments like the chemical field and the food industry and on those use where it is important that there is not exit of fluid.

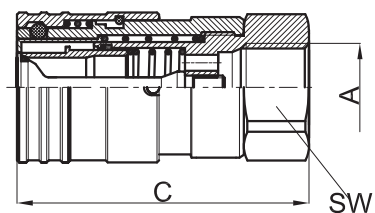
The connection tightness between the coupling and the plug is guaranteed by a series of spheres and this allows a longer life time even when the connections and the disconnections are frequent.

For standard items, codes and dimensions see tables from page 5.172.2.

| Technical data    |                                                                               |                     |                |              |                  |
|-------------------|-------------------------------------------------------------------------------|---------------------|----------------|--------------|------------------|
| Fluid             | Compressed air, gas, acids, fluids                                            |                     |                |              |                  |
| Pressure          | 1/4" = 300 bar                                                                | 3/8"-1/2" = 250 bar | 3/4" = 200 bar | 1" = 150 bar | 1 1/4" = 100 bar |
| Temperature range | -20 °C ÷ +150 °C                                                              |                     |                |              |                  |
| Parallel threads  | UNI - ISO 228                                                                 |                     |                |              |                  |
| Materials         | Coupler body and internal parts, all in stainless steel AISI 316<br>Seal: FKM |                     |                |              |                  |

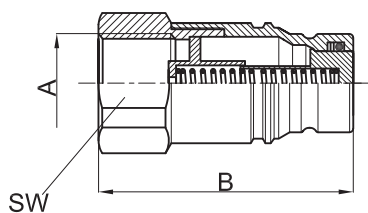
# Stainless Steel quick-lock couplings

## Series GXF, from DN 6 to DN 30



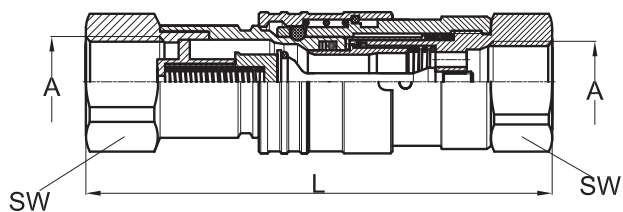
Coupling GXF1

| Code   | Item     | A      | C   | SW |
|--------|----------|--------|-----|----|
| 570846 | GXF1014F | 1/4"   | 48  | 22 |
| 570848 | GXF1038F | 3/8"   | 68  | 27 |
| 570850 | GXF1012F | 1/2"   | 74  | 32 |
| 570852 | GXF1034F | 3/4"   | 79  | 36 |
| 570854 | GXF1100F | 1"     | 93  | 45 |
| 570856 | GXF1114F | 1 1/4" | 106 | 55 |



Plug GXF2

| Code   | Item     | A      | B  | SW |
|--------|----------|--------|----|----|
| 570847 | GXF2014F | 1/4"   | 48 | 22 |
| 570849 | GXF2038F | 3/8"   | 67 | 27 |
| 570851 | GXF2012F | 1/2"   | 68 | 32 |
| 570853 | GXF2034F | 3/4"   | 70 | 36 |
| 570855 | GXF2100F | 1"     | 82 | 45 |
| 570857 | GXF2114F | 1 1/4" | 90 | 55 |



Group coupling-plug

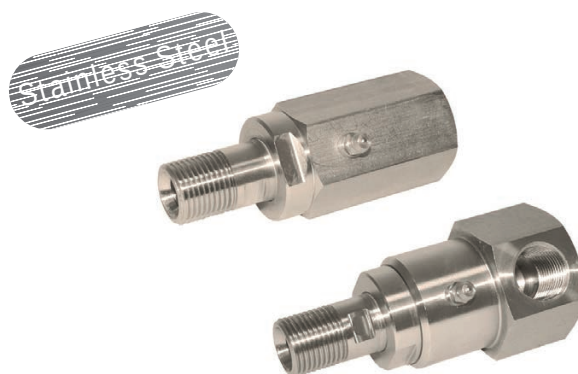
| A      | L     | SW |
|--------|-------|----|
| 1/4"   | 86    | 22 |
| 3/8"   | 118   | 27 |
| 1/2"   | 125   | 32 |
| 3/4"   | 130   | 36 |
| 1"     | 153   | 45 |
| 1 1/4" | 172,5 | 55 |

# Stainless Steel swivel joints, in line and 90°

## Series GGLX - GGAX, from DN 6 to DN 50



| Version                  | Code   | Item    |
|--------------------------|--------|---------|
| In-line 1/4" MF, DN 6    | 570858 | GGLX014 |
| In-line 3/8" MF, DN 9    | 570859 | GGLX038 |
| In-line 1/2" MF, DN 13   | 570860 | GGLX012 |
| In-line 3/4" MF, DN 19   | 570861 | GGLX034 |
| In-line 1" MF, DN 25     | 570862 | GGLX100 |
| In-line 1 1/4" MF, DN 30 | 570863 | GGLX114 |
| In-line 1 1/2" MF, DN 40 | 570864 | GGLX112 |
| In-line 2" MF, DN 50     | 570865 | GGLX200 |
| 90° 1/4" MF, DN 6        | 570866 | GGAX014 |
| 90° 3/8" MF, DN 9        | 570867 | GGAX038 |
| 90° 1/2" MF, DN 13       | 570868 | GGAX012 |
| 90° 3/4" MF, DN 19       | 570869 | GGAX034 |
| 90° 1" MF, DN 25         | 570870 | GGAX100 |
| 90° 1 1/4" MF, DN 30     | 570871 | GGAX114 |
| 90° 1 1/2" MF, DN 40     | 570872 | GGAX112 |
| 90° 2" MF, DN 50         | 570873 | GGAX200 |



