

# EUROMOLD®

## MEDIUM VOLTAGE EQUIPMENT BUSHINGS

CATALOGUE 2022





NEXANS NETWORK SOLUTIONS DIV. EUROMOLD

# COMPANY PRESENTATION



## EUROMOLD

Nexans is the leading European specialised designer, manufacturer and distributor of prefabricated cable accessories for medium voltage energy distribution. Under its tradename Euromold, it 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.

Nexans division Euromold is also the manufacturer of electrical components for the high voltage accessories of the Nexans group.

## ISO 9001 Certificate

Since 1992, Nexans' commitment to quality is demonstrated by its ISO 9001 certification. We are also certified in the important sectors of environmental protection and occupational safety.

## 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, Nexans' 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

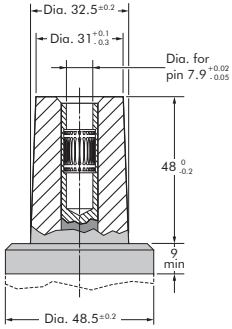
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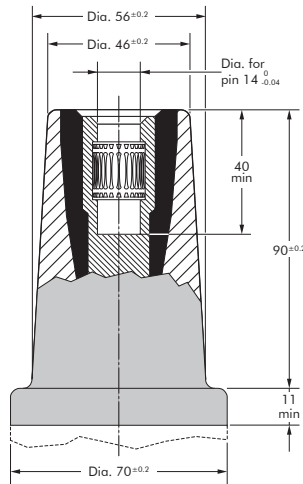
# DIMENSIONS & RATINGS OF EQUIPMENT BUSHINGS

## DIMENSIONS

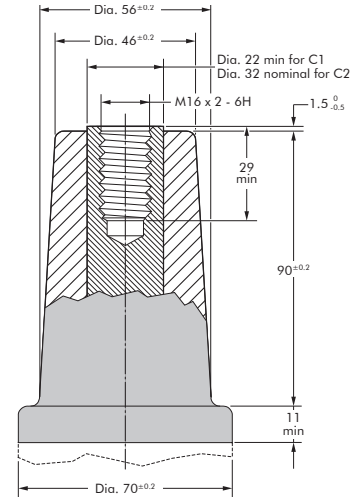
These diagrams show the dimensions of the interfaces of equipment bushings according to CENELEC standards EN 50180:2010 and EN 50181:2010.



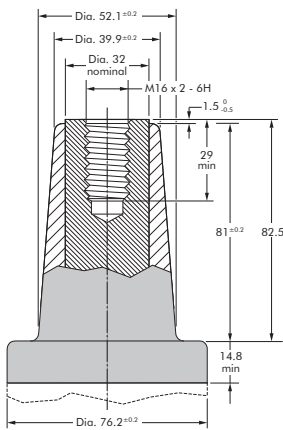
Interface A1



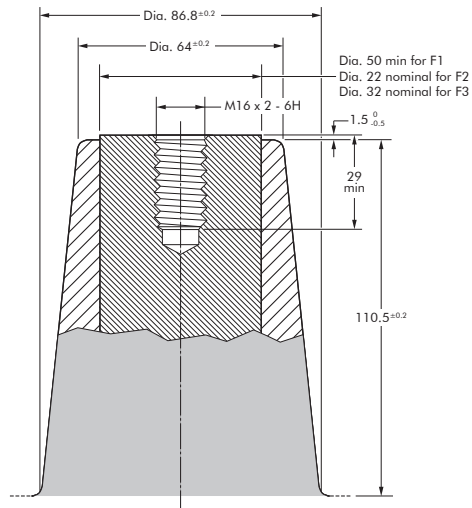
Interface B1 & B2



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

### 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.

### 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

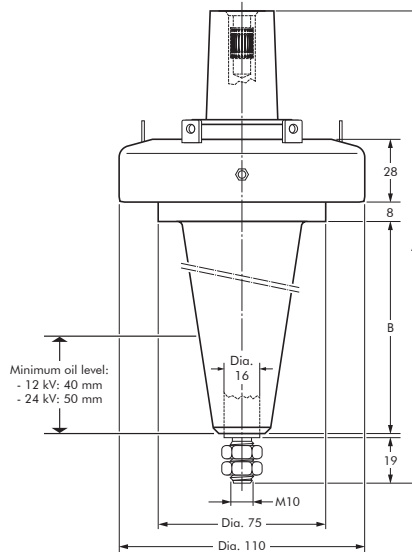
To order the equipment bushing, specify the type.  
The bushings are supplied with an earth jumper (/J) or an earth plate (/GS). This earth connection must be specified when ordering.  
E.g. K180AR-1/J.

### SPECIFICATIONS AND STANDARDS

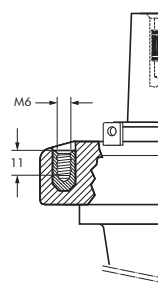
The plug-in type equipment bushings 180AR-... meet the requirements of CENELEC EN 50180 and IEC 60137.



Type 180AR-1 /-2 /-3



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



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

Up to 24 kV - 250 A

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In mm.

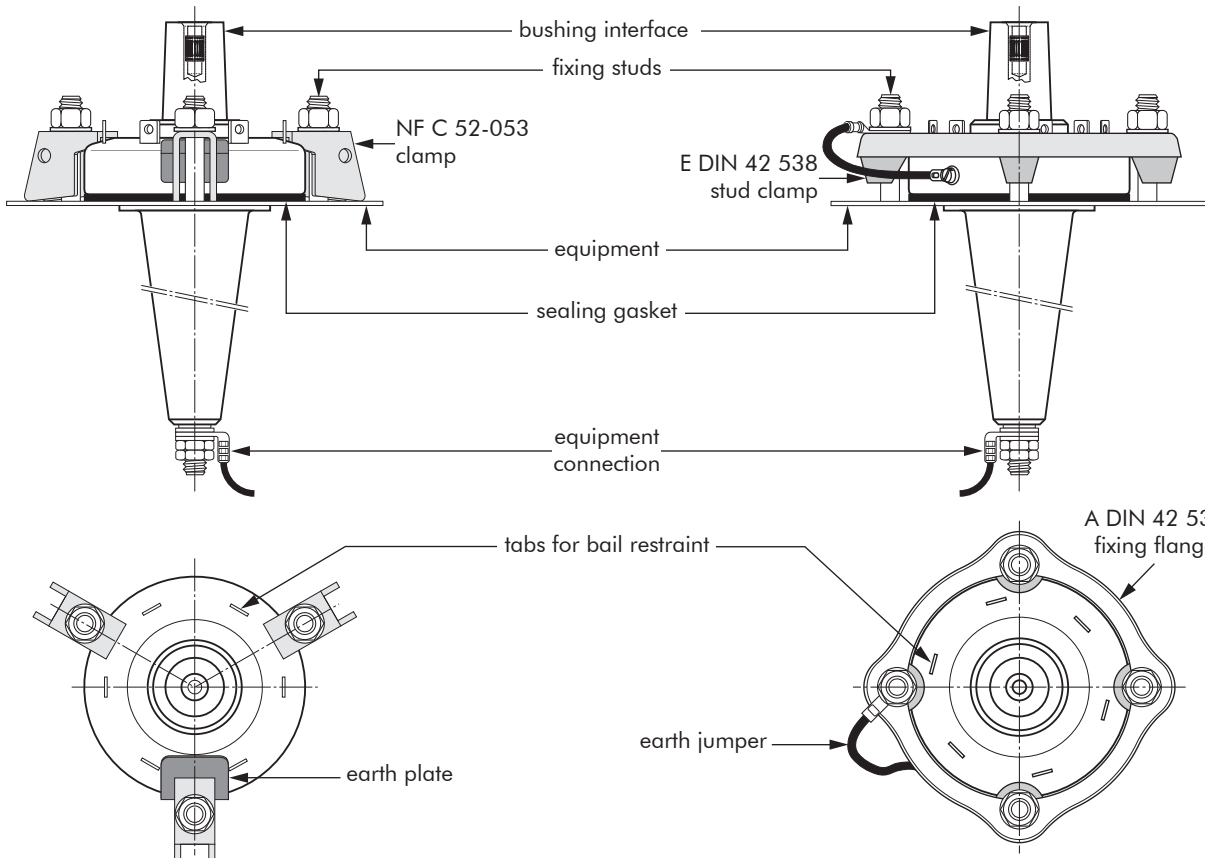
Equipment bushing type	Voltage Um (kV)	Current Ir (A)	Dimensions (mm)	
			A	B
180AR-1	12	250	222	106
K180AR-1	24	250	222	106
180AR-2	12	250	284	168
K180AR-2	24	250	284	168
180AR-3	12	250	171	55
K180AR-3	24	250	171	55

