

Euromold

a Nexans company



Medium voltage
equipment bushings

Catalogue 2014

Nexans Network Solutions Div. Euromold COMPANY PRESENTATION



EUROMOLD

Euromold is the leading European specialised designer, manufacturer and distributor of prefabricated cable accessories for medium voltage energy distribution. Euromold provides a complete range of accessories for underground cables: premoulded EPDM rubber connectors for cables and epoxy bushings for transformers and switchgear, as well as a large range of cold-shrinkable terminations and joints from 12 to 42 kV. Euromold is also the manufacturer of electrical components for the high voltage accessories of the Nexans group.

ISO 9001 Certificate

Since 1992, Euromold's commitment to quality is demonstrated by its ISO 9001 certification.

International standards

All our products meet the International standards like CENELEC HD 629.1, CENELEC EN 50180, IEC 60137, IEC 60502-4... or country specifications. Official certificates, CESI, KEMA, ATEX... prove the conformity of our products. Long duration tests of existing or new products are continuously performed in our test fields.

Laboratory accreditation

Since June 2000, Euromold's independent ELAB laboratory obtained the BELAC accreditation no.144-TEST conform with the European standards for laboratories ISO 17025 for electrical testing of low and medium voltage cable accessories according to the international standards EN 50393, IEC 60502-4, IEC 61442 and HD 629.

While every care is taken to ensure that the information contained in this publication is correct, no legal responsibility can be accepted for any inaccuracy. Nexans Network Solutions N.V. - Div. Euromold reserves the right to alter or modify the characteristics of its products described in this catalogue as standards and technology evolve.

EQUIPMENT BUSHINGS

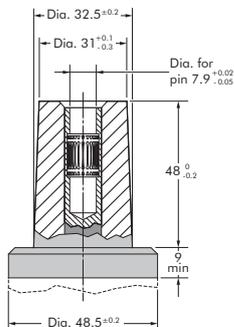
I Table of contents

- 180AR-1 - interface A1 equipment bushing
- 180AR-2 - interface A1 equipment bushing
- 180AR-3 - interface A1 equipment bushing
- 250SFR-P - interface A1 equipment bushing
- 180A-24P-O - interface A1 in-air bushing
- 400T1 - interface B2 equipment bushing
- 400AR-1 - interface B2 equipment bushing
- 400AR-2 - interface B2 equipment bushing
- 400AR-8 - interface B1 equipment bushing
- 400SFR-P - interface B2 equipment bushing
- 400AR-3 - interface C1 equipment bushing
- 400AR-4 - interface C2 equipment bushing
- 400AR-5 - interface C2 equipment bushing
- 400AR-6 - interface C1 equipment bushing
- 400SFR-B - interface C1 & C2 equipment bushing
- 400A-24B - interface C1 in-air bushing
- 670AR-2 - interface D2 equipment bushing
- 900AR-1 - interface F3 equipment bushing
- 900AR-2 - interface F2 equipment bushing
- 900AR-3 - interface F1 equipment bushing
- 900AR-4 - interface F1 equipment bushing

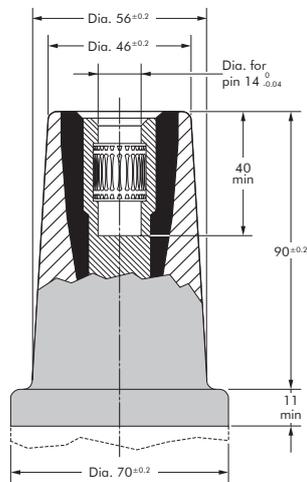
DIMENSIONS & RATINGS OF EQUIPMENT BUSHINGS

Dimensions

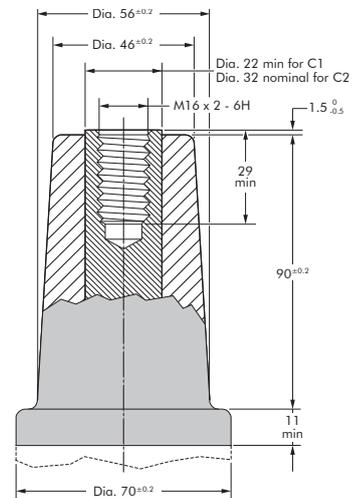
These diagrams show the dimensions of the interfaces of equipment bushings according to CENELEC standards EN 50180:2010 and EN 50181:2010.



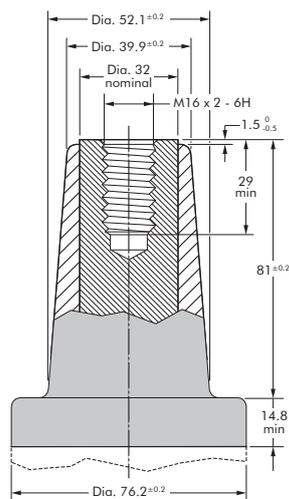
Interface A1



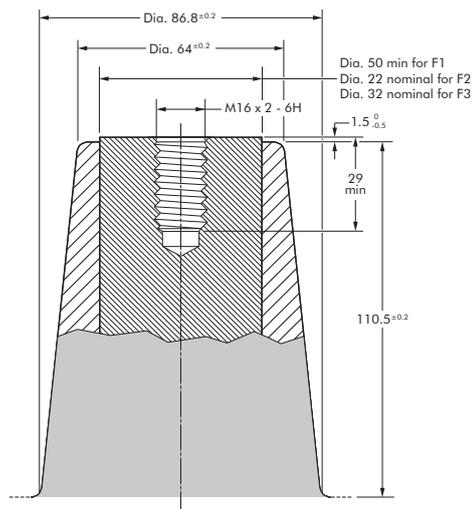
Interface B1 & B2



Interface C1 & C2



Interface D1 & D2



Interface F1, F2 & F3

In mm.

Short circuit ratings

| Interface type | Contact type | Current rating (A) | RMS symm. (kA) | | | Peak asymm. (kA) |
|----------------|----------------|--------------------|----------------|--------|--------|------------------|
| | | | 1 sec. | 2 sec. | 3 sec. | |
| A1 | Pin and socket | 250 | 12.5 | 9.0 | 7.5 | 31 |
| B1 | Pin and socket | 250 | 12.5 | 9.0 | 7.5 | 31 |
| B2 | Pin and socket | 400 | 16.0 | 11.3 | 9.2 | 40 |
| C1 | Bolted | 630 | 28.0 | 19.7 | 16.1 | 70 |
| C2 | Bolted | 1250 | 75.0 | 53.0 | 43.3 | >150 |
| D1 | Bolted | 800 | 50.0 | 35.3 | 28.8 | 125 |
| D2 | Bolted | 1250 | 75.0 | 53.0 | 43.3 | >150 |
| F1 | Bolted | 2500 | - | - | - | - |
| F2 | Bolted | 630 | 28.0 | 19.7 | 16.1 | 70 |
| F3 | Bolted | 1250 | 75.0 | 53.0 | 43.3 | >150 |

180AR-1 /180AR-2 /180AR-3 INTERFACE A1 EQUIPMENT BUSHINGS

Up to 24 kV - 250 A

Application

For use in equipment insulated with oil fluid, typically for transformers, switchgear, capacitors...

Specifications and standards

The plug-in type equipment bushings 180AR-... meet the requirements of CENELEC EN 50180 and IEC 60137.

Technical characteristics

Each bushing is tested for AC withstand and partial discharge prior to leaving the factory.

6/10 (12) kV
6.35/11 (12) kV
8.7/15 (17.5) kV
12/20 (24) kV
12.7/22 (24) kV

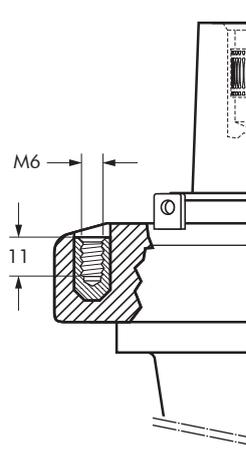
Design

- The equipment bushings are moulded epoxy insulated parts in accordance with CENELEC EN 50180. The 180AR-2 bushing has a length B outside this standard.
- The standard bushings, (K)180AR-1 /-2 /-3, are equipped with 6 tabs for the bail restraint.
- The (K)180AR-1-G and (K)180AR-3-G are equipped with 4 tabs and 2 threaded inserts M6 (-G version).

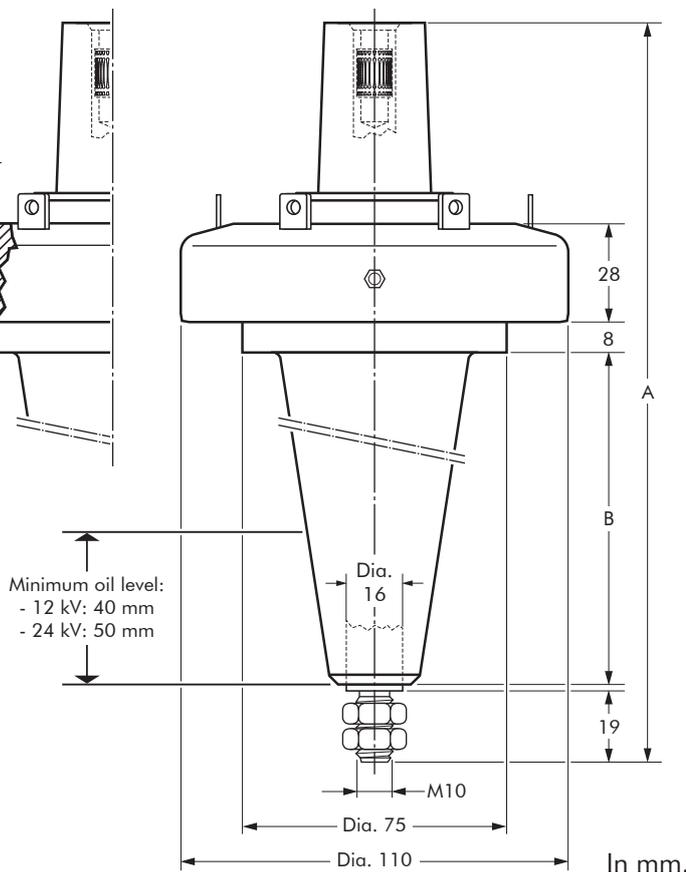
Ordering instructions

To order the equipment bushing, specify the type. The bushings are supplied with an earth jumper (/J) or an earth plate (/GS). This earth connection must be specified when ordering. E.g. K180AR-1/J.

Type 180AR-1-G /-3-G



Type 180AR-1 /-2 /-3

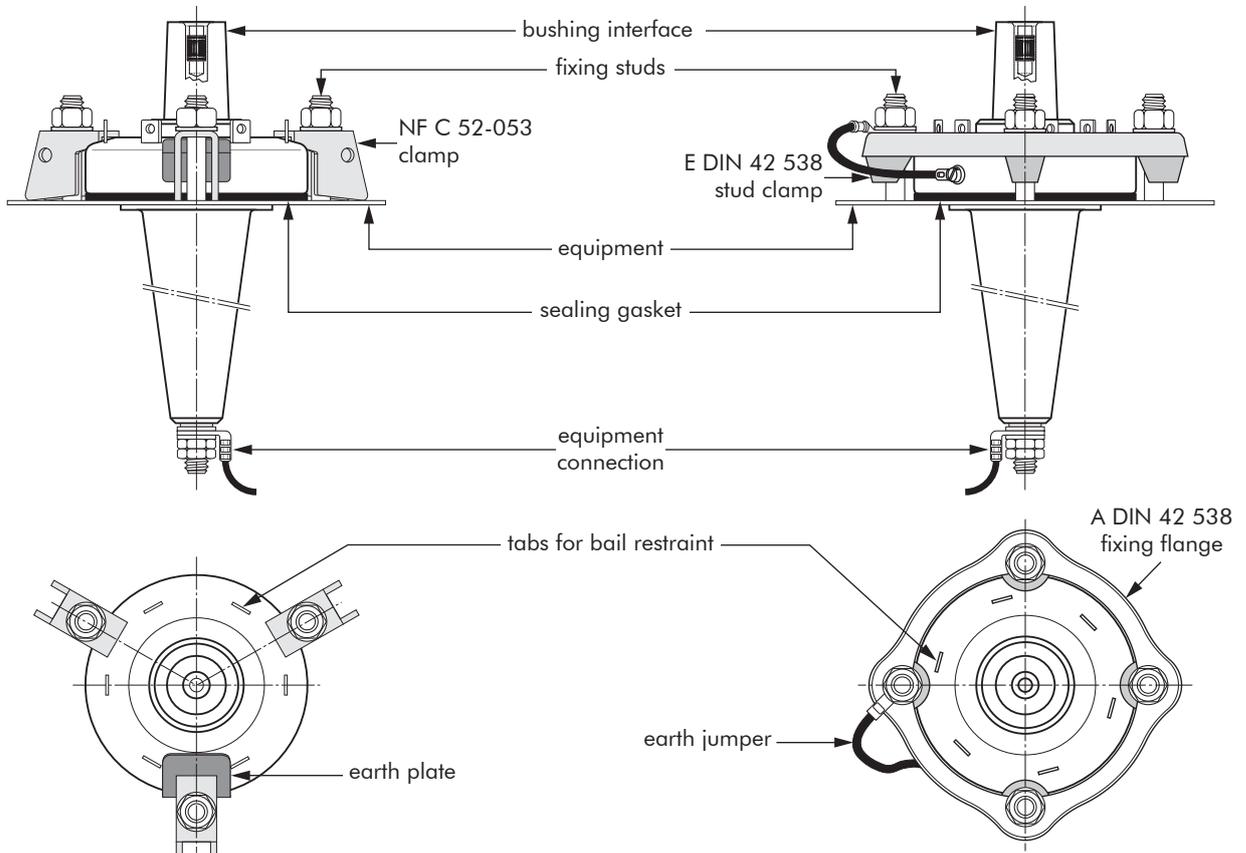


| Equipment bushing type | Voltage U_m (kV) | Current I_r (A) | Dimensions (mm) | |
|------------------------|--------------------|-------------------|-----------------|-----|
| | | | A | B |
| 180AR-1 | 12 | 250 | 222 | 106 |
| K180AR-1 | 24 | 250 | 222 | 106 |
| 180AR-2 | 12 | 250 | 284 | 168 |
| K180AR-2 | 24 | 250 | 284 | 168 |
| 180AR-3 | 12 | 250 | 171 | 55 |
| K180AR-3 | 24 | 250 | 171 | 55 |

FIXINGS FOR EQUIPMENT BUSHINGS

- | 180AR-1/GS
- | 180AR-1-G/GS
- | 180AR-2/GS
- | 180AR-3/GS and
- | 180AR-3-G/GS Bushings

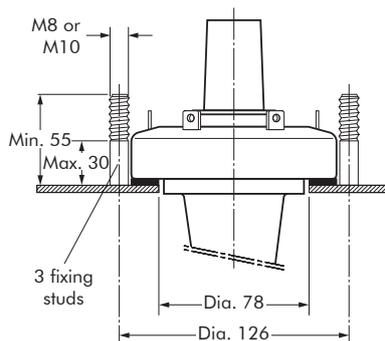
- | 180AR-1/J
- | 180AR-1-G/J
- | 180AR-2/J
- | 180AR-3/J and
- | 180AR-3-G/J Bushings



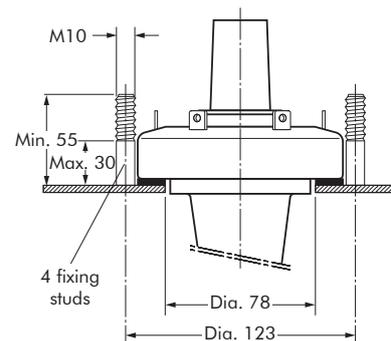
- | **Bushing clamping kit**
- To order the bushing clamping kit, according to NFC 52-053 standards, simply specify KBCNF1-200.
- Contents: - 3 x claw clamp NF200
- 1 x sealing gasket.