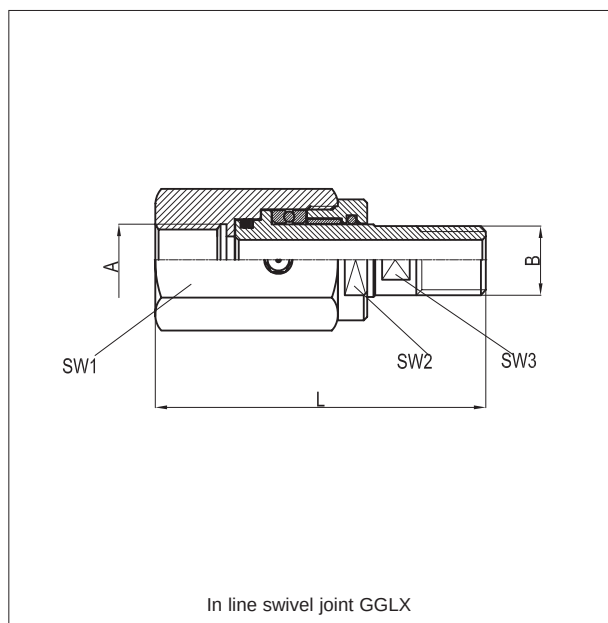
Series of stainless steel swivel joints in line and 90°. They are used to connect two rotating elements, avoiding twists. For standard items, codes and dimensions see tables from page 5.175.2.

| Technical data        |                                                                               |                    |                   |                  |                     |
|-----------------------|-------------------------------------------------------------------------------|--------------------|-------------------|------------------|---------------------|
| Fluid                 | Compressed air, gas, acids, fluids                                            |                    |                   |                  |                     |
| Pressure              | GGLX: 1/4"- 3/8" = 300 bar                                                    | 1/2" = 300 bar     | 3/4"-1" = 250 bar | 1 1/4" = 180 bar | 1 1/2"-2" = 150 bar |
|                       | GGAX: 1/4" = 350 bar                                                          | 3/8-1/2" = 300 bar | 3/4"-1" = 250 bar | 1 1/4" = 180 bar | 1 1/2"-2" = 150 bar |
| Temperature range     | -20 °C ÷ +150 °C                                                              |                    |                   |                  |                     |
| Parallel threads      | UNI - ISO 228                                                                 |                    |                   |                  |                     |
| Max speed of rotation | 10 turns / minute                                                             |                    |                   |                  |                     |
| Materials             | Coupler body and internal parts, all in stainless steel AISI 316<br>Seal: FKM |                    |                   |                  |                     |

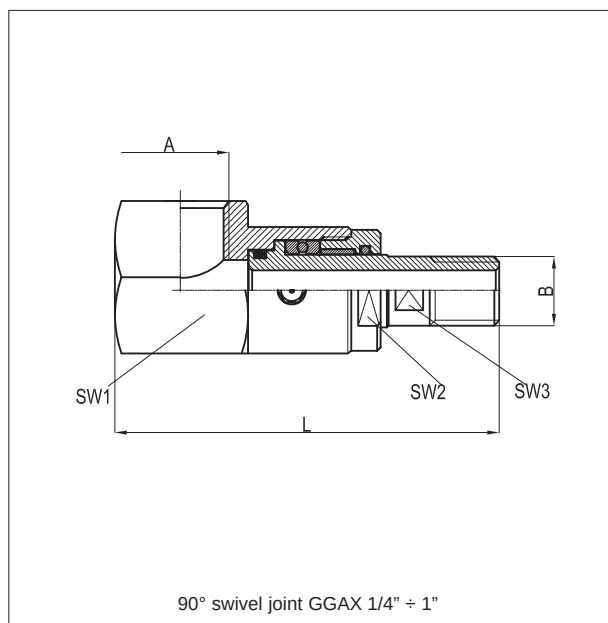


# Stainless Steel swivel joints, in line and 90°

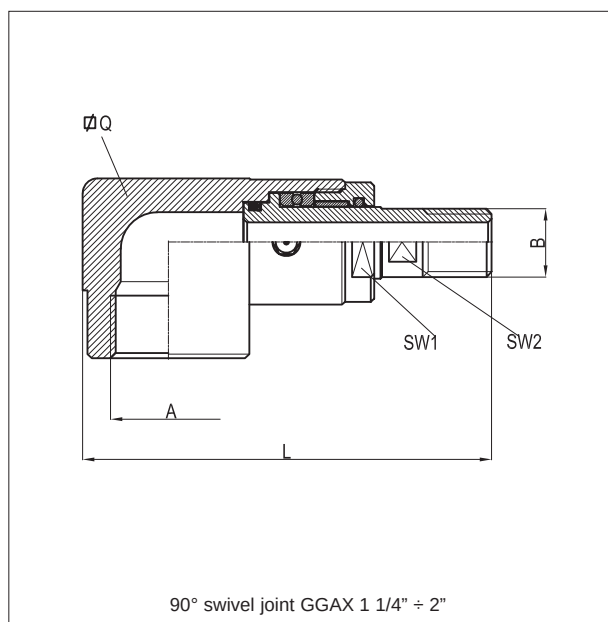
## Series GGLX - GGAX, from DN 6 to DN 50