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# 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

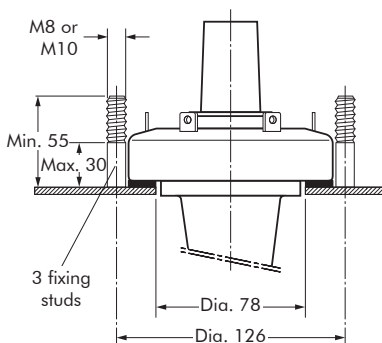
To order the bushing clamping kit, according to NF C 52-053 standards, simply specify: KBC – NFC 52-053 /200 SERIES.  
Contents: - 3 x claw clamp NF  
- 1 x sealing gasket.

## BUSHING CLAMPING KIT

To order the bushing clamping kit, according to DIN 42 538 standards, simply specify: KBC - RING CLAMP 1.  
Contents: - 1 x fixing flange A  
- 4 x stud clamp E  
- 1 x sealing gasket.

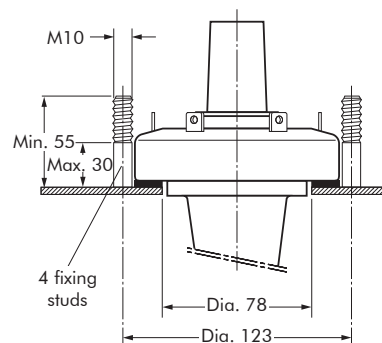
## FIXING DIMENSIONS STANDARDS NF C 52-053

French standards.



## FIXING DIMENSIONS STANDARDS DIN 42 538

German standards.



In mm.

# 180A-24P-O

## INTERFACE A1 IN-AIR BUSHING

### 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.

### 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

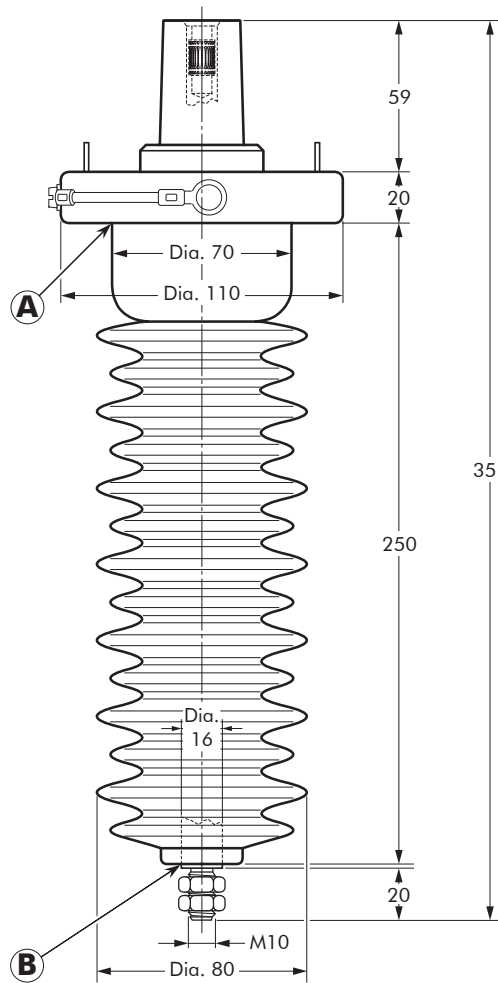
To order the equipment bushing, specify the type.

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.



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

Up to 24 kV - 250 A

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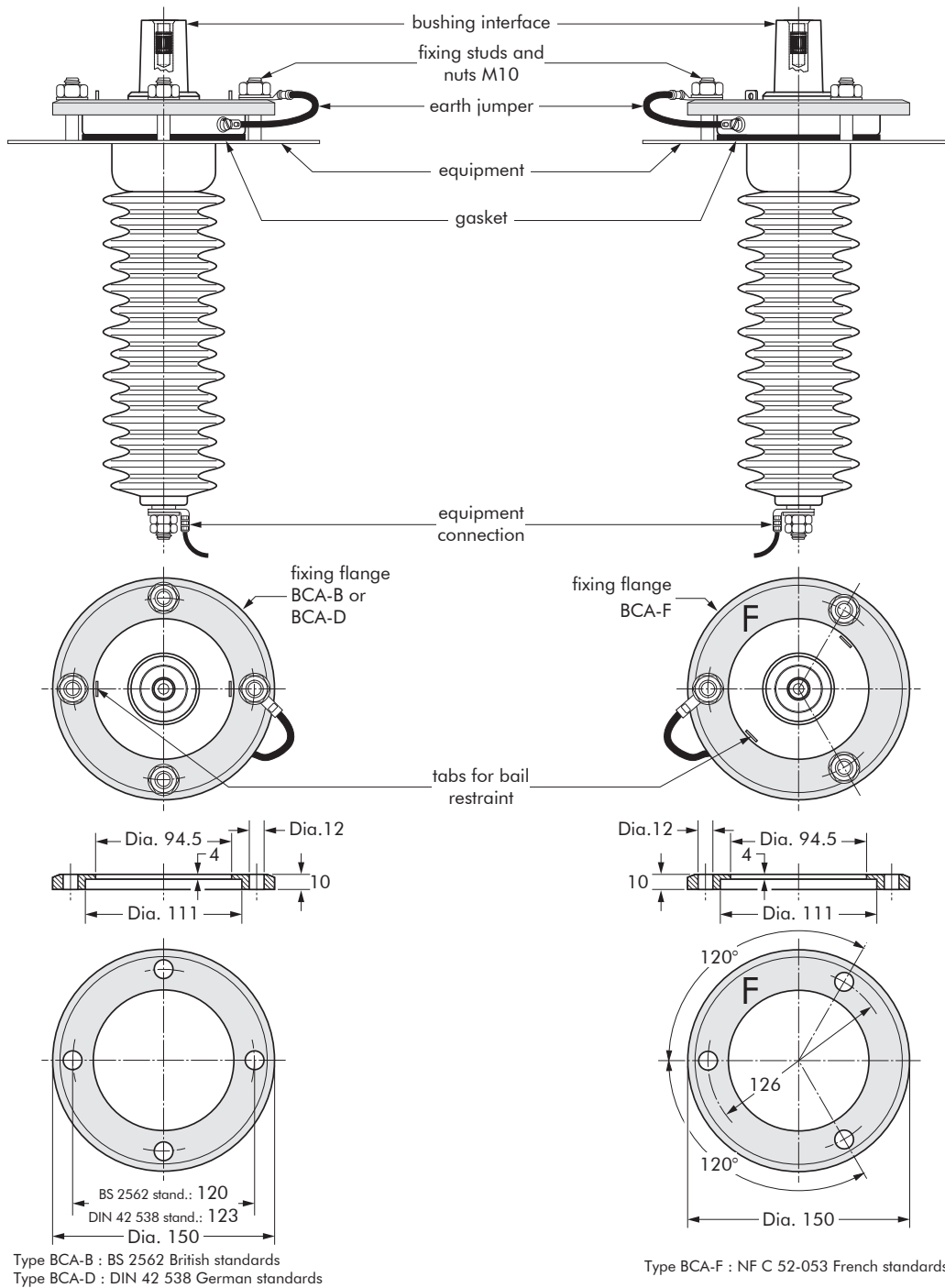
Equipment bushing type	Voltage $U_m$ (kV)	Current $I_r$ (A)	Creepage distance A-B (mm)
180A-24P-O	12	250	630
180A-24P-O	24	250	630