- | **Bushing clamping kit**
- To order the bushing clamping kit, according to DIN 42 538 standards, simply specify: KBCD-200.
- Contents: - 1 x fixing flange A
- 4 x stud clamp E
- 1 x sealing gasket.

- | **Fixing dimensions standards NF C 52-053**
- French standards.



- | **Fixing dimensions standards DIN 42 538**
- German standards.



In mm.

250SFR-P INTERFACE A1 EQUIPMENT BUSHING

Up to 24 kV - 250 A

Application

For use in equipment insulated with SF₆ gas.

Technical characteristics

Each bushing is tested for AC withstand and partial discharge prior to leaving the factory.

6/10 (12) kV
6.35/11 (12) kV
8.7/15 (17.5) kV
12/20 (24) kV
12.7/22 (24) kV

Design

The equipment bushing is a moulded epoxy insulated part with a connector interface in accordance with CENELEC EN 50180.

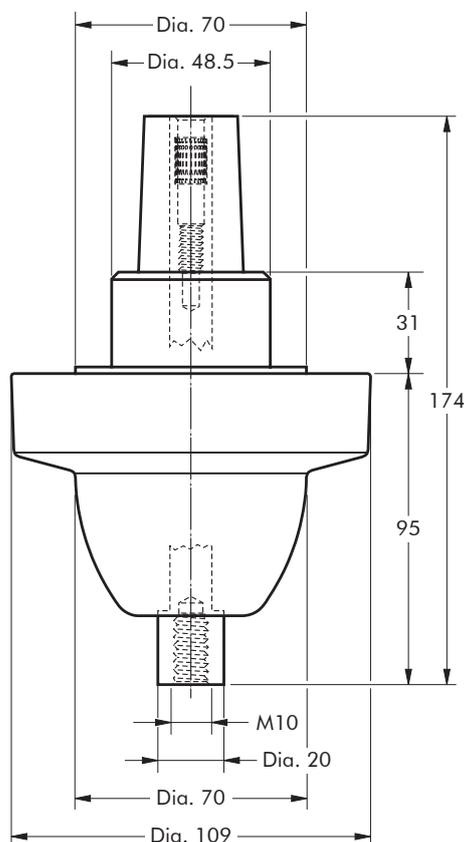
The 250SFR-P bushing has a shank outside this standard, adapted to use in SF₆ gas.

Specifications and standards

The plug-in type equipment bushings 250SFR-P meet the requirements of CENELEC EN 50180 and IEC 60137.

Ordering instructions

To order the equipment bushing, simply specify the type.



In mm.

| Equipment bushing type | Voltage Um (kV) | Current Ir (A) |
|------------------------|-----------------|----------------|
| 250SFR-P | 12 | 250 |
| K250SFR-P | 24 | 250 |

06/2014

180A-24P-O INTERFACE A1 IN-AIR BUSHING

Up to 24 kV - 250 A

Application

For use in equipment insulated with air, typically for dry type transformers, motors, switchgear, capacitors...

Technical characteristics

Each bushing is tested for AC withstand and partial discharge prior to leaving the factory.

6/10 (12) kV
6.35/11 (12) kV
8.7/15 (17.5) kV
12/20 (24) kV
12.7/22 (24) kV

Specifications and standards

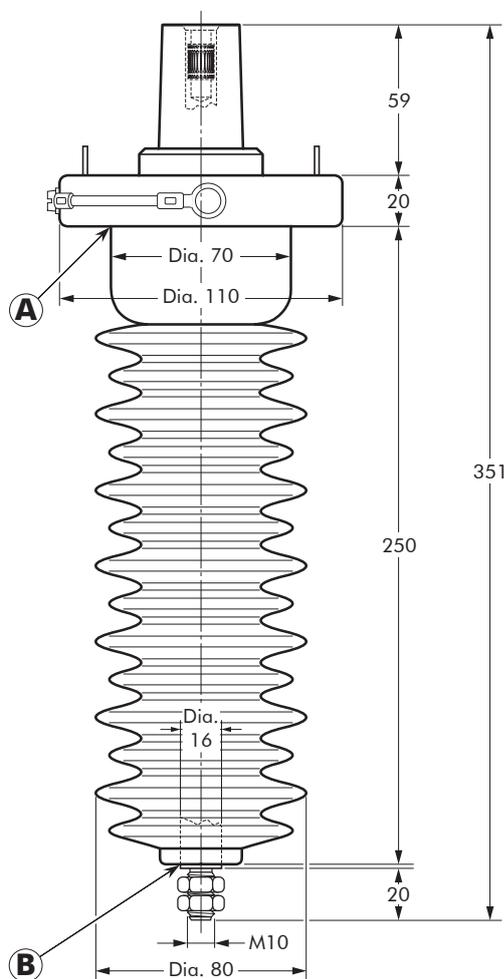
The plug-in type equipment bushings 180A-24P-O are moulded epoxy insulated parts and meet the requirements of CENELEC EN 50181, IEC 60071 and IEC 60137.

Ordering instructions

To order the equipment bushing, specify the type. The bushings are supplied with an earth jumper. To include the ring clamp, add:

- /B, if per British standards
- /D, if per German standards
- /F, if per French standards.

E.g. 180A-24P-O/F.



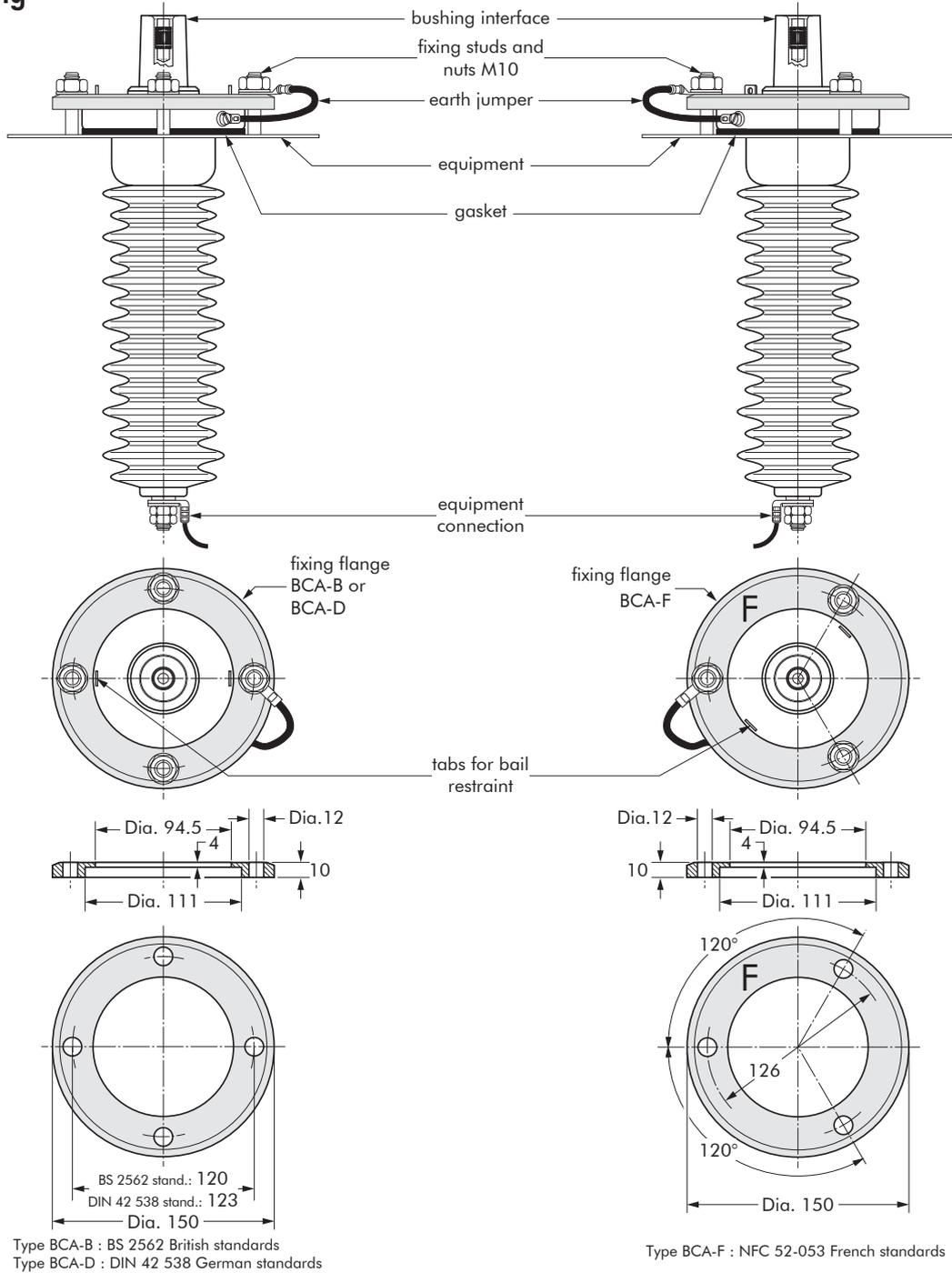
In mm.

| Equipment bushing type | Voltage U_m (kV) | Current I_r (A) | Creepage distance A-B (mm) |
|------------------------|--------------------|-------------------|----------------------------|
| 180A-24P-O | 12 | 250 | 630 |
| 180A-24P-O | 24 | 250 | 630 |

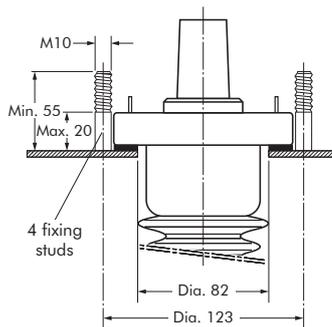
06/2014

FIXINGS FOR EQUIPMENT BUSHINGS

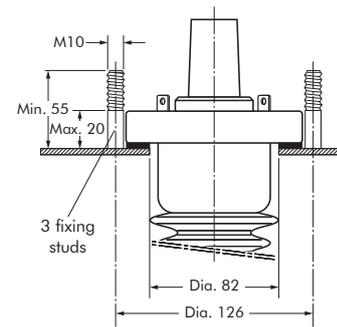
180A-24P-O In-air bushing



Fixing dimensions standards DIN 42 538 German standards.



Fixing dimensions standards NF C 52-053 French standards.



400T1 /400AR-1 /400AR-2 INTERFACE B2 EQUIPMENT BUSHINGS

Application

For use in equipment insulated with oil fluid, typically for transformers, switchgear, capacitors...

Technical characteristics

Each bushing is tested for AC withstand and partial discharge prior to leaving the factory.

Up to 36 kV - 400 A

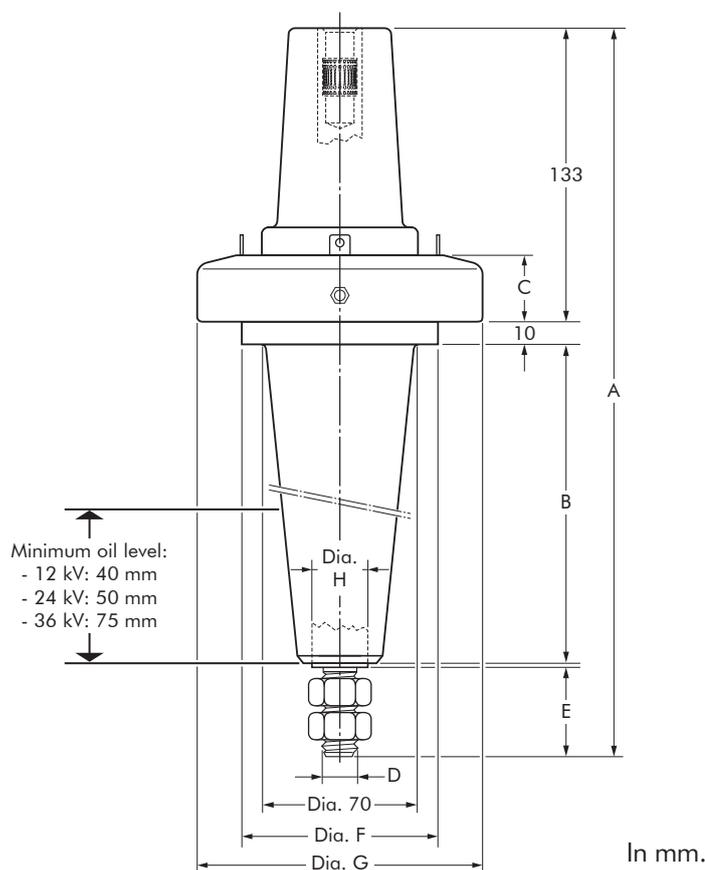
6/10 (12) kV
6.35/11 (12) kV
8.7/15 (17.5) kV
12/20 (24) kV
12.7/22 (24) kV
18/30 (36) kV
19/33 (36) kV

Specifications and standards

The plug-in type equipment bushings are moulded epoxy insulated parts and meet the requirements of IEC 60137. The (K)(M)400T1 also meets CENELEC EN 50180 .