| Code   | Item    | A      | B      | L   | SW <sub>1</sub> | SW <sub>2</sub> | SW <sub>3</sub> |
|--------|---------|--------|--------|-----|-----------------|-----------------|-----------------|
| 570858 | GGLX014 | 1/4"   | 1/4"   | 75  | 27              | 24              | 11              |
| 570859 | GGLX038 | 3/8"   | 3/8"   | 88  | 34              | 30              | 14              |
| 570860 | GGLX012 | 1/2"   | 1/2"   | 101 | 36              | 32              | 18              |
| 570861 | GGLX034 | 3/4"   | 3/4"   | 110 | 46              | 40              | 24              |
| 570862 | GGLX100 | 1"     | 1"     | 124 | 55              | 50              | 30              |
| 570863 | GGLX114 | 1 1/4" | 1 1/4" | 129 | 60              | 55              | 38              |
| 570864 | GGLX112 | 1 1/2" | 1 1/2" | 138 | 75              | 69              | 41              |
| 570865 | GGLX200 | 2"     | 2"     | 149 | 85              | 80              | 55              |



| Code   | Item    | A    | B    | L   | SW <sub>1</sub> | SW <sub>2</sub> | SW <sub>3</sub> |
|--------|---------|------|------|-----|-----------------|-----------------|-----------------|
| 570866 | GGAX014 | 1/4" | 1/4" | 78  | 32              | 21              | 11              |
| 570867 | GGAX038 | 3/8" | 3/8" | 98  | 36              | 27              | 14              |
| 570868 | GGAX012 | 1/2" | 1/2" | 106 | 46              | 32              | 18              |
| 570869 | GGAX034 | 3/4" | 3/4" | 118 | 50              | 37              | 24              |
| 570870 | GGAX100 | 1"   | 1"   | 142 | 60              | 46              | 30              |



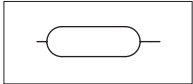
| Code   | Item    | A      | B      | L   | Q  | SW <sub>1</sub> | SW <sub>2</sub> |
|--------|---------|--------|--------|-----|----|-----------------|-----------------|
| 570871 | GGAX114 | 1 1/4" | 1 1/4" | 155 | 60 | 55              | 38              |
| 570872 | GGAX112 | 1 1/2" | 1 1/2" | 170 | 75 | 70              | 41              |
| 570873 | GGAX200 | 2"     | 2"     | 190 | 85 | 80              | 55              |

# Air-reservoirs

According to Directive 2014/68/EU



| Version             | Code   | Item    |
|---------------------|--------|---------|
| 5 lt 4 connections  | 050612 | 5SBCX4  |
| 12 lt 4 connections | 050613 | 12SBCX4 |
| 24 lt 4 connections | 050614 | 24SBCX4 |



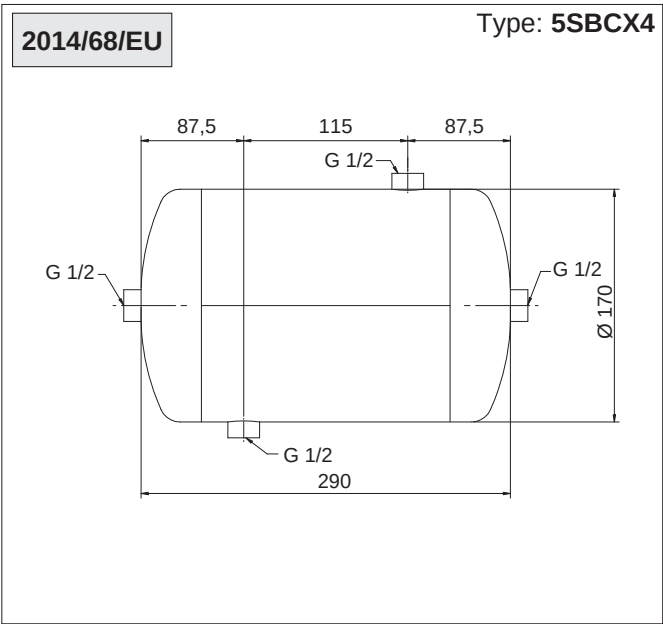
Keep to the use and maintenance manual supplied together with each reservoir.

II 2GDc IIC TX

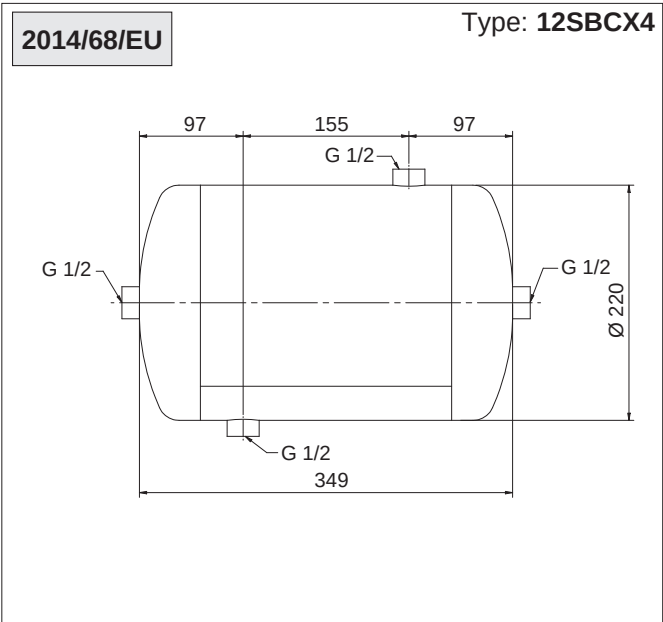
On request, they can be supplied according to 2014/34/EU - **ATEX**

Series of stainless steel air-reservoirs for compressed air built according to directive 2014/68/EU about equipment under pressure.  
 Every air-reservoir is supplied with Certificate of Conformity and manual instructions.  
 For standard items, codes and dimensions see tables from page 5.180.2.  
 On request, safety valves in stainless steel can be supplied.