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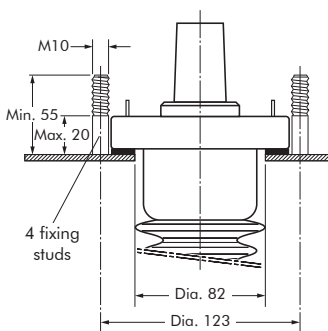
# FIXINGS FOR EQUIPMENT BUSHINGS

## 180A-24P-O IN-AIR BUSHING



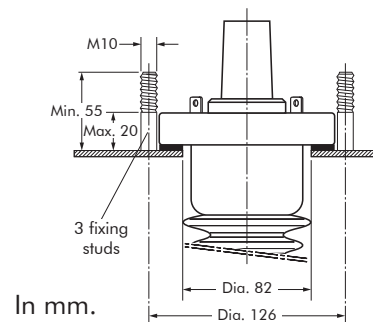
### FIXING DIMENSIONS STANDARDS DIN 42 538

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.



### SPECIFICATIONS AND STANDARDS

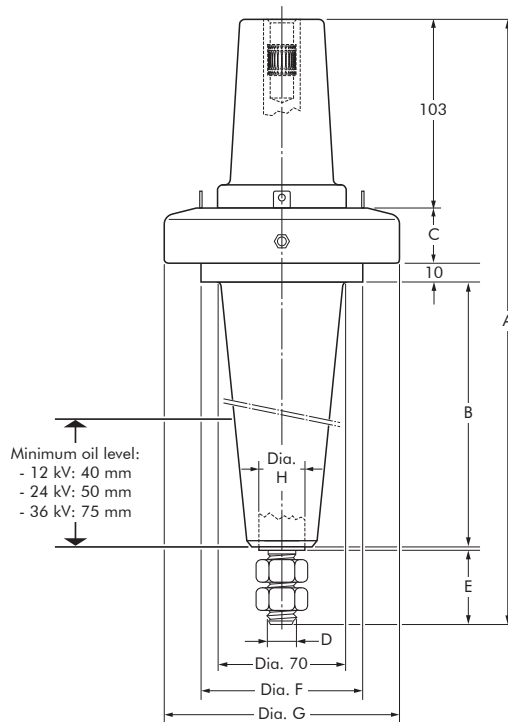
The plug-in type equipment bushings are moulded epoxy insulated parts and meet the requirements of IEC 60137. The (K)(M)400T1 also meets CENELEC EN 50180 .

### 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.



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

Up to 36 kV - 400 A

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In mm.

Equip-ment 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

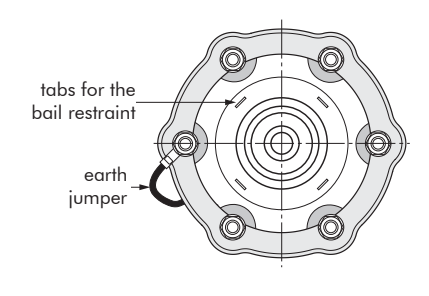
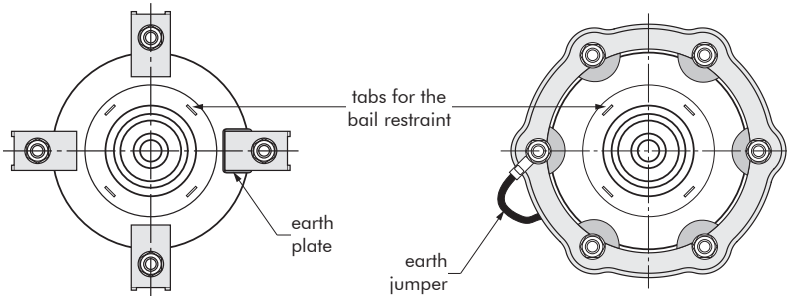
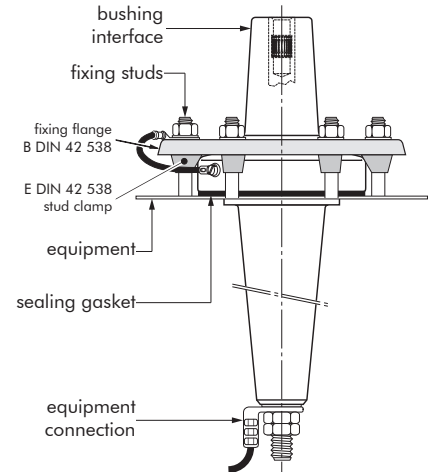
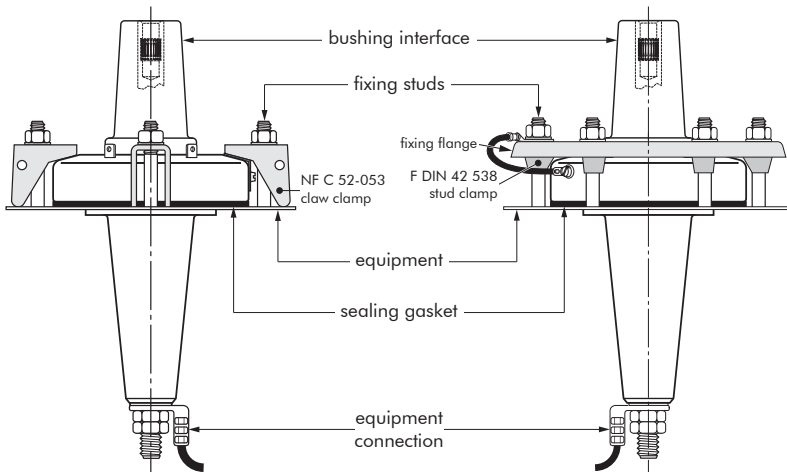
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# FIXINGS FOR EQUIPMENT BUSHINGS

## 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 NF C 52-053 standards, simply specify: KBC-NFC 52-053 /400 SERIES (for bushing type 400AR-2).  
Contents: - 4 x claw clamp NF  
- 1 x sealing gasket.

### BUSHING CLAMPING KIT

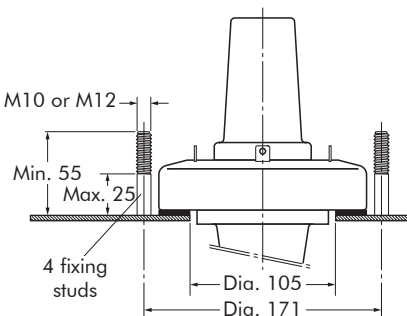
To order the bushing clamping kit, simply specify: KBC-RING CLAMP 3.  
Contents: - 1 x fixing flange  
Ø150 mm  
- 6 x stud clamp F  
- 1 x sealing gasket.

### BUSHING CLAMPING KIT

To order the bushing clamping kit, according to DIN 42 538 standards, simply specify: KBC - RING CLAMP 2.  
Contents: - 1 x fixing flange B  
- 6 x stud clamp E  
- 1 x sealing gasket.