Ordering instructions

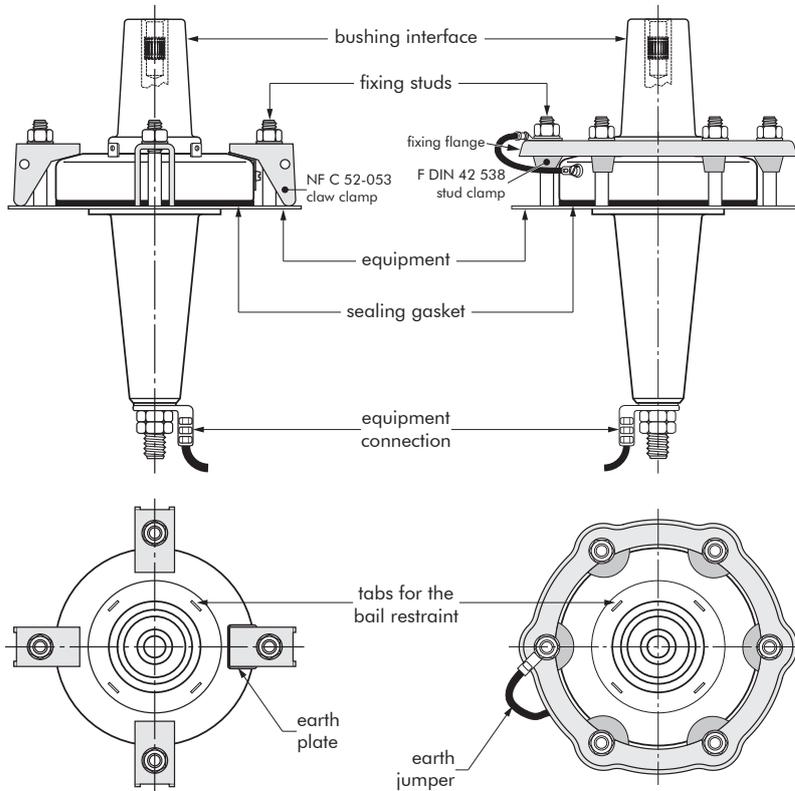
To order the equipment bushing, specify the type. The bushings are supplied with an earth jumper (/J) or an earth plate (/GS). This earth connection must be specified when ordering. E.g. K400AR-1/J.



| Equipment bushing type | Voltage Um (kV) | Current Ir (A) | Dimensions (mm) | | | | | | | |
|------------------------|-----------------|----------------|-----------------|-----|----|-----|----|--------|--------|--------|
| | | | A | B | C | D | E | Dia. F | Dia. G | Dia. H |
| 400T1 | 12 | 400 | 310 | 144 | 30 | M12 | 22 | 88 | 128 | 16 |
| K400T1 | 24 | 400 | 310 | 144 | 30 | M12 | 22 | 88 | 128 | 16 |
| M400T1 | 36 | 400 | 310 | 144 | 30 | M12 | 22 | 88 | 128 | 16 |
| 400AR-1 | 12 | 400 | 380 | 213 | 30 | M12 | 22 | 74 | 128 | 16 |
| K400AR-1 | 24 | 400 | 380 | 213 | 30 | M12 | 22 | 74 | 128 | 16 |
| M400AR-1 | 36 | 400 | 380 | 213 | 30 | M12 | 22 | 74 | 128 | 16 |
| 400AR-2 | 12 | 400 | 329 | 138 | 36 | M16 | 40 | 100 | 150 | 30 |
| K400AR-2 | 24 | 400 | 329 | 138 | 36 | M16 | 40 | 100 | 150 | 30 |
| M400AR-2 | 36 | 400 | 329 | 138 | 36 | M16 | 40 | 100 | 150 | 30 |

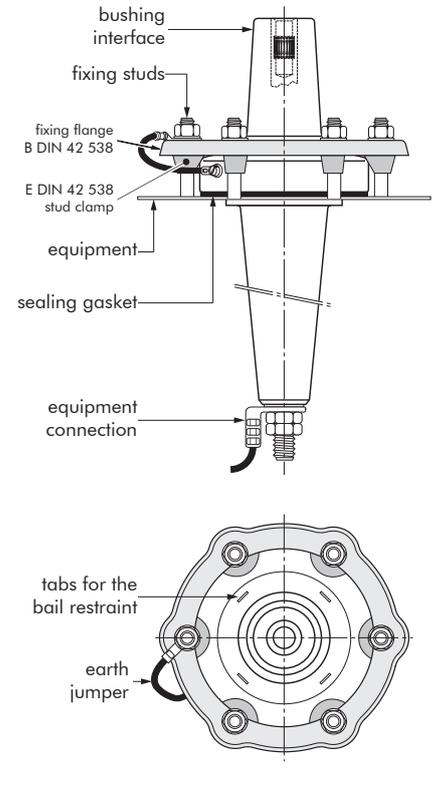
FIXINGS FOR EQUIPMENT BUSHINGS

400AR-2/GS Bushing



400AR-2/J Bushing

400AR-1/J and 400T1/J Bushings



Bushing clamping kit

To order the bushing clamping kit, according to NFC 52-053 standards, simply specify KBCNF-400 (for bushing type 400AR-2).

Contents: - 4 x claw clamp NF400
- 1 x sealing gasket.

Bushing clamping kit

To order the bushing clamping kit, simply specify: KBCDS-400B.

Contents: - 1 x fixing flange
- 6 x stud clamp F
- 1 x sealing gasket.

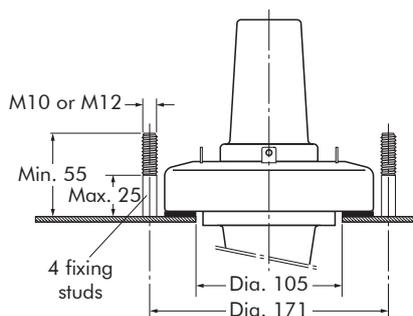
Bushing clamping kit

To order the bushing clamping kit, according to DIN 42 538 standards, simply specify KBCD-400B.

Contents: - 1 x fixing flange B
- 6 x stud clamp E
- 1 x sealing gasket.

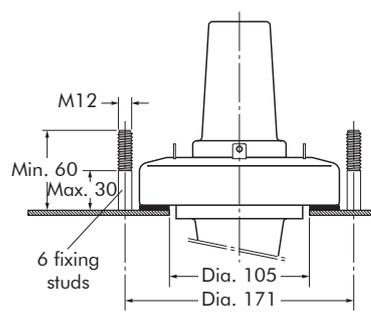
Fixing dimensions standards NF C 52-053

French standards.



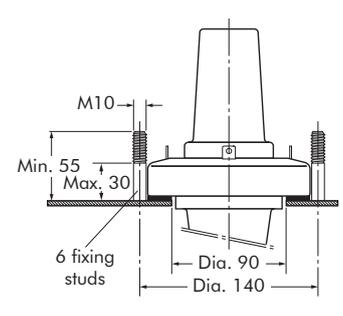
Fixing dimensions

French standards.



Fixing dimensions standards DIN 42 538

German standards.



In mm.

400AR-8 INTERFACE B1 EQUIPMENT BUSHING

Up to 36 kV - 250 A

Application

For use in equipment insulated with oil fluid, typically for transformers, switchgear, capacitors...

Technical characteristics

Each bushing is tested for AC withstand and partial discharge prior to leaving the factory.

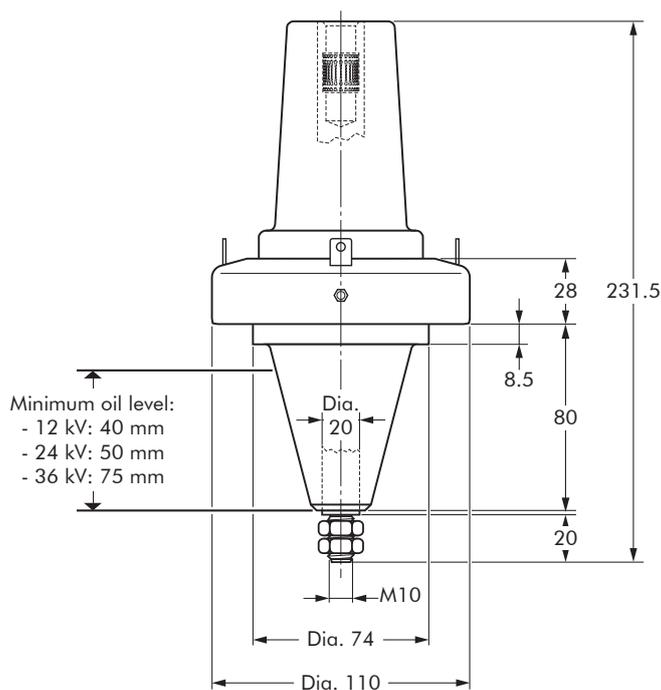
6/10 (12) kV
6,35/11 (12) kV
8,7/15 (17,5) kV
12/20 (24) kV
12,7/22 (24) kV
18/30 (36) kV

Specifications and standards

The plug-in type equipment bushings 400AR-8 are moulded epoxy insulated parts and meet the requirements of CENELEC EN 50180 and IEC 60137.

Ordering instructions

To order the equipment bushing, specify the type. The bushings can be supplied with an earth jumper (/J).
E.g. M400AR-8/J.



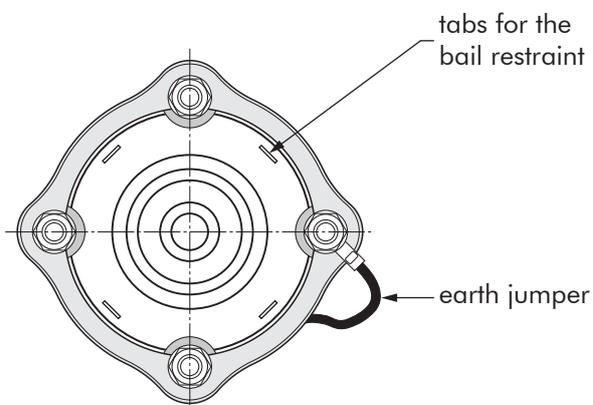
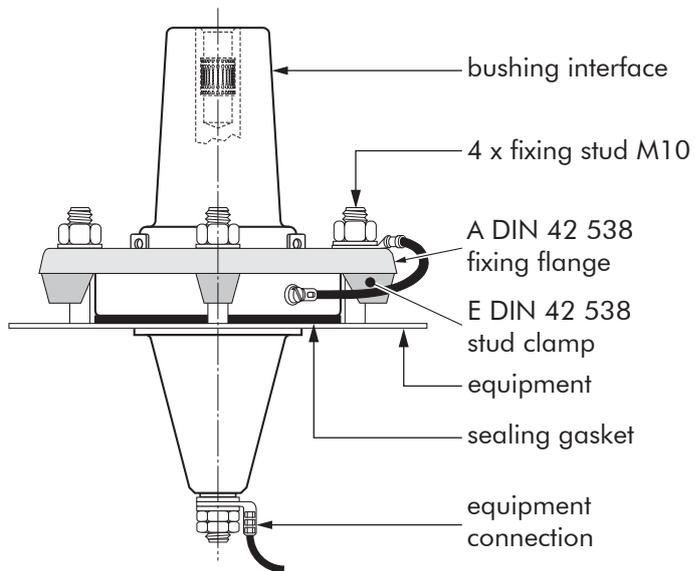
In mm.

| Equipment bushing type | Voltage U_m (kV) | Current I_r (A) |
|------------------------|--------------------|-------------------|
| 400AR-8 | 12 | 250 |
| K400AR-8 | 24 | 250 |
| M400AR-8 | 36 | 250 |

06/2014

FIXINGS FOR EQUIPMENT BUSHINGS

400AR-8/J Bushing



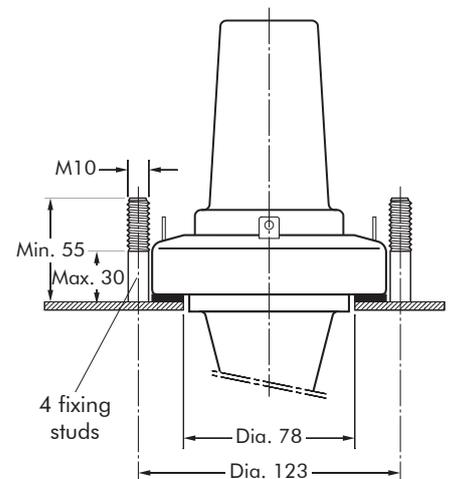
Bushing clamping kit

To order the bushing clamping kit, according to DIN 42 538 standards, simply specify: KBCD-200.

Contents: - 1 x fixing flange A
 - 4 x stud clamp E
 - 1 x sealing gasket.

Fixing dimensions standards DIN 42 538

German standards.



In mm.

400SFR-P INTERFACE B2 EQUIPMENT BUSHING

Up to 36 kV - 400 A

Application

For use in equipment insulated with SF₆ gas.