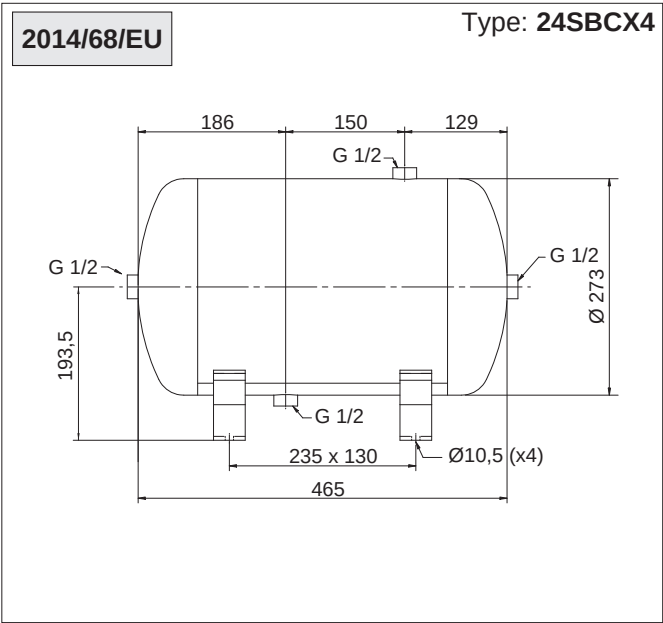
| Technical data            |                                   |
|---------------------------|-----------------------------------|
| Fluid                     | Compressed air                    |
| Pressure                  | 11 bar max                        |
| Hydrostatic test pressure | 16,5 bar                          |
| Temperature range         | -40 °C ÷ +50 °C                   |
| Threads                   | Parallel UNI - ISO 228/1          |
| Materials                 | Stainless Steel AISI 304 polished |



| Code   | Item   | N° connections |
|--------|--------|----------------|
| 050612 | 5SBCX4 | 4              |

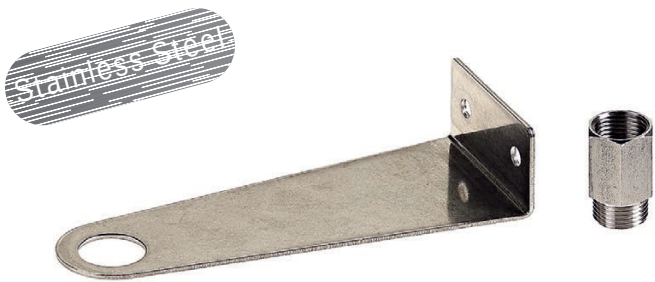


| Code   | Item    | N° connections |
|--------|---------|----------------|
| 050613 | 12SBCX4 | 4              |

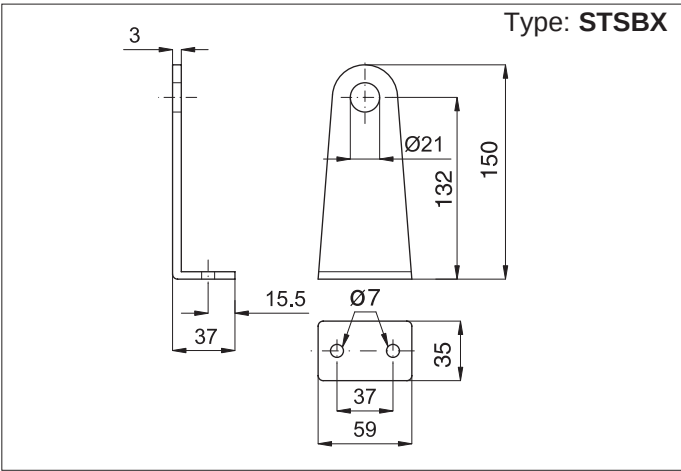


| Code   | Item    | N° connections |
|--------|---------|----------------|
| 050614 | 24SBCX4 | 4              |

| Version                         | Code | Item      |
|---------------------------------|------|-----------|
| Mounting bracket                |      | STSBX     |
| Bracket/tank connection fitting |      | AX0041212 |

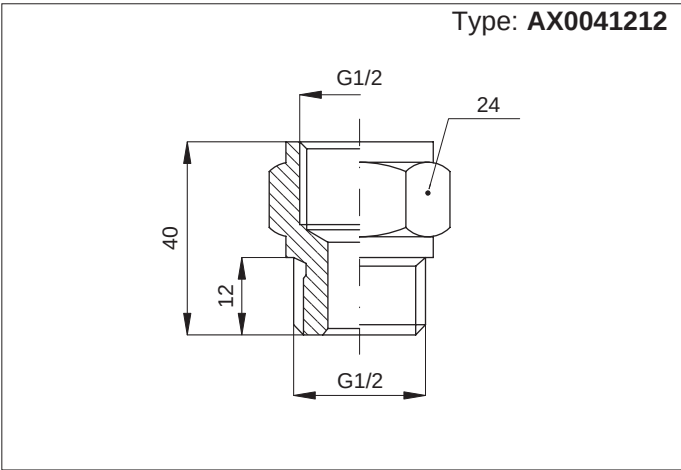


Series of accessories for the mounting (bracket and fitting) of the reservoirs.



| Code   | Item  |
|--------|-------|
| 050628 | STSBX |

Materials: Stainless Steel AISI 304



| Code   | Item      |
|--------|-----------|
| 026259 | AX0041212 |

Materials: Stainless steel AISI 316



| Version                                                              | Type |
|----------------------------------------------------------------------|------|
| Unidirectional in line with female-female thread                     | VX52 |
| Bi-directional in line with female-female thread                     | VX53 |
| Hexagonal screw adjustment                                           | VX15 |
| For cylinder, swivel with screwdriver adjustment and push-in fitting | VX18 |



Series of stainless steel flow controls available either for in line applications and for direct connection to cylinders to control the translation velocity.