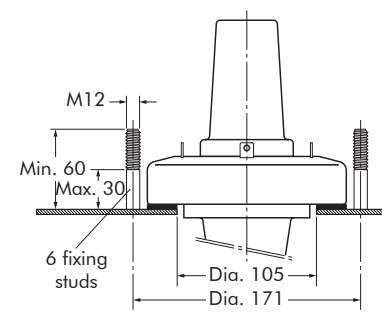
### FIXING DIMENSIONS STANDARDS NF C 52-053

French standards.



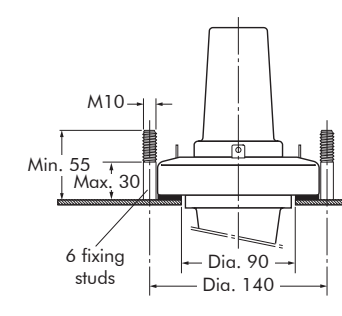
### FIXING DIMENSIONS

French standards.



### FIXING DIMENSIONS STANDARDS DIN 42 538

German standards.



# 400AR-8

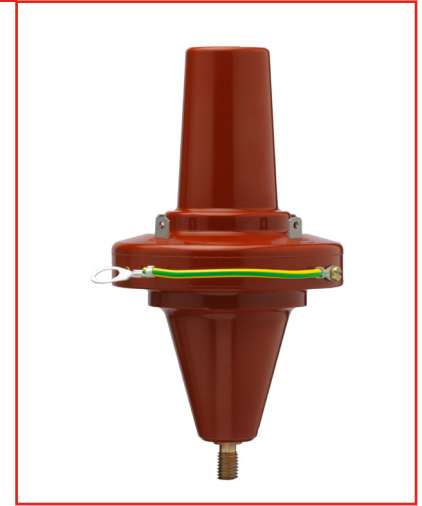
## INTERFACE B1 EQUIPMENT BUSHING

### APPLICATION

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

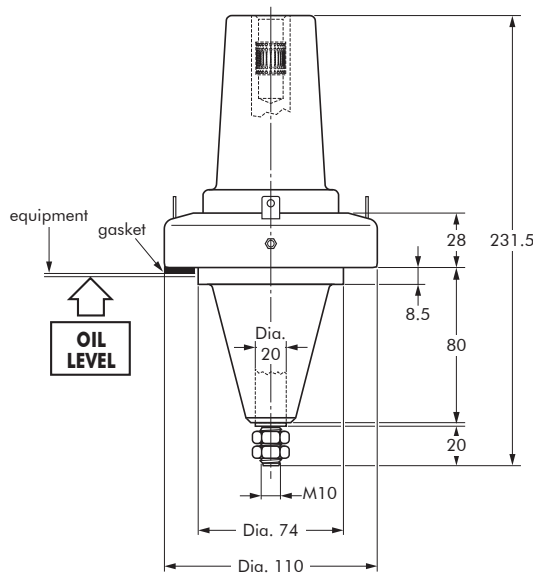
### TECHNICAL CHARACTERISTICS

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



### SPECIFICATIONS AND STANDARDS

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



- 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

Up to 36 kV - 250 A

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### ORDERING INSTRUCTIONS

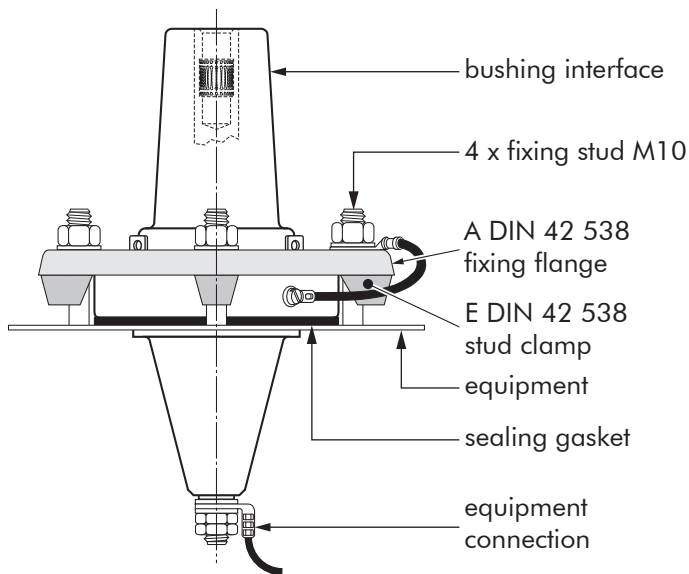
To order the equipment bushing, specify the type.  
The bushings can be supplied with an earth jumper (/J).  
E.g. M400AR-8/J.

In mm.

Equipment bushing type	Voltage Um (kV)	Current Ir (A)
400AR-8	12	250
K400AR-8	24	250
M400AR-8	36	250

# FIXINGS FOR EQUIPMENT BUSHINGS

## 400AR-8/J BUSHING



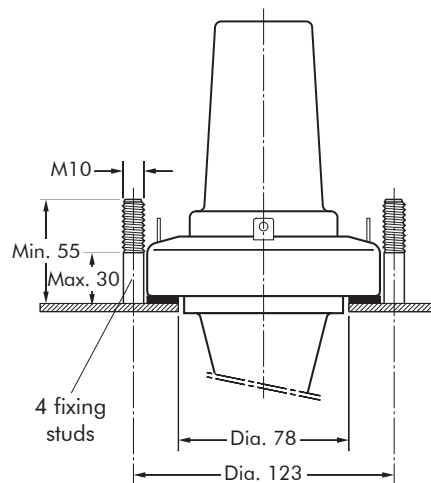
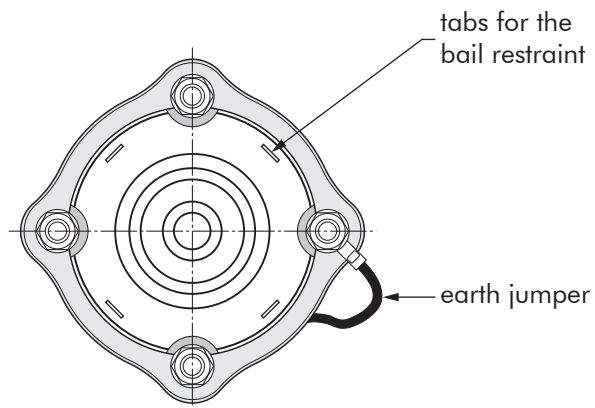
## BUSHING CLAMPING KIT

To order the bushing clamping kit, according to DIN 42 538 standards, simply specify: KBC - RING CLAMP 1.

- 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

### APPLICATION

For use in equipment insulated with SF<sub>6</sub> gas.