Technical characteristics

Each bushing is tested for AC withstand and partial discharge prior to leaving the factory.

6/10 (12) kV
6.35/11 (12) kV
8.7/15 (17.5) kV
12/20 (24) kV
12.7/22 (24) kV
18/30 (36) kV
19/33 (36) kV

Design

The equipment bushing is a moulded epoxy insulated part with a connector interface in accordance with CENELEC EN 50180.

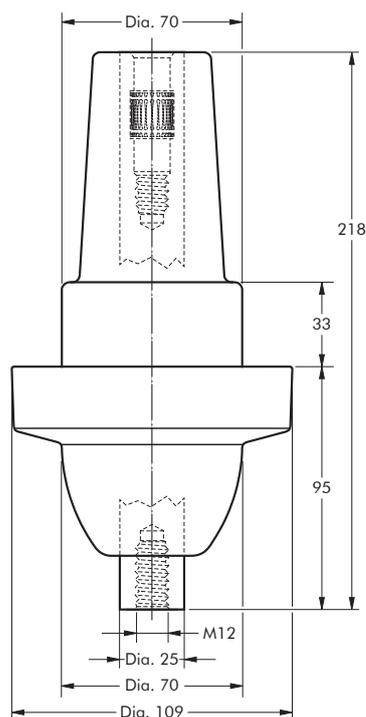
The 400SFR-P bushing has a shank outside this standard, adapted for use in SF₆ gas.

Specifications and standards

The plug-in type equipment bushing 400SFR-P meets the requirements of CENELEC EN 50180 and IEC 60137.

Ordering instructions

To order the equipment bushing, simply specify the type.



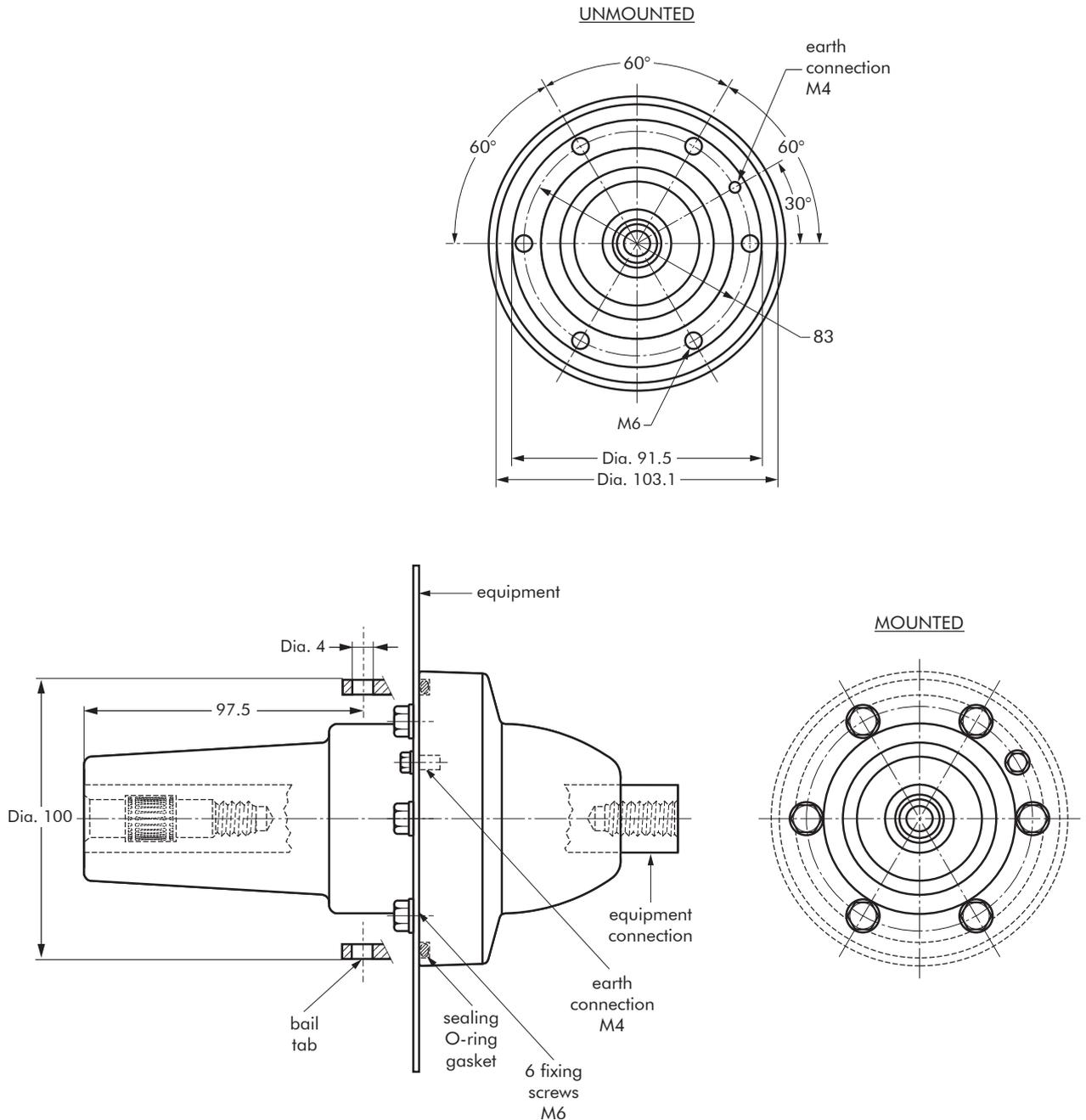
In mm.

| Equipment bushing type | Voltage Um (kV) | Current Ir (A) |
|------------------------|-----------------|----------------|
| 400SFR-P | 12 | 400 |
| K400SFR-P | 24 | 400 |
| M400SFR-P | 36 | 400 |

06/2014

FIXINGS FOR EQUIPMENT BUSHINGS

400SFR-P Bushing for gas insulated switchgear



In mm.

400AR-3 INTERFACE C1 EQUIPMENT BUSHING

Up to 36 kV - 630 A

Application

For use in equipment insulated with oil fluid, typically for transformers, switchgear, capacitors...

Technical characteristics

Each bushing is tested for AC withstand and partial discharge prior to leaving the factory.

6/10 (12) kV
6.35/11 (12) kV
8.7/15 (17.5) kV
12/20 (24) kV
12.7/22 (24) kV
18/30 (36) kV
19/33 (36) kV

Specifications and standards

The bolted type equipment bushings 400AR-3 are moulded epoxy insulated parts and meet the requirements of CENELEC EN 50180 and IEC 60137.

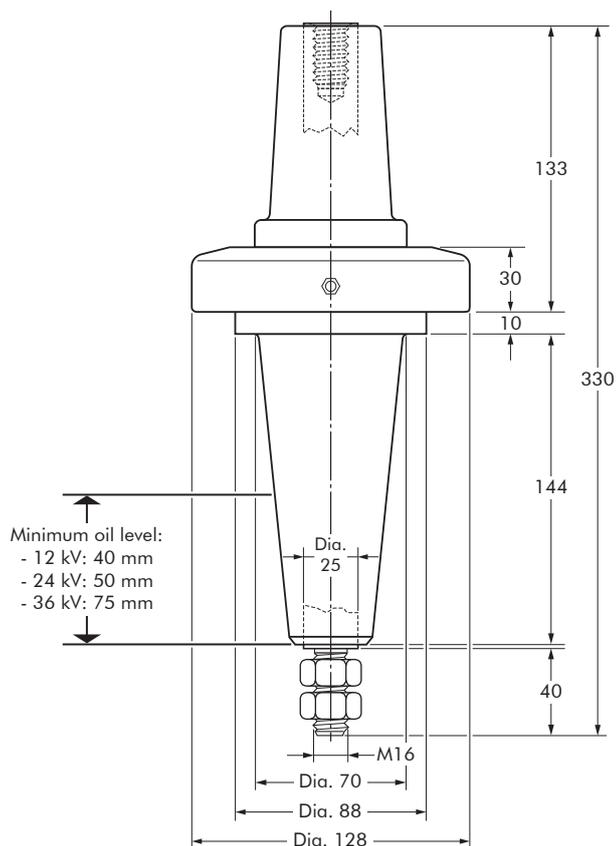
Ordering instructions

To order the equipment bushing, specify the type.

The bushings can be supplied with an earth jumper (J).

E.g. M400AR-3/J.

For use in potentially explosive atmospheres (for 12 kV max), order: 400AR-3/ATEX.



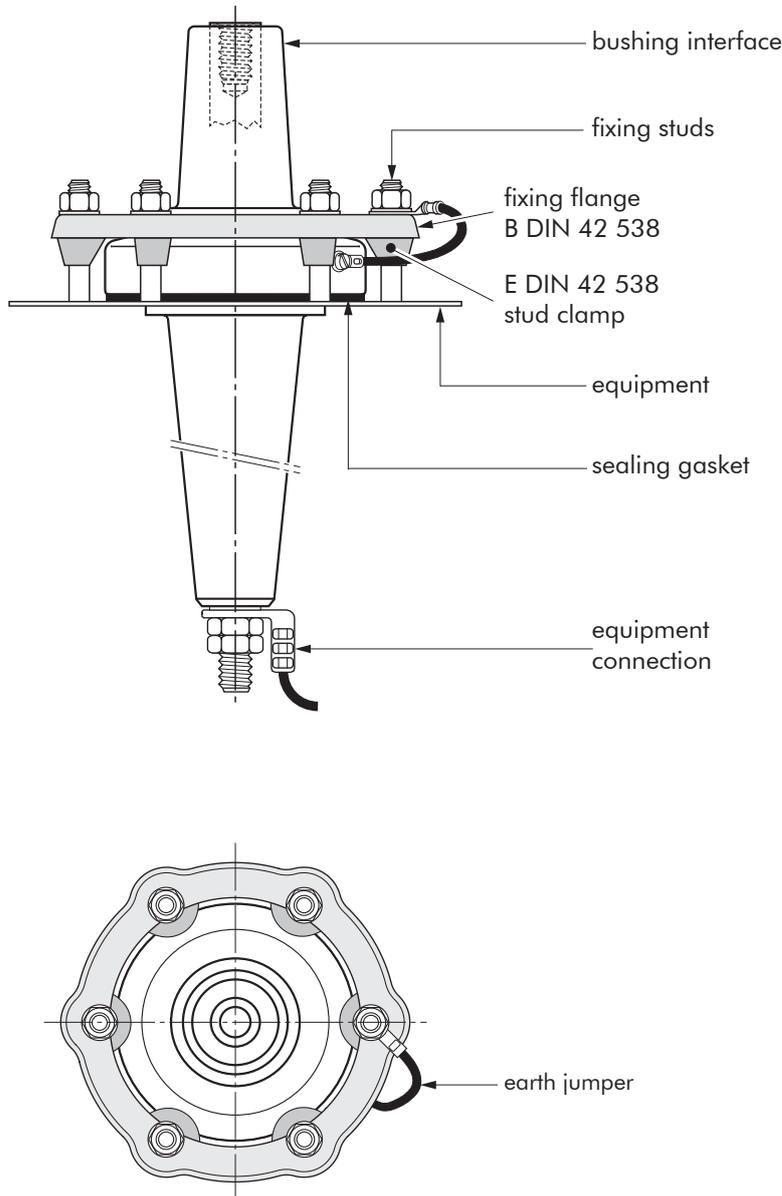
In mm.

| Equipment bushing type | Voltage U_m (kV) | Current I_r (A) |
|------------------------|--------------------|-------------------|
| 400AR-3 | 12 | 630 |
| K400AR-3 | 24 | 630 |
| M400AR-3 | 36 | 630 |

06/2014

FIXINGS FOR EQUIPMENT BUSHINGS

400AR-3/J Bushing



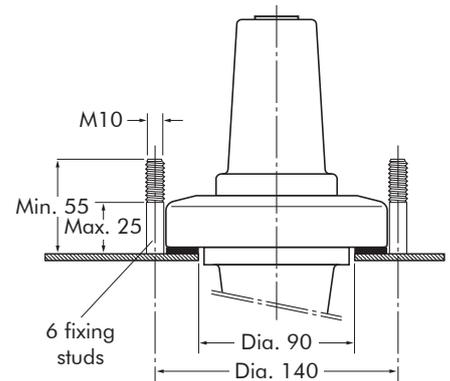
Bushing clamping kit

To order the bushing clamping kit, according to DIN 42 538 standards, simply specify KBCD-400B.

Contents: - 1 x fixing flange B
 - 6 x stud clamp E
 - 1 x sealing gasket.

Fixing dimensions standards DIN 42 538

German standards.



In mm.

400AR-4 INTERFACE C2 EQUIPMENT BUSHING

Up to 36 kV - 1250 A

Application

For use in equipment insulated with oil fluid, typically for transformers, switchgear, capacitors...

Technical characteristics

Each bushing is tested for AC withstand and partial discharge prior to leaving the factory.