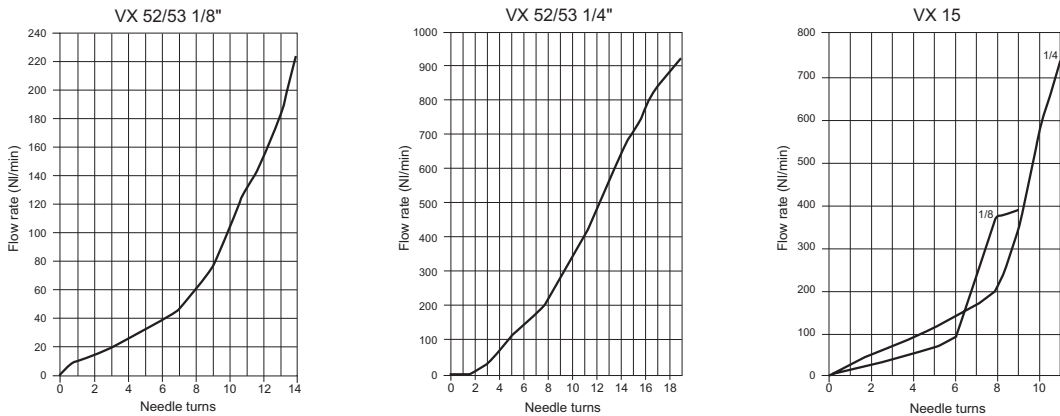
The in line regulators are available for control in one way (unidirectional) or in both ways (bi-directional).

The regulators for cylinders can be unidirectional with outlet adjustment from the cylinder ( C ) or with inlet adjustment to the cylinder ( V ), and in both sides ( B ).

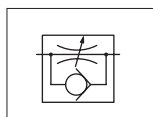
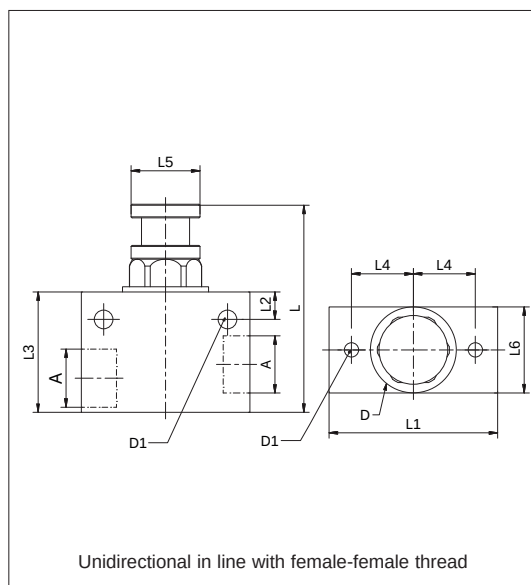
For standard items, codes and dimensions see tables at page 5.185.2.

For the coupling of the screw adjustment type VX15 with stainless steel single banjo, see banjo type RX35 at page 5.150.5

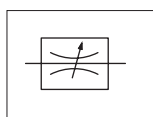
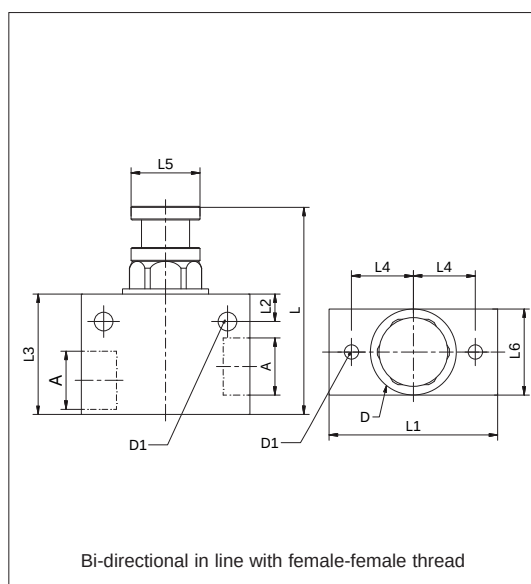
Flow diagrams