### TECHNICAL CHARACTERISTICS

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



### DESIGN

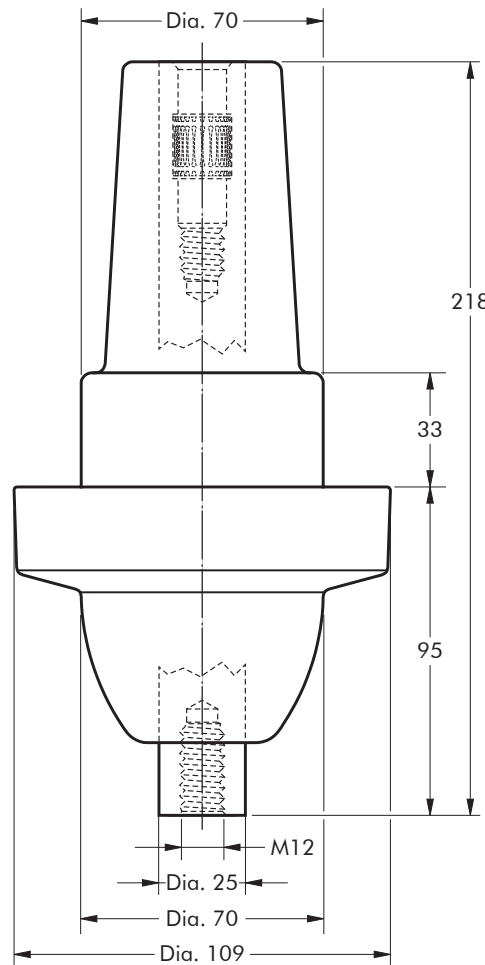
The equipment bushing is a moulded epoxy insulated part with a connector interface in accordance with CENELEC EN 50181. The 400SFR-P bushing has a shank outside this standard, adapted for use in SF<sub>6</sub> gas.

### 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.

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

Up to 24 kV - 400 A

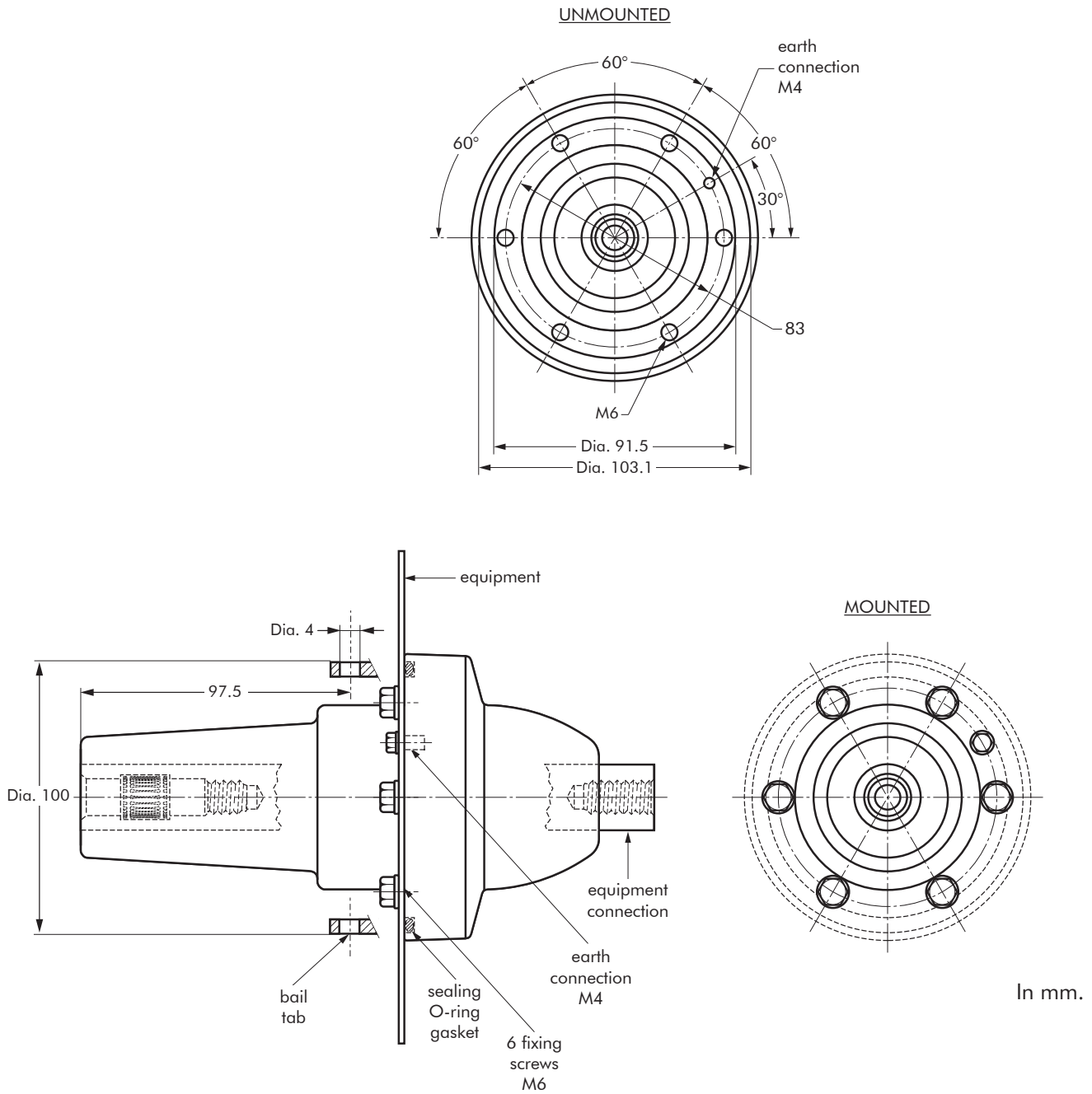
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Equipment bushing type	Voltage U <sub>m</sub> (kV)	Current I <sub>r</sub> (A)
400SFR-P	12	400
K400SFR-P	24	400

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# FIXINGS FOR EQUIPMENT BUSHINGS

## 400SFR-P BUSHING FOR GAS INSULATED SWITCHGEAR



# 400AR-3

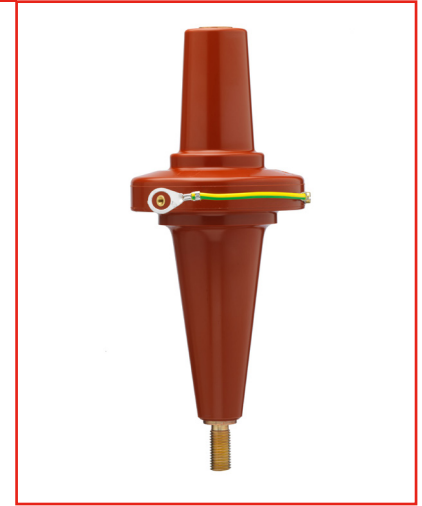
## INTERFACE C1 EQUIPMENT BUSHING

### 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

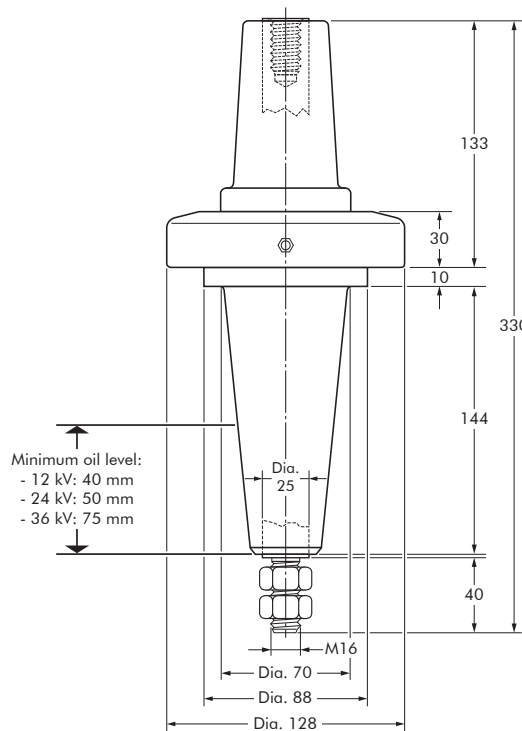
The bolted type equipment bushings 400AR-3 are moulded epoxy insulated parts and meet the requirements of CENELEC EN 50180 and IEC 60137.

### 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.



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

Up to 36kV - 630A

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In mm.