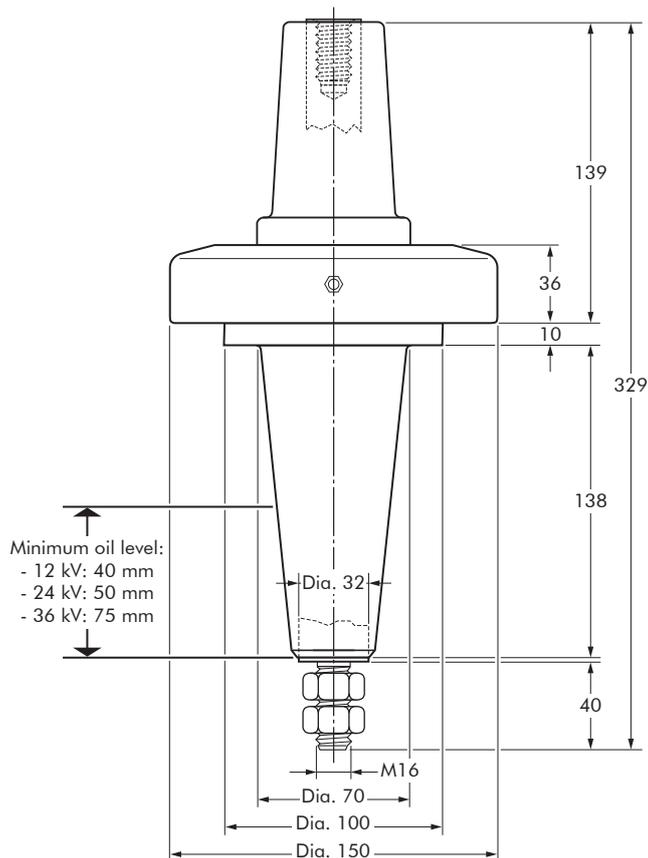
| | | |
|---------|--------|----|
| 6/10 | (12) | kV |
| 6.35/11 | (12) | kV |
| 8.7/15 | (17.5) | kV |
| 12/20 | (24) | kV |
| 12.7/22 | (24) | kV |
| 18/30 | (36) | kV |
| 19/33 | (36) | kV |

Specifications and standards

The bolted type equipment bushings 400AR-4 are moulded epoxy insulated parts and meet the requirements of CENELEC EN 50180 and IEC 60137.

Ordering instructions

To order the equipment bushing, specify the type. The bushings can be supplied with an earth jumper (/J) or an earth plate (/GS). This earth connection must be specified when ordering.
E.g. M400AR-4/GS.



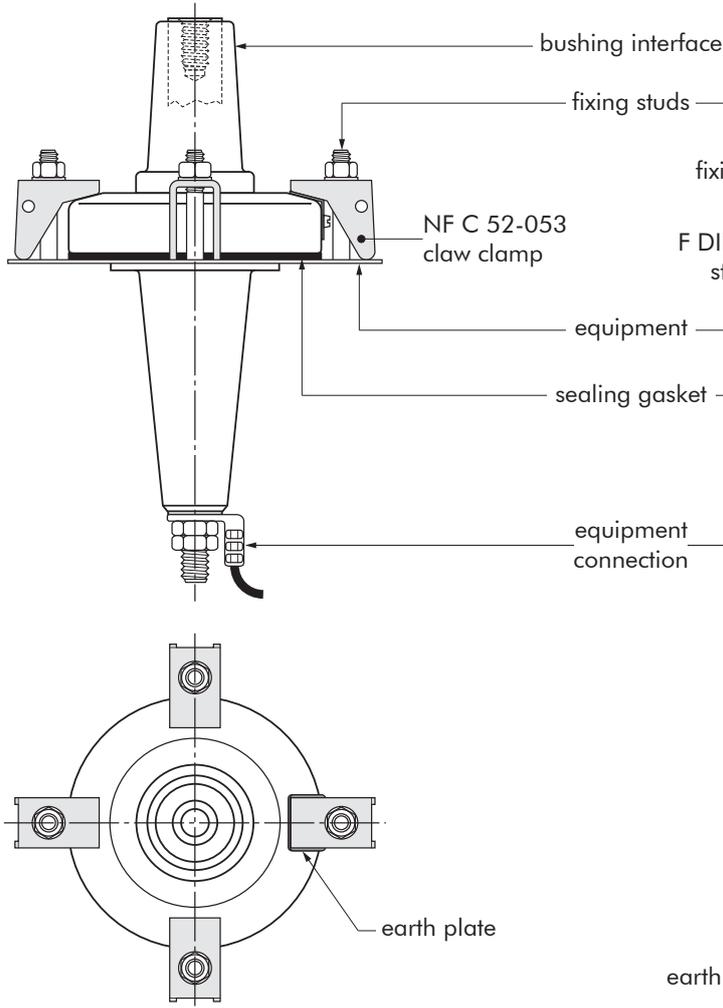
In mm.

| Equipment bushing type | Voltage U_m (kV) | Current I_r (A) |
|------------------------|--------------------|-------------------|
| 400AR-4 | 12 | 1250 |
| K400AR-4 | 24 | 1250 |
| M400AR-4 | 36 | 1250 |

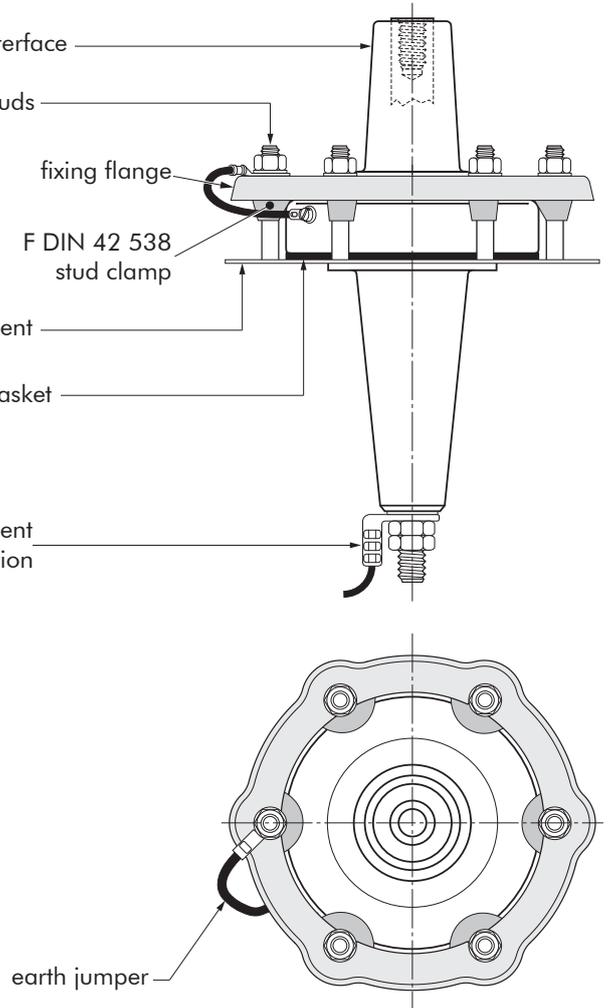
06/2014

FIXINGS FOR EQUIPMENT BUSHINGS

400AR-4/GS Bushing



400AR-4/J Bushing



Bushing clamping kit

To order the bushing clamping kit, according to NFC 52-053 standards, simply specify KBCNF-400.

Contents: - 4 x claw clamp
NF400
- 1 x sealing gasket.

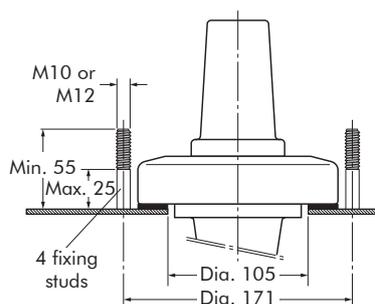
Bushing clamping kit

To order the bushing clamping kit with DIN style fixing flange, simply specify KBCDS-400.

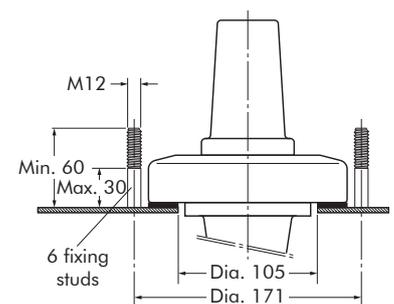
Contents: - 1 x fixing flange
DIN style
- 6 x stud clamp
F DIN 42 538
- 1 x sealing gasket.

Fixing dimensions standards NF C 52-053

French standards.



Fixing dimensions



In mm.

400AR-5 INTERFACE C2 EQUIPMENT BUSHING

Up to 36 kV - 1250 A

6/10 (12) kV
6.35/11 (12) kV
8.7/15 (17.5) kV
12/20 (24) kV
12.7/22 (24) kV
18/30 (36) kV

Application

For use in equipment insulated with oil fluid, typically for transformers, switchgear, capacitors...

Technical characteristics

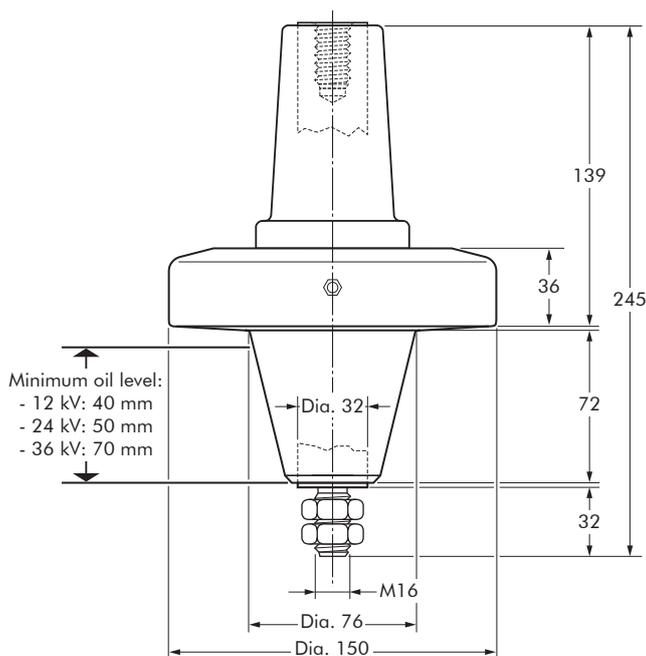
Each bushing is tested for AC withstand and partial discharge prior to leaving the factory.

Specifications and standards

The bolted type equipment bushings 400AR-5 are moulded epoxy insulated parts and meet the requirements of CENELEC EN 50180 and IEC 60137.

Ordering instructions

To order the equipment bushing, specify the type. The bushings can be supplied with an earth jumper (/J) or an earth plate (/GS). This earth connection must be specified when ordering. E.g. M400AR-5/GS.



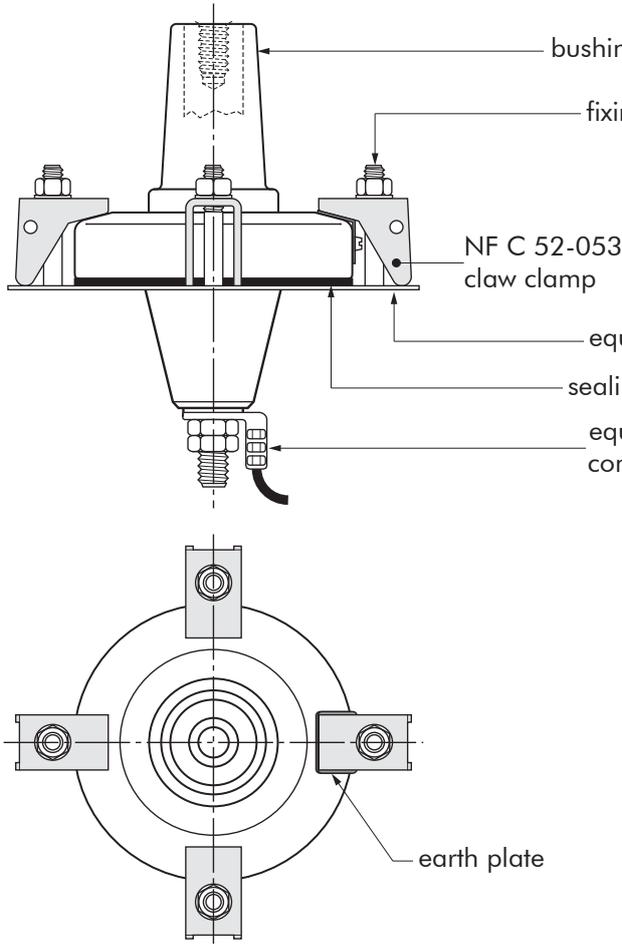
In mm.

| Equipment bushing type | Voltage U_m (kV) | Current I_r (A) |
|------------------------|--------------------|-------------------|
| 400AR-5 | 12 | 1250 |
| K400AR-5 | 24 | 1250 |
| M400AR-5 | 36 | 1250 |

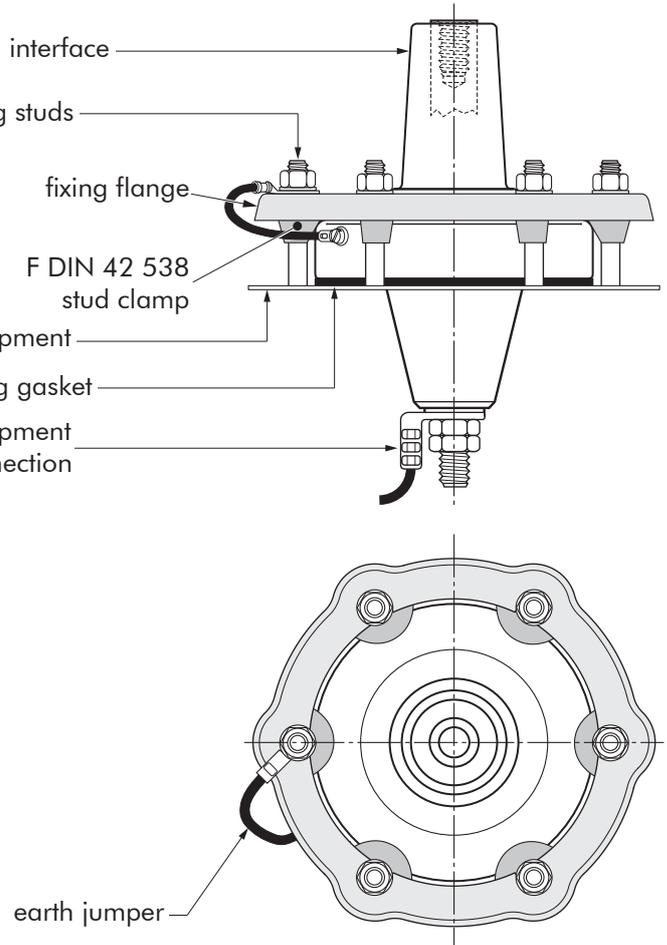
06/2014

FIXINGS FOR EQUIPMENT BUSHINGS

400AR-5/GS Bushing



400AR-5/J Bushing



Bushing clamping kit

To order the bushing clamping kit, according to NFC 52-053 standards, simply specify KBCNF-400.