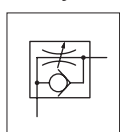
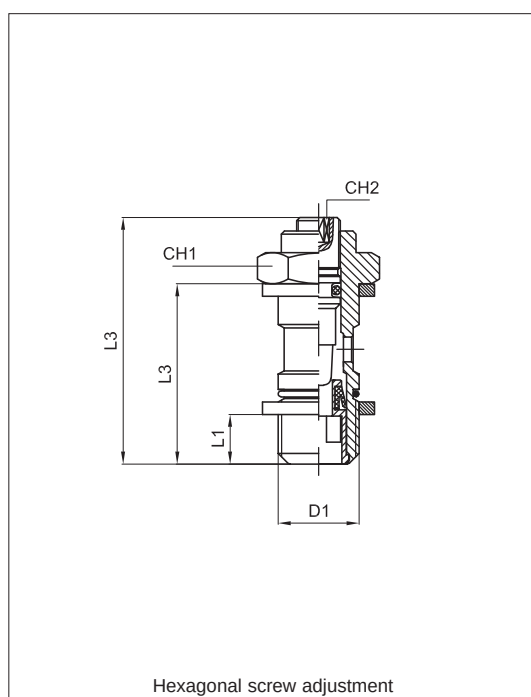
| Technical data    |                                                                                                                                                                            |                                                                                                                                               |                                                                                                                                                                         |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type              | VX52 - VX53                                                                                                                                                                | VX15                                                                                                                                          | VX18                                                                                                                                                                    |
| Fluid             | Compressed filtered air with or without lubrication                                                                                                                        |                                                                                                                                               |                                                                                                                                                                         |
| Pressure range    | 0,5 ÷ 10 bar                                                                                                                                                               | 0 ÷ 10 bar                                                                                                                                    |                                                                                                                                                                         |
| Temperature range | -20 °C ÷ 150 °C                                                                                                                                                            | 0 °C ÷ 150 °C                                                                                                                                 |                                                                                                                                                                         |
| Threads           | UNI - ISO 228                                                                                                                                                              |                                                                                                                                               |                                                                                                                                                                         |
| Materials         | Body: Stainless Steel AISI 316 L<br>Needle & needle valve: Stainless steel AISI 316 L<br>Knob: Stainless steel AISI 316 L<br>Nut: Stainless steel AISI 316 L<br>Seals: FPM | Body: Stainless Steel AISI 316 L<br>Needle: Stainless steel AISI 316 L<br>Cartridge: Stainless steel AISI 316 L<br>Seals: FPM<br>Gasket: PTFE | Body: Stainless Steel AISI 316 L<br>Needle: Stainless steel AISI 316 L<br>Cartridge: Stainless steel AISI 316 L<br>Seals: FPM<br>Banjo ring: Stainless steel AISI 316 L |



| Code   | Item       | A    | L   |     | L <sub>1</sub> | L <sub>2</sub> | L <sub>3</sub> | L <sub>4</sub> | L <sub>5</sub> | L <sub>5</sub> | D<br>Ø | D <sub>1</sub><br>Ø | Weight<br>gr |
|--------|------------|------|-----|-----|----------------|----------------|----------------|----------------|----------------|----------------|--------|---------------------|--------------|
|        |            |      | min | max |                |                |                |                |                |                |        |                     |              |
| 030155 | VX52 18 18 | 1/8" | 49  | 54  | 40             | 8              | 30             | 15             | 20             | 20             | 5,4    | M5                  | 168          |
| 030156 | VX52 14 14 | 1/4" | 49  | 54  | 40             | 8              | 30             | 15             | 20             | 20             | 5,4    | M5                  | 178          |
| 030146 | VX52 38 38 | 3/8" | 57  | 66  | 49             | 8              | 35             | 18             | 20             | 25             | 5,4    | M5                  | 305          |
| 030147 | VX52 12 12 | 1/2" | 57  | 66  | 49             | 8              | 35             | 18             | 20             | 25             | 5,4    | M5                  | 310          |



| Code   | Item       | A    | L   |     | L <sub>1</sub> | L <sub>2</sub> | L <sub>3</sub> | L <sub>4</sub> | L <sub>5</sub> | L <sub>5</sub> | D<br>Ø | D <sub>1</sub><br>Ø | Weight<br>gr |
|--------|------------|------|-----|-----|----------------|----------------|----------------|----------------|----------------|----------------|--------|---------------------|--------------|
|        |            |      | min | max |                |                |                |                |                |                |        |                     |              |
| 030157 | VX53 18 18 | 1/8" | 49  | 54  | 40             | 8              | 30             | 15             | 20             | 20             | 5,4    | M5                  | 168          |
| 030158 | VX53 14 14 | 1/4" | 49  | 54  | 40             | 8              | 30             | 15             | 20             | 20             | 5,4    | M5                  | 178          |
| 030144 | VX53 38 38 | 3/8" | 57  | 66  | 49             | 8              | 35             | 18             | 20             | 25             | 5,4    | M5                  | 305          |
| 030148 | VX53 12 12 | 1/2" | 57  | 66  | 49             | 8              | 35             | 18             | 20             | 25             | 5,4    | M5                  | 310          |

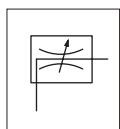


| Code   | Item        | D <sub>1</sub> | L <sub>1</sub> | L <sub>2</sub> | L <sub>3</sub><br>max | CH <sub>1</sub> | CH <sub>2</sub> | Weight<br>gr |
|--------|-------------|----------------|----------------|----------------|-----------------------|-----------------|-----------------|--------------|
|        |             |                |                |                |                       |                 |                 |              |
| 024035 | VX15 00 18C | 1/8"           | 5,5            | 25             | 36                    | 14              | 2,5             | 16           |
| 024036 | VX15 00 14C | 1/4"           | 6,5            | 27,5           | 42                    | 17              | 3               | 30           |

For banjo push-in fittings series RX

see page 5.150.5.

Bi directional

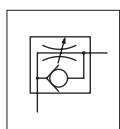


| Code   | Item        | D <sub>1</sub> | L <sub>1</sub> | L <sub>2</sub> | L <sub>3</sub><br>max | CH <sub>1</sub> | CH <sub>2</sub> | Weight<br>gr |
|--------|-------------|----------------|----------------|----------------|-----------------------|-----------------|-----------------|--------------|
|        |             |                |                |                |                       |                 |                 |              |
| 024037 | VX15 00 18B | 1/8"           | 5,5            | 25             | 36                    | 14              | 2,5             | 16           |
| 024038 | VX15 00 14B | 1/4"           | 6,5            | 27,5           | 42                    | 17              | 3               | 30           |

For banjo push-in fittings series RX

see page 5.150.5.