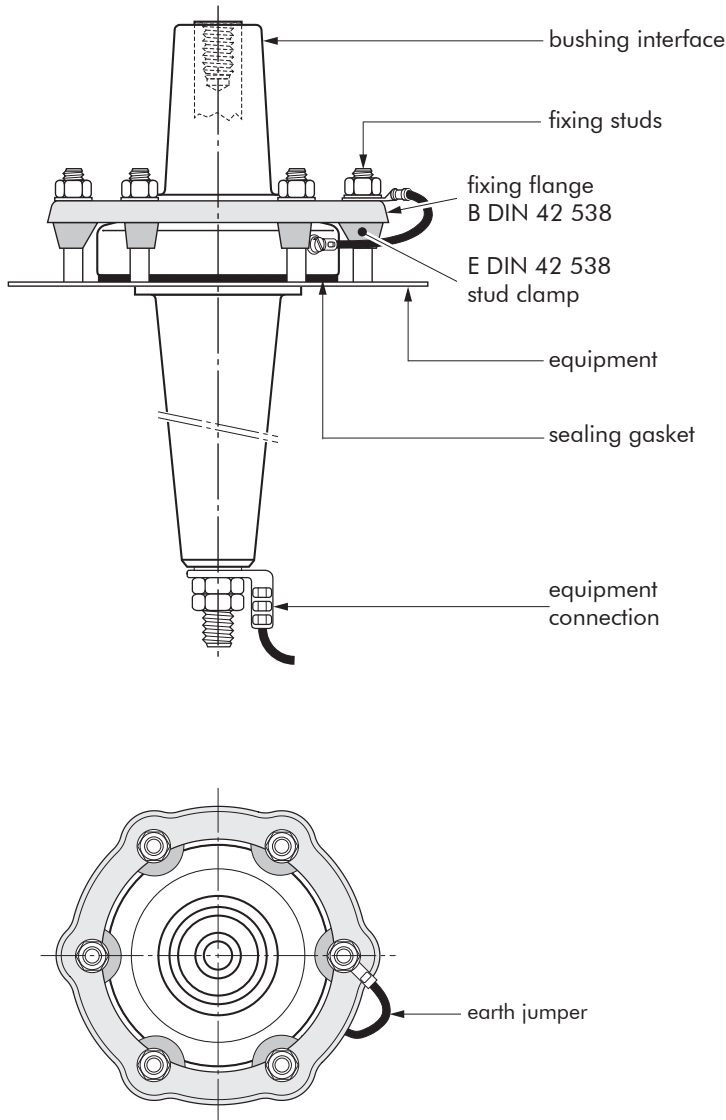
Equipment bushing type	Voltage Um (kV)	Current Ir (A)
400AR-3	12	630
K400AR-3	24	630
M400AR-3	36	630

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# FIXINGS FOR EQUIPMENT BUSHINGS

## 400AR-3/J BUSHING



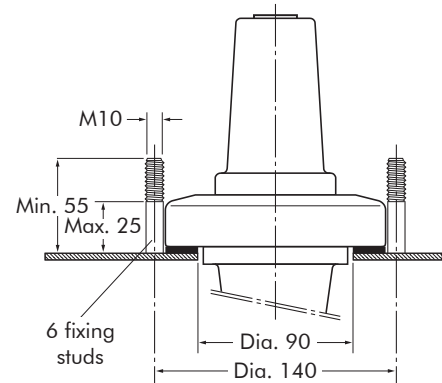
## BUSHING CLAMPING KIT

To order the bushing clamping kit, according to DIN 42 538 standards, simply specify: KBC - RING CLAMP 2.

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

### APPLICATION

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

### TECHNICAL CHARACTERISTICS

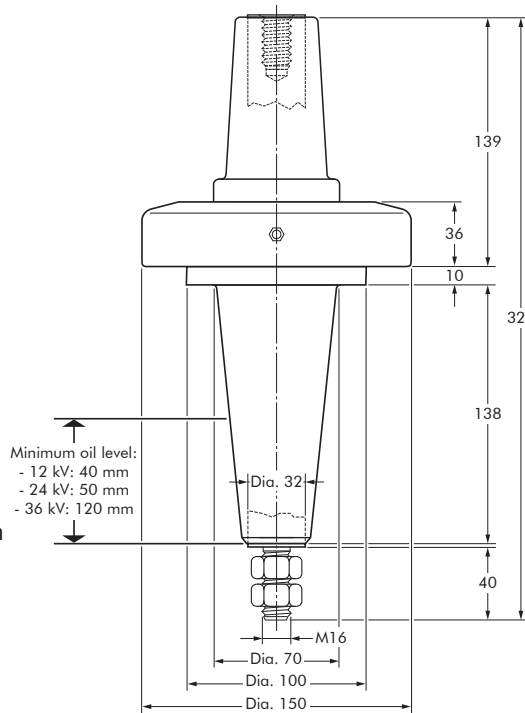
Each bushing is tested for AC withstand and partial discharge prior to leaving the factory.

### SPECIFICATIONS AND STANDARDS

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

### 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.



- 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

Up to 36kV - 1250A

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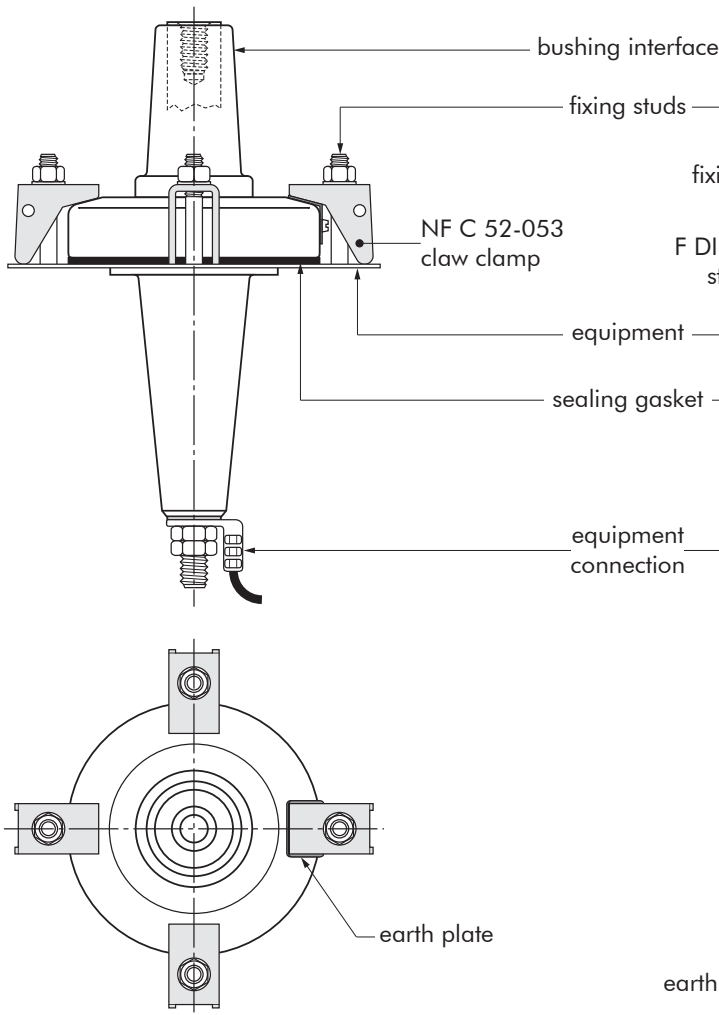
In mm.