Contents: - 4 x claw clamp
NF400
- 1 x sealing gasket.

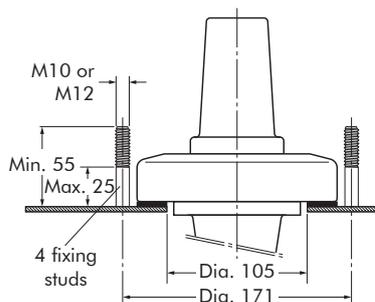
Bushing clamping kit

To order the bushing clamping kit with DIN style fixing flange, simply specify KBCDS-400.

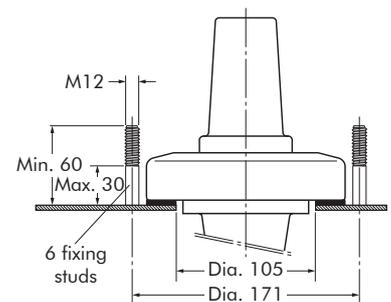
Contents: - 1 x fixing flange
DIN style
- 6 x stud clamp
F DIN 42 538
- 1 x sealing gasket.

Fixing dimensions standards NF C 52-053

French standards.



Fixing dimensions



In mm.

400AR-6 INTERFACE C1 EQUIPMENT BUSHING

Up to 36 kV - 630 A

Application

For use in equipment insulated with oil fluid, typically for transformers, switchgear, capacitors...

Technical characteristics

Each bushing is tested for AC withstand and partial discharge prior to leaving the factory.

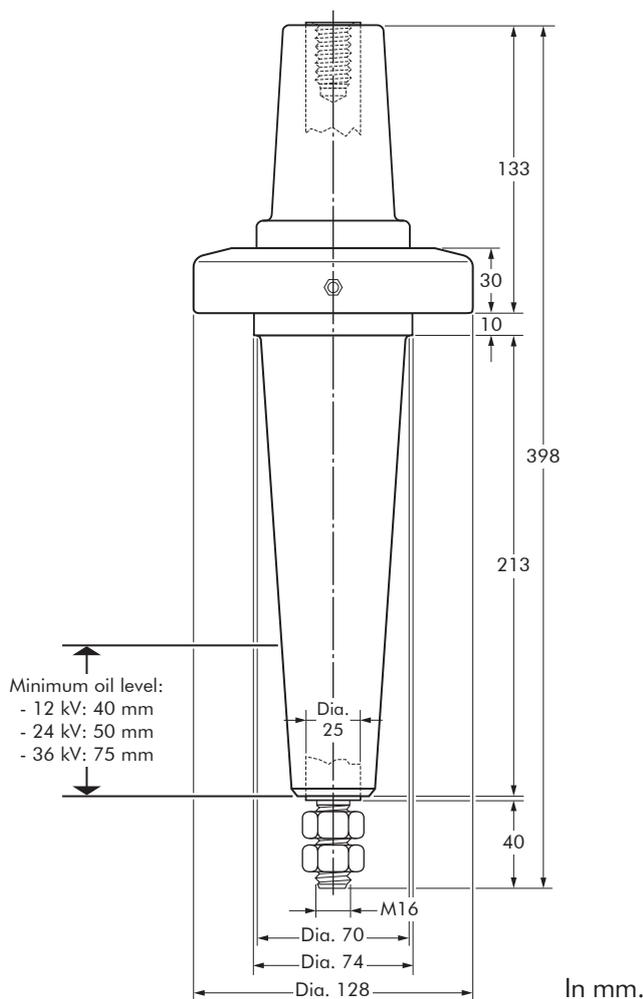
| | | |
|---------|--------|----|
| 6/10 | (12) | kV |
| 6.35/11 | (12) | kV |
| 8.7/15 | (17.5) | kV |
| 12/20 | (24) | kV |
| 12.7/22 | (24) | kV |
| 18/30 | (36) | kV |
| 19/33 | (36) | kV |

Specifications and standards

The bolted type equipment bushings 400AR-6 are moulded epoxy insulated parts and meet the requirements of CENELEC EN 50180 and IEC 60137.

Ordering instructions

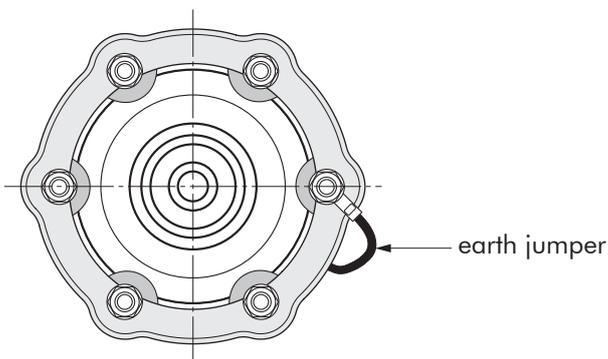
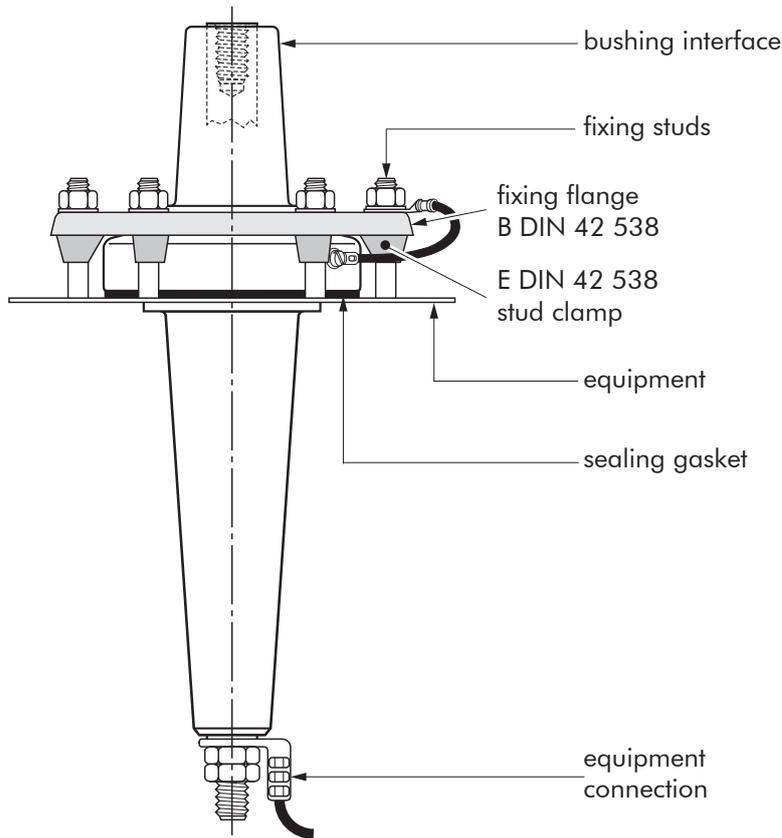
To order the equipment bushing, specify the type. The bushings can be supplied with an earth jumper (/J). This earth connection must be specified when ordering. E.g. M400AR-6/J.



| Equipment bushing type | Voltage U_m (kV) | Current I_r (A) |
|------------------------|--------------------|-------------------|
| 400AR-6 | 12 | 630 |
| K400AR-6 | 24 | 630 |
| M400AR-6 | 36 | 630 |

FIXINGS FOR EQUIPMENT BUSHINGS

400AR-6/J Bushing



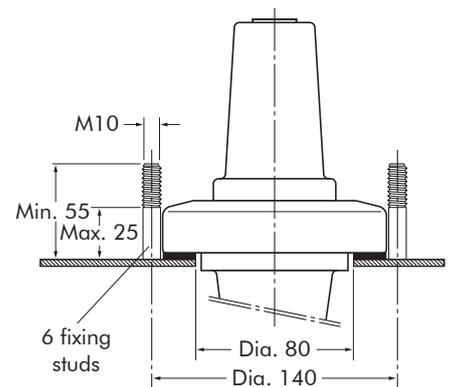
Bushing clamping kit

To order the bushing clamping kit, according to DIN 42 538 standards, simply specify KBCD-400B.

- Contents:
- 1 x fixing flange B
 - 6 x stud clamp E
 - 1 x sealing gasket.

Fixing dimensions standards DIN 42 538

German standards.



In mm.

400SFR-B INTERFACE C1 & C2 EQUIPMENT BUSHING

**Up to 36 kV
630 A & 1250 A**

6/10 (12) kV
6.35/11 (12) kV
8.7/15 (17.5) kV
12/20 (24) kV
12.7/22 (24) kV
18/30 (36) kV
19/33 (36) kV

Application

For use in equipment insulated with SF₆ gas.

Technical characteristics

Each bushing is tested for AC withstand and partial discharge prior to leaving the factory.

Design

The equipment bushing is a moulded epoxy insulated part with a connector interface in accordance with CENELEC EN 50180.

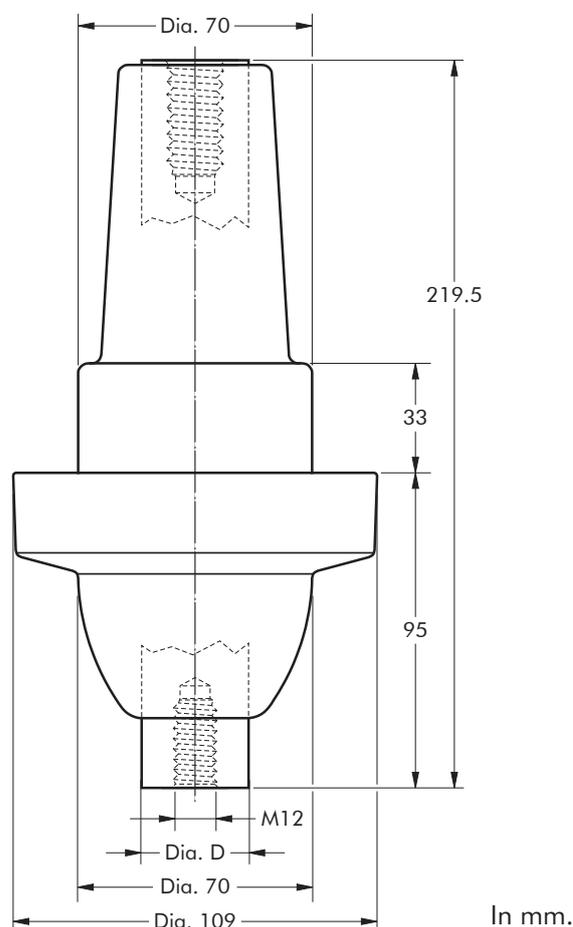
The 400SFR-B bushing has a shank outside this standard, adapted to use in SF₆ gas.

Specifications and standards

The bolted type equipment bushing 400SFR-B meets the requirements of CENELEC EN 50180 and IEC 60137.

Ordering instructions

To order the equipment bushing, simply specify the type.

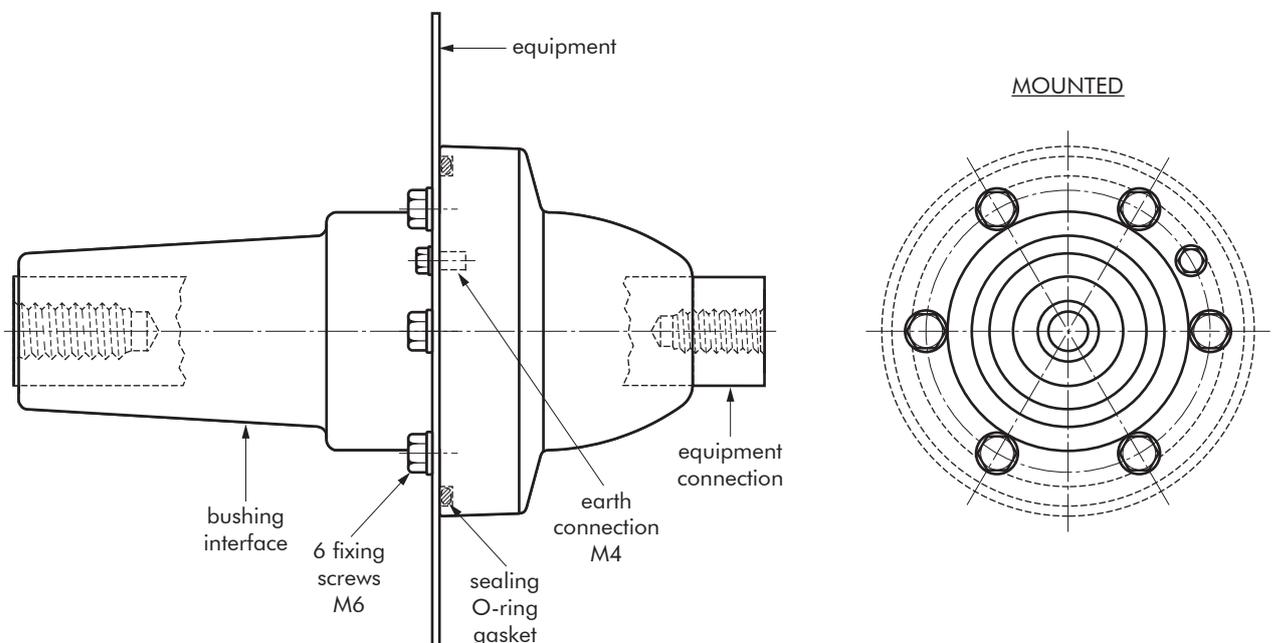
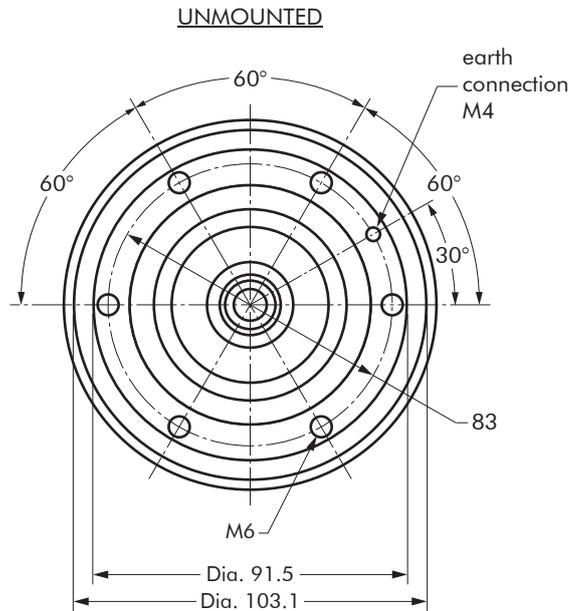


| Equipment bushing type | Voltage Um (kV) | Interface | Current Ir (A) | Dia. D (mm) |
|------------------------|-----------------|-----------|----------------|-------------|
| 400SFR-B | 12 | C1 | 630 | 25 |
| K400SFR-B | 24 | C1 | 630 | 25 |
| M400SFR-B | 36 | C1 | 630 | 25 |
| 400SFR-B 1250 A | 12 | C2 | 1250 | 32 |
| K400SFR-B 1250 A | 24 | C2 | 1250 | 32 |
| M400SFR-B 1250 A | 36 | C2 | 1250 | 32 |

06/2014

FIXINGS FOR EQUIPMENT BUSHINGS

I 400SFR-B Bushing for gas insulated switchgear



In mm.