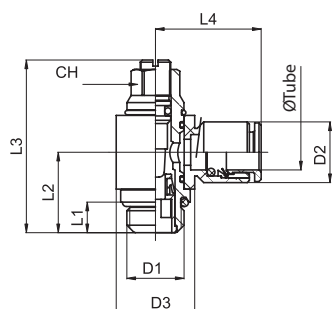
For valve



| Code   | Item        | D <sub>1</sub> | L <sub>1</sub> | L <sub>2</sub> | L <sub>3</sub><br>max | CH <sub>1</sub> | CH <sub>2</sub> | Weight<br>gr |
|--------|-------------|----------------|----------------|----------------|-----------------------|-----------------|-----------------|--------------|
|        |             |                |                |                |                       |                 |                 |              |
| 024039 | VX15 00 18V | 1/8"           | 5,5            | 25             | 36                    | 14              | 2,5             | 16           |
| 024040 | VX15 00 14V | 1/4"           | 6,5            | 27,5           | 42                    | 17              | 3               | 30           |

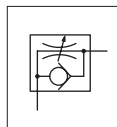
For banjo push-in fittings series RX

see page 5.150.5.



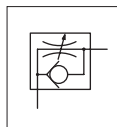
Swivel with push-in fitting

### For cylinder



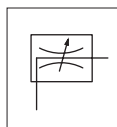
| Code   | Item      | Tube<br>Ø | D1   | D2 | L1  | L2   | L3<br>max | L4   | CH | Weight<br>gr |
|--------|-----------|-----------|------|----|-----|------|-----------|------|----|--------------|
| 024232 | VX180418C | 4         | 1/8" | 9  | 5   | 15.5 | 32        | 19,5 | 9  | 29           |
| 024233 | VX180618C | 6         | 1/8" | 12 | 5   | 15.5 | 32        | 22   | 9  | 27           |
| 024234 | VX180614C | 6         | 1/4" | 12 | 6.5 | 17.5 | 40        | 23,5 | 10 | 49           |
| 024235 | VX180818C | 8         | 1/8" | 14 | 5   | 15.5 | 32        | 22,5 | 9  | 31           |
| 024236 | VX180814C | 8         | 1/4" | 14 | 6.5 | 17.5 | 40        | 24   | 10 | 49           |
| 024237 | VX181014C | 10        | 1/4" | 16 | 6.5 | 17.5 | 40        | 26,5 | 10 | 53           |
| 024238 | VX181038C | 10        | 3/8" | 16 | 9   | 22   | 52        | 28   | 14 | 86           |

### For valves



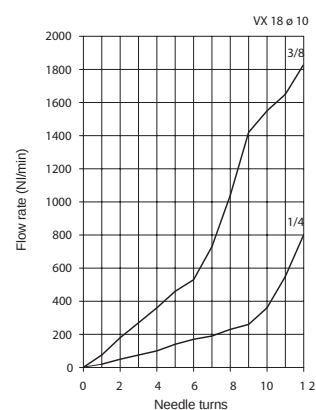
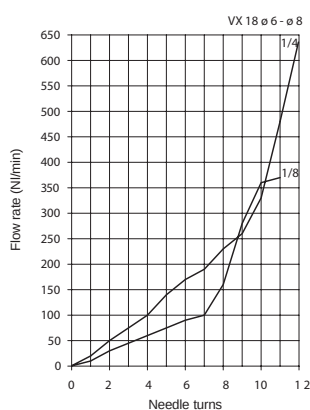
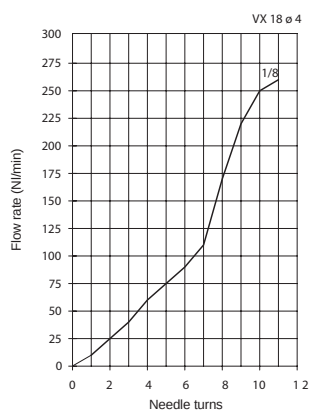
| Code   | Item      | Tube<br>Ø | D1   | D2 | L1  | L2   | L3<br>max | L4   | CH | Weight<br>gr |
|--------|-----------|-----------|------|----|-----|------|-----------|------|----|--------------|
| 024239 | VX180418V | 4         | 1/8" | 9  | 5   | 15.5 | 32        | 19,5 | 9  | 29           |
| 024240 | VX180618V | 6         | 1/8" | 12 | 5   | 15.5 | 32        | 22   | 9  | 27           |
| 024241 | VX180614V | 6         | 1/4" | 12 | 6.5 | 17.5 | 40        | 23,5 | 10 | 49           |
| 024242 | VX180818V | 8         | 1/8" | 14 | 5   | 15.5 | 32        | 22,5 | 9  | 31           |
| 024243 | VX180814V | 8         | 1/4" | 14 | 6.5 | 17.5 | 40        | 24   | 10 | 49           |
| 024244 | VX181014V | 10        | 1/4" | 16 | 6.5 | 17.5 | 40        | 26,5 | 10 | 53           |
| 024245 | VX181038V | 10        | 3/8" | 16 | 9   | 22   | 52        | 28   | 14 | 86           |