Equipment bushing type	Voltage Um (kV)	Current Ir (A)
400AR-4	12	1250
K400AR-4	24	1250
M400AR-4	36	1250

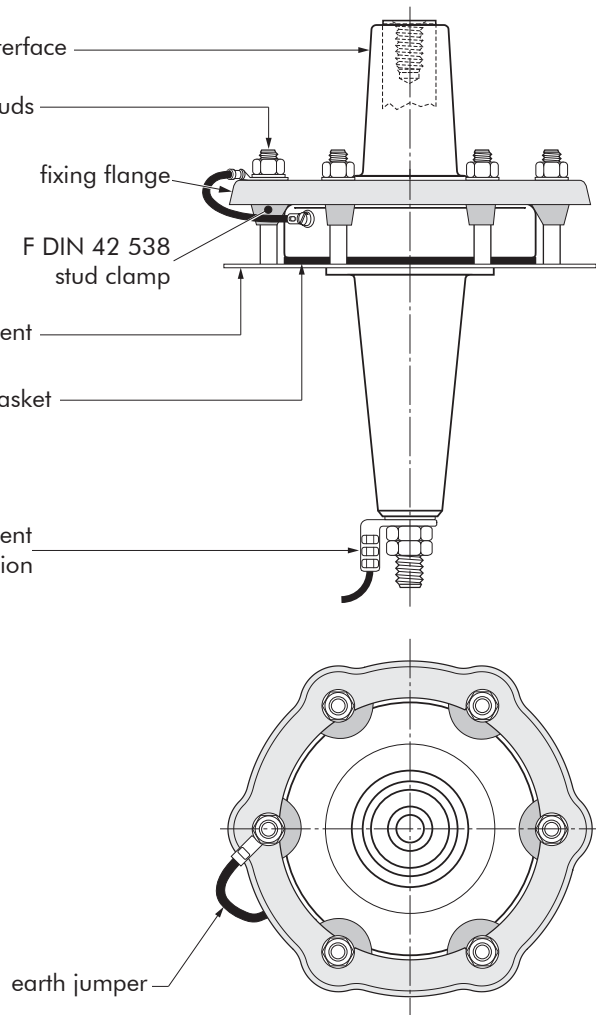
02/2022

# 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: KBC - NFC 52-053 /400 SERIES.

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

### BUSHING CLAMPING KIT

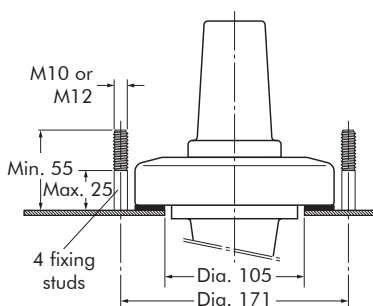
To order the bushing clamping kit with DIN style fixing flange, simply specify: KBC - RING CLAMP 3.

Contents:

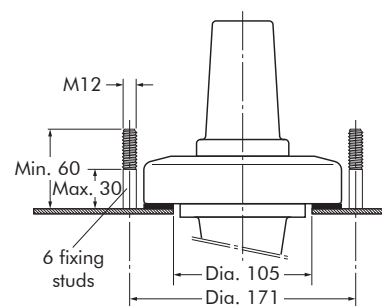
- 1 x fixing flange Ø150 mm  
- 6 x stud clamp F DIN 42 538  
- 1 x sealing gasket.

### FIXING DIMENSIONS STANDARDS NFC C 52-053

French standards.



### FIXING DIMENSIONS



In mm.

# 400AR-4BC

## INTERFACE C2 EQUIPMENT BUSHING

### APPLICATION

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

### 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-4BC are moulded epoxy insulated parts and meet the requirements of CENELEC EN 50180.

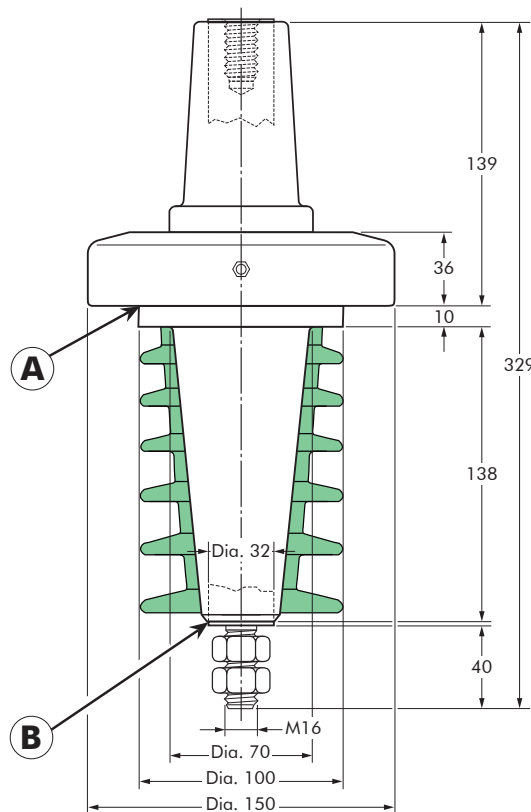
A non-tracking insulating rubber boot is installed over the bushing shank.

### 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. K400AR-4BC/GS.

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



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

Up to 24kV - 1250A

**EUROMOLD®**

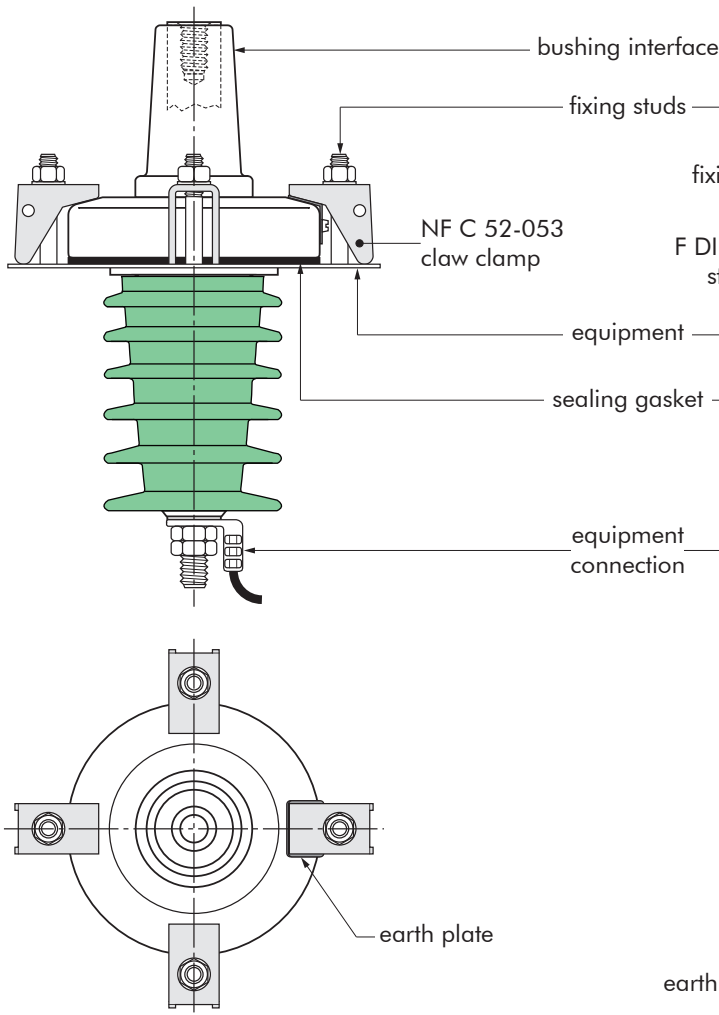
In mm.