400A-24B INTERFACE C1 IN-AIR BUSHING

Up to 24 kV - 630 A

Application

For use in equipment insulated with air, typically for dry type transformers, motors, switchgear, capacitors...

Technical characteristics

Each bushing is tested for AC withstand and partial discharge prior to leaving the factory.

6/10 (12) kV
6.35/11 (12) kV
8.7/15 (17.5) kV
12/20 (24) kV
12.7/22 (24) kV

Specifications and standards

The bolted type equipment bushings 400A-24B are moulded epoxy insulated parts and meet the requirements of CENELEC EN 50180, IEC 60071 and IEC 60137.

Ordering instructions

To order the equipment bushing, specify the type.

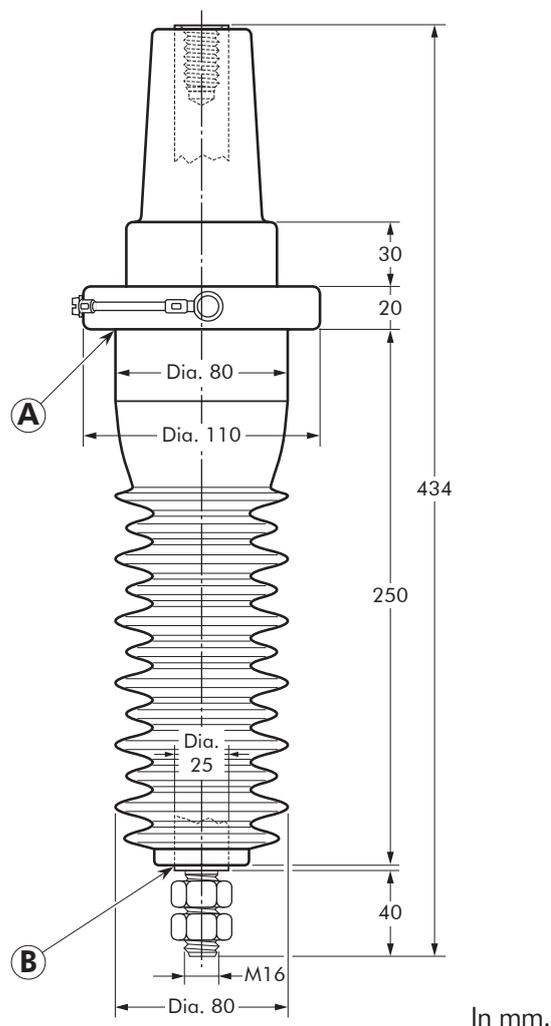
The bushings are supplied with an earth jumper.

To include the ring clamp, add:

- /B, if per British standards
- /D, if per German standards
- /F, if per French standards.

E.g. 400A-24B/D.

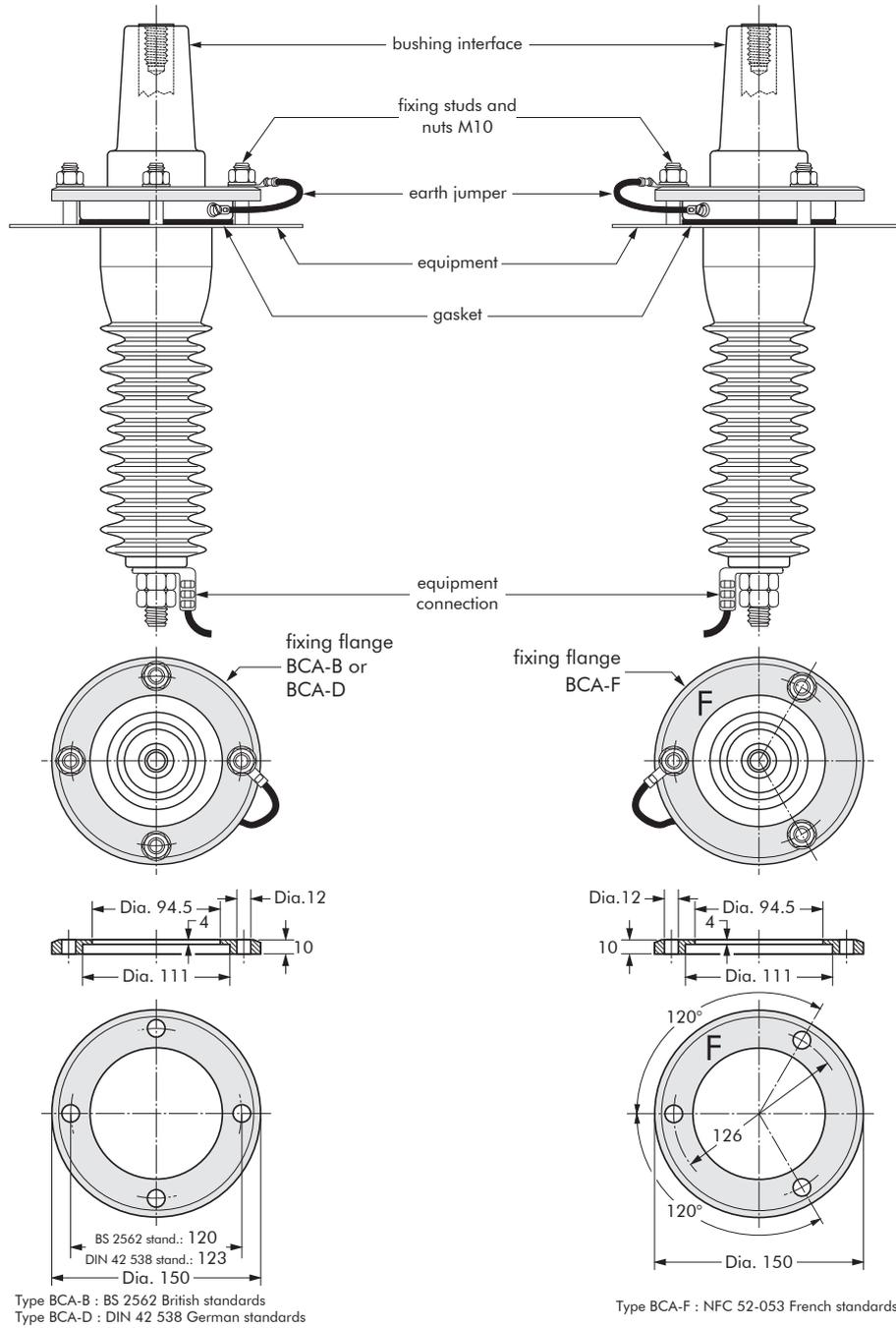
For use in potentially explosive atmospheres (for 12 kV max), order: -/ATEX.



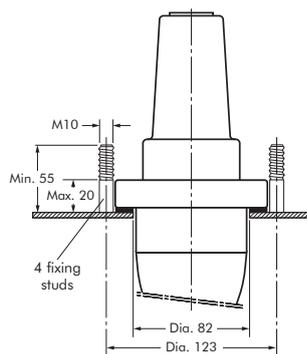
| Equipment bushing type | Voltage U_m (kV) | Current I_r (A) | Creepage distance A-B (mm) |
|------------------------|--------------------|-------------------|----------------------------|
| 400A-24B | 12 | 630 | 520 |
| 400A-24B | 24 | 630 | 520 |

FIXINGS FOR EQUIPMENT BUSHINGS

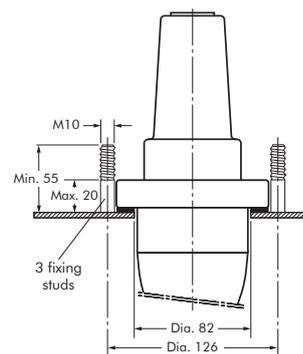
400A-24B In-air bushing



Fixing dimensions standards DIN 42 538 German standards.



Fixing dimensions standards NF C 52-053 French standards.



670AR-2 INTERFACE D2 EQUIPMENT BUSHING

Up to 24 kV - 1250 A

6/10 (12) kV
6,35/11 (12) kV
8,7/15 (17,5) kV
12/20 (24) kV
12.7/22 (24) kV

Application

For use in equipment insulated with oil fluid, typically for transformers, switchgear, capacitors...

Technical characteristics

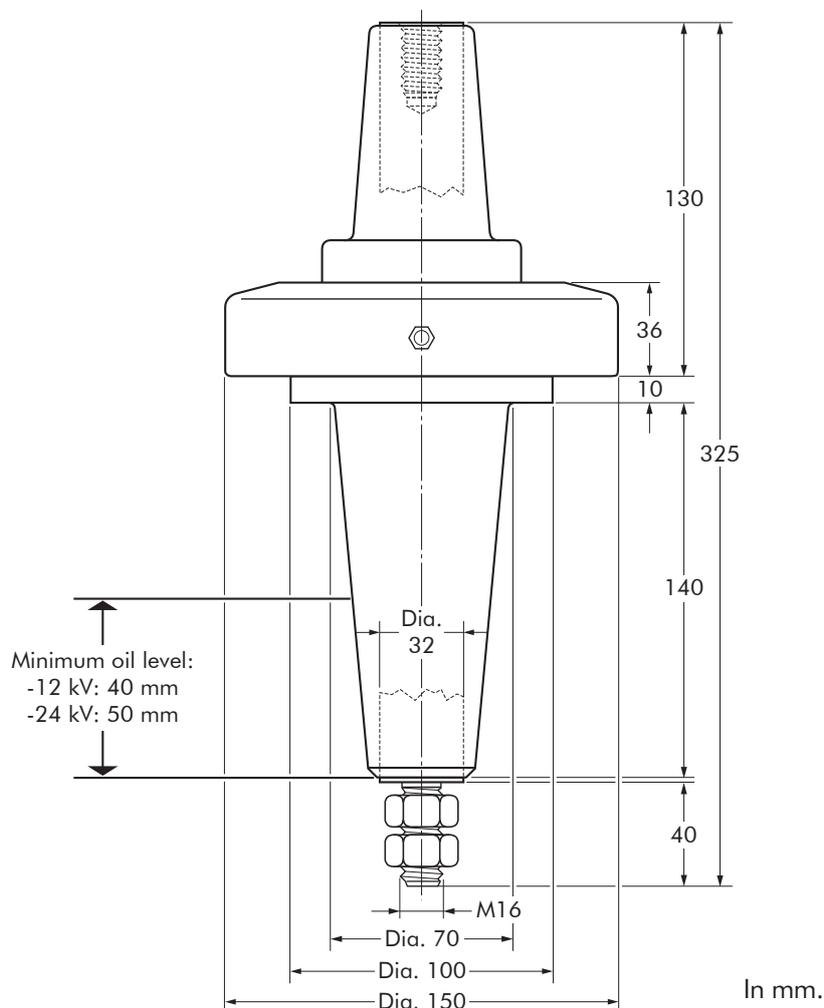
Each bushing is tested for AC withstand and partial discharge prior to leaving the factory.

Specifications and standards

The bolted type equipment bushings 670AR-2 are moulded epoxy insulated parts and meet the requirements of CENELEC EN 50180 and IEC 60137.

Ordering instructions

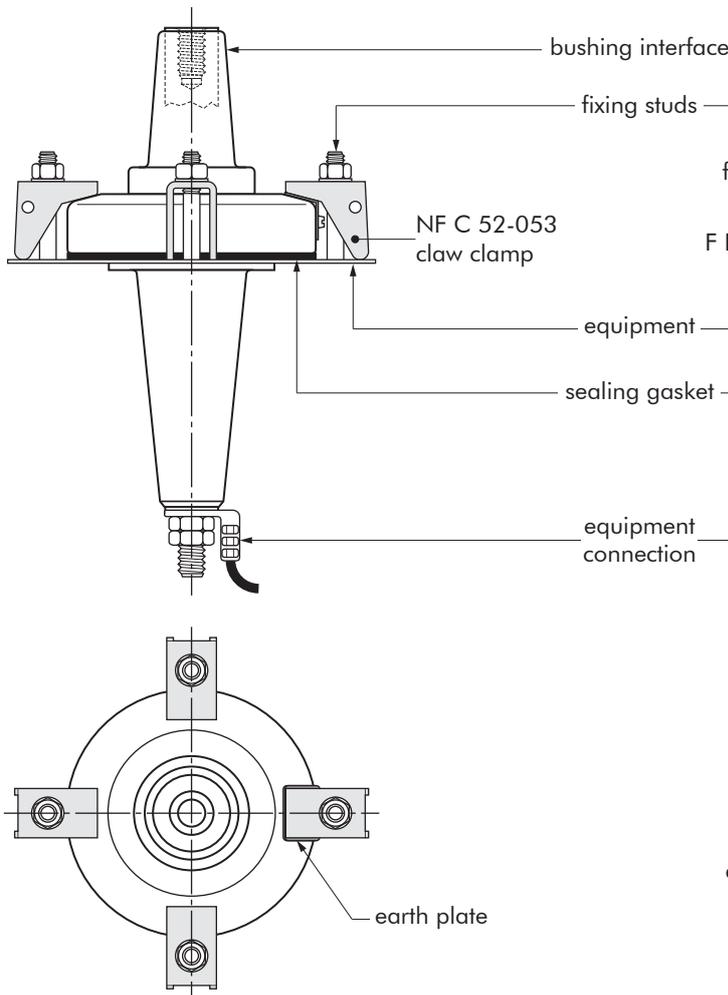
To order the equipment bushing, specify the type. The bushings can be supplied with an earth jumper (/J) or an earth plate (/GS). This earth connection must be specified when ordering. E.g. K670AR-2/GS.