### Bi directional



| Code   | Item      | Tube<br>Ø | D1   | D2 | L1  | L2   | L3<br>max | L4   | CH | Weight<br>gr |
|--------|-----------|-----------|------|----|-----|------|-----------|------|----|--------------|
| 024246 | VX180418B | 4         | 1/8" | 9  | 5   | 15.5 | 32        | 19,5 | 9  | 29           |
| 024247 | VX180618B | 6         | 1/8" | 12 | 5   | 15.5 | 32        | 22   | 9  | 27           |
| 024248 | VX180614B | 6         | 1/4" | 12 | 6.5 | 17.5 | 40        | 23,5 | 10 | 49           |
| 024249 | VX180818B | 8         | 1/8" | 14 | 5   | 15.5 | 32        | 22,5 | 9  | 31           |
| 024250 | VX180814B | 8         | 1/4" | 14 | 6.5 | 17.5 | 40        | 24   | 10 | 49           |
| 024251 | VX181014B | 10        | 1/4" | 16 | 6.5 | 17.5 | 40        | 26,5 | 10 | 53           |
| 024252 | VX181038B | 10        | 3/8" | 16 | 9   | 22   | 52        | 28   | 14 | 86           |

## Flow diagrams





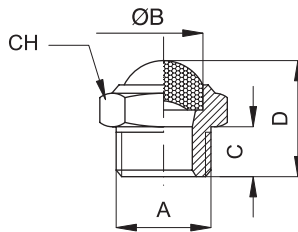


| Standard executions                                |        |      |
|----------------------------------------------------|--------|------|
| Version                                            | Symbol | Type |
| Silencer with mesh                                 |        | AFEX |
| Conical silencer with hexagonal nut                |        | AEX  |
| Silencer, flat and hexagon nut on nipple           |        | AEPX |
| Silenced exhaust restrictor with manual adjustment |        | AVRX |



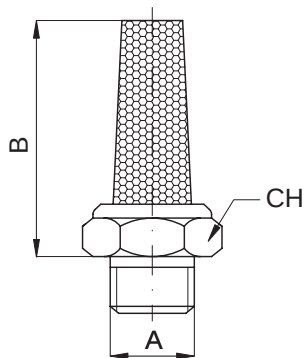
Series of stainless steel silencers and silenced exhaust restrictors to be used on the exhausts of valves to reduce the noise. The silenced exhaust restrictors, furthermore, adjust the exhaust speed and therefore the translation velocity of the cylinders. For standard items, codes and dimensions see tables from page 5.190.2.

| Technical data    |                          |                          |      |      |
|-------------------|--------------------------|--------------------------|------|------|
| Fluid             | Compressed air           |                          |      |      |
| Pressure range    | 0 ÷ 10 bar               |                          |      |      |
| Temperature range | -40 °C ÷ + 150°C         |                          |      |      |
| Parallel threads  | UNI - ISO 228            |                          |      |      |
| Materials         | AFEX                     | AEX                      | AEPX | AVRX |
|                   | Stainless Steel AISI 304 | Stainless Steel AISI 316 |      |      |



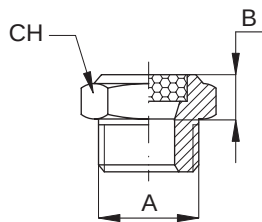
Silencer with mesh

| Code   | Item   | A    | B   | CH | C  | D  |
|--------|--------|------|-----|----|----|----|
| 010327 | AFEXM5 | 5MA  | 6,5 | 8  | 4  | 8  |
| 010321 | AFEX18 | 1/8" | 11  | 13 | 6  | 15 |
| 010322 | AFEX14 | 1/4" | 14  | 16 | 8  | 18 |
| 010345 | AFEX38 | 3/8" | 17  | 19 | 9  | 19 |
| 010346 | AFEX12 | 1/2" | 22  | 24 | 10 | 22 |
| 010330 | AFEX34 | 3/4" | 28  | 30 | 10 | 27 |
| 010329 | AFEX01 | 1"   | 34  | 36 | 15 | 29 |



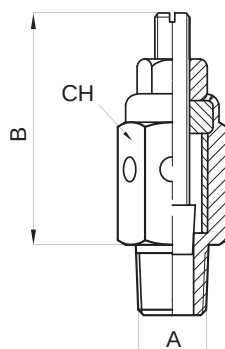
Conical silencer with exagonal nut

| Code   | Item  | A    | B    | C  |
|--------|-------|------|------|----|
| 010358 | AEXM5 | M5   | 16   | 9  |
| 010351 | AEX18 | 1/8" | 22   | 12 |
| 010352 | AEX14 | 1/4" | 24   | 15 |
| 011033 | AEX38 | 3/8" | 30   | 19 |
| 010353 | AEX12 | 1/2" | 38.5 | 23 |
| 010354 | AEX34 | 3/4" | 47   | 30 |
| 010355 | AEX01 | 1"   | 56   | 36 |



Silencer, flat and hexagon nut on nipple

| Code   | Item   | A    | B    | CH |
|--------|--------|------|------|----|
| 010360 | AEPXM5 | M5   | 4.5  | 8  |
| 010361 | AEPX18 | 1/8" | 6.2  | 12 |
| 010362 | AEPX14 | 1/4" | 6.2  | 15 |
| 010363 | AEPX38 | 3/8" | 6.7  | 19 |
| 010364 | AEPX12 | 1/2" | 9.2  | 23 |
| 010365 | AEPX34 | 3/4" | 9.7  | 30 |
| 010366 | AEPX01 | 1"   | 10.7 | 36 |



Silenced exhaust restrictors with screwdriver nut

| Code   | Item   | A    | B    | CH |
|--------|--------|------|------|----|
| 023518 | AVRX18 | 1/8" | 21.5 | 12 |
| 023519 | AVRX14 | 1/4" | 28   | 14 |
| 023520 | AVRX38 | 3/8" | 26   | 17 |
| 023527 | AVRX12 | 1/2" | 32   | 22 |
| 023528 | AVRX34 | 3/4" | 36.5 | 27 |
| 023529 | AVRX01 | 1"   | 36.5 | 34 |