Equipment bushing type	Voltage $U_m$ (kV)	Current $I_r$ (A)	Creepage length A-B (mm)
400AR-4BC	12	1250	315
K400AR-4BC	24	1250	315

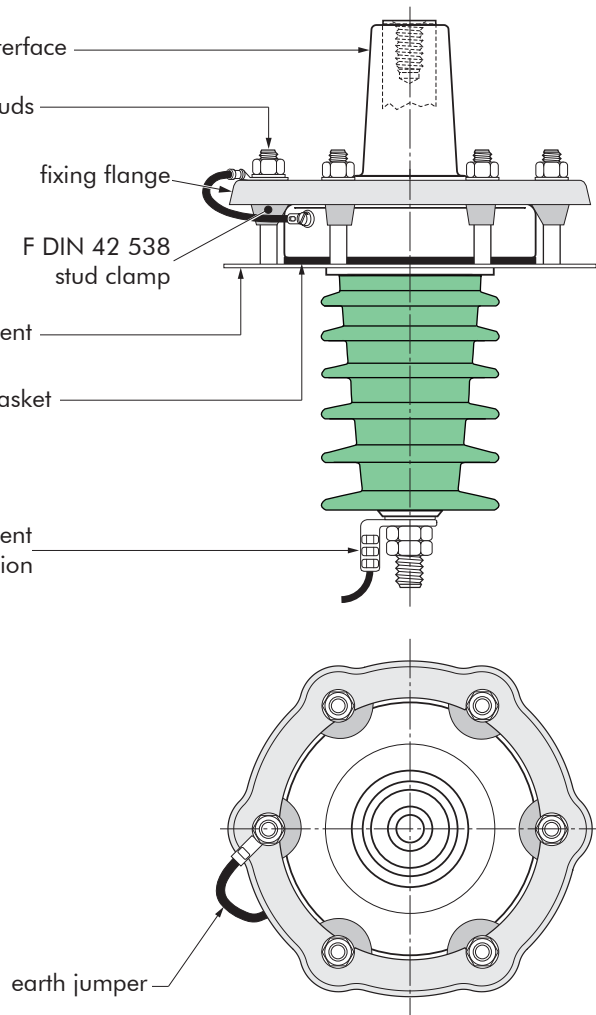
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# FIXINGS FOR EQUIPMENT BUSHINGS

## 400AR-4BC/GS BUSHING



## 400AR-4BC/J BUSHING



### BUSHING CLAMPING KIT

To order the bushing clamping kit, according to NFC 52-053 standards, simply specify: KBC - NFC 52-053 /400 SERIES.

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

### BUSHING CLAMPING KIT

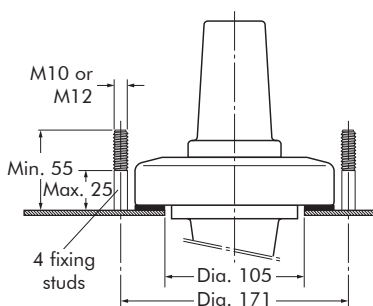
To order the bushing clamping kit with DIN style fixing flange, simply specify: KBC - RING CLAMP 3.

Contents:

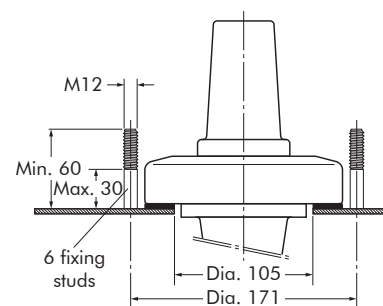
- 1 x fixing flange Ø150 mm  
- 6 x stud clamp F DIN 42 538  
- 1 x sealing gasket.

### FIXING DIMENSIONS STANDARDS NFC C 52-053

French standards.



### FIXING DIMENSIONS



In mm.

# 400AR-5

## INTERFACE C2 EQUIPMENT BUSHING

### APPLICATION

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

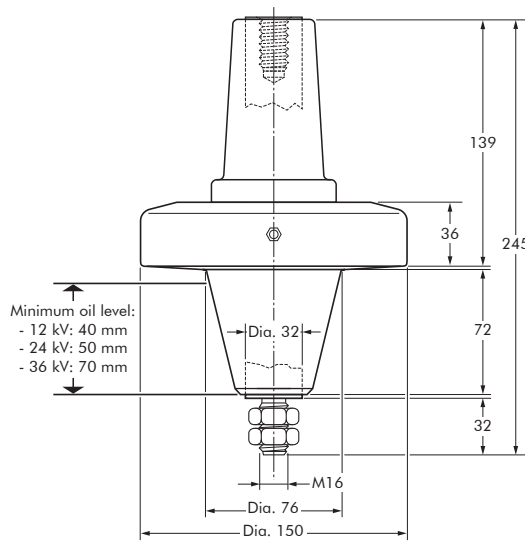
### TECHNICAL CHARACTERISTICS

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.



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

**Up to 36kV - 1250A**

**EUROMOLD®**

In mm.

### ORDERING INSTRUCTIONS

To order the equipment bushing, specify the type.

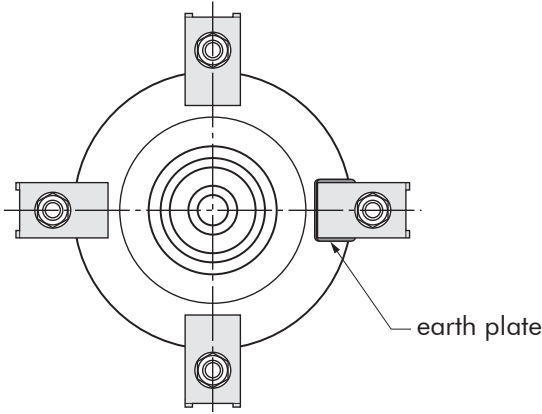
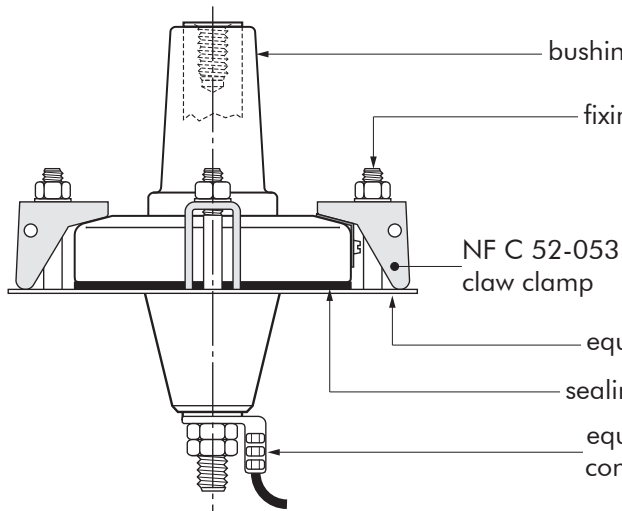
The bushings can be supplied with an earth jumper (/J) or an earth plate (/GS). This earth connection must be specified when ordering. E.g. M400AR-5/GS.

Equipment bushing type	Voltage Um (kV)	Current Ir (A)
400AR-5	12	1250
K400AR-5	24	1250
M400AR-5	36	1250

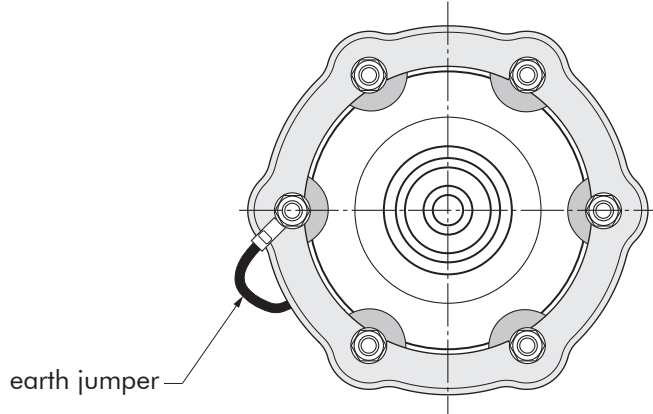