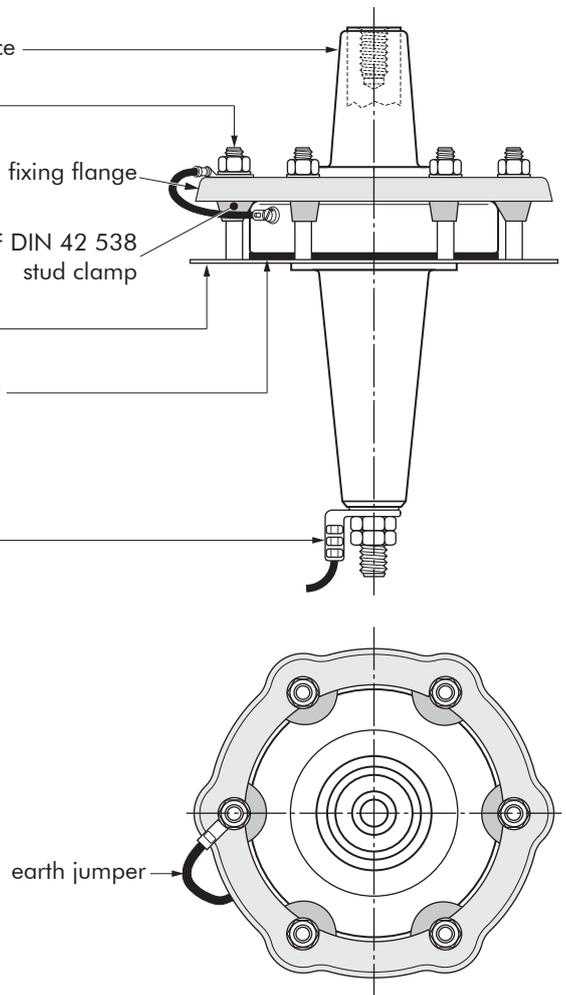
| Equipment bushing type | Voltage U_m (kV) | Current I_r (A) |
|------------------------|--------------------|-------------------|
| 670AR-2 | 12 | 1250 |
| K670AR-2 | 24 | 1250 |

FIXINGS FOR EQUIPMENT BUSHINGS

670AR-2/GS Bushing



670AR-2/J Bushing



Bushing clamping kit

To order the bushing clamping kit, according to NFC 52-053 standards, simply specify KBCNF-400.

Contents: - 4 x claw clamp NF400
- 1 x sealing gasket.

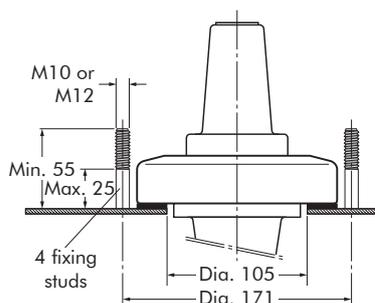
Bushing clamping kit

To order the bushing clamping kit with DIN style fixing flange, simply specify KBCDS-400.

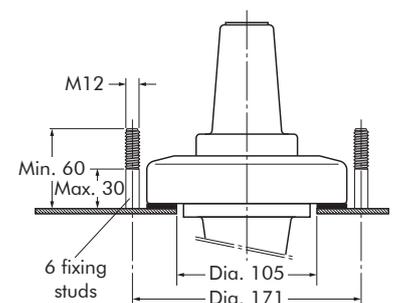
Contents: - 1 x fixing flange DIN style
- 6 x stud clamp F DIN 42 538
- 1 x sealing gasket.

Fixing dimensions standards NF C 52-053

French standards.



Fixing dimensions



In mm.

900AR-1 / 900AR-2 900AR-3 / 900AR-4

INTERFACE F1, F2 & F3 EQUIPMENT BUSHING

Application

For use in equipment, typically for transformers, switchgear, capacitors...

Technical characteristics

Each bushing is tested for AC withstand and partial discharge prior to leaving the factory.

**Up to 52 kV
Up to 2500 A**

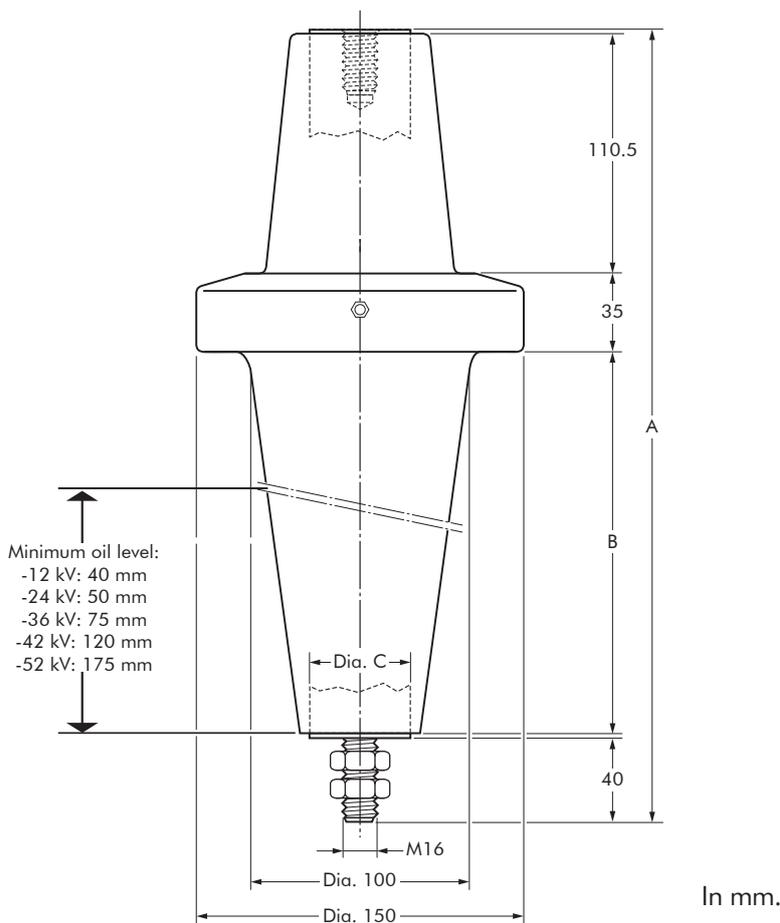
| |
|------------------|
| 6/10 (12) kV |
| 6.35/11 (12) kV |
| 8.7/15 (17.5) kV |
| 12/20 (24) kV |
| 12.7/22 (24) kV |
| 18/30 (36) kV |
| 19/33 (36) kV |
| 20.8/36 (42) kV |
| 26/45 (52) kV |

Specifications and standards

The bolted type equipment bushings 900AR-X are moulded epoxy insulated parts and meet the requirements of CENELEC EN 50180 and IEC 60137.

Ordering instructions

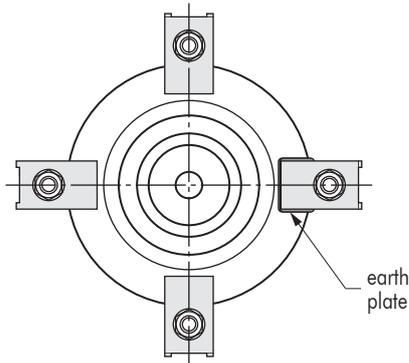
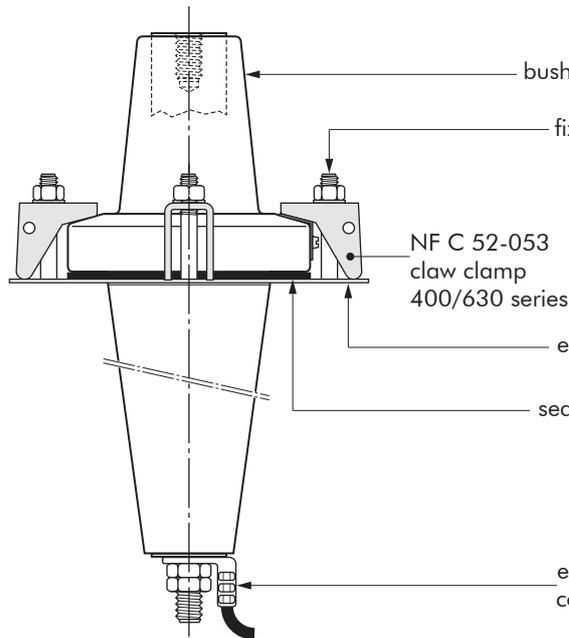
To order the equipment bushing, specify the type. Add a 'K' for use up to 24 kV, add an 'M' for use up to 36 kV, add a 'P' for use up to 42 kV, add a 'Q' for use up to 52 kV. The bushings can be supplied with an earth jumper (/J) or an earth plate (/GS). This earth connection must be specified when ordering.
E.g. 900AR-4/GS.



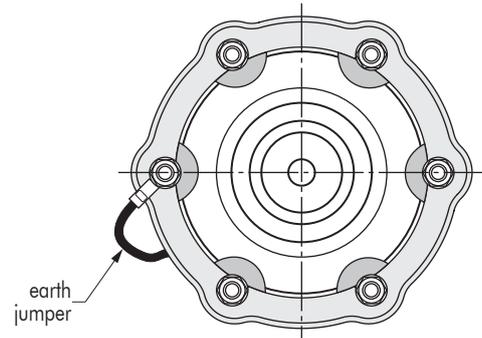
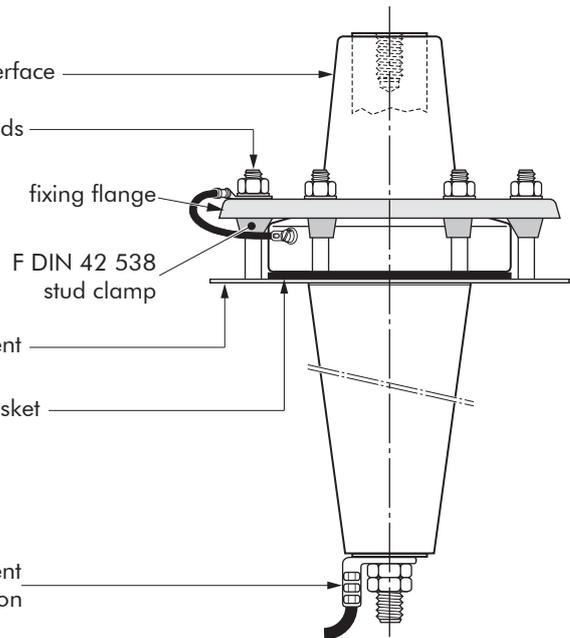
| Equipment bushing type | Interface type | Voltage Um (kV) | Current Ir (A) | Dimensions (mm) | | |
|------------------------|----------------|-----------------|----------------|-----------------|-----|--------|
| | | | | A | B | Dia. C |
| 900AR-1 | F3 | 52 | 1250 | 364 | 175 | 32 |
| 900AR-2 | F2 | 52 | 630 | 364 | 175 | 25 |
| 900AR-3 | F1 | 36 | 2500 | 364 | 175 | 50 |
| 900AR-4 | F1 | 36 | 2500 | 259 | 70 | 50 |

FIXINGS FOR EQUIPMENT BUSHINGS

900AR-X/GS Bushing



900AR-X/J Bushing



Bushing clamping kit

To order the bushing clamping kit, according to NFC 52-053 standards, simply specify KBCNF-400.

Contents: - 4 x claw clamp NF400
- 1 x sealing gasket.

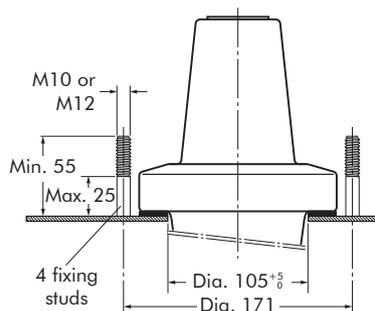
Bushing clamping kit

To order the bushing clamping kit with DIN style fixing flange, simply specify KBCDS-400.

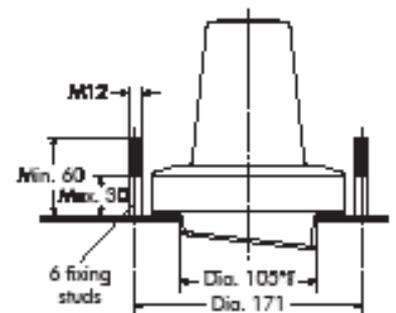
Contents: - 1 x fixing flange DIN style
- 6 x stud clamp F DIN 42 538
- 1 x sealing gasket.

Fixing dimensions standards NF C 52-053

French standards.



Fixing dimensions



In mm.

Additional catalogue information on power cable accessories
is available by contacting us at the address below:

┌ Distributed by:

└

Euromold
a Nexans company

Nexans Network Solutions N.V. - Div. Euromold
Zuid III, Industrielaan 12, B-9320 Erembodegem
Tel.: +32 (0)53 85 02 11 • www.euromold.be • sales.euromold@nexans.com

Catalogue also available on CD-ROM, website and Mobile Apps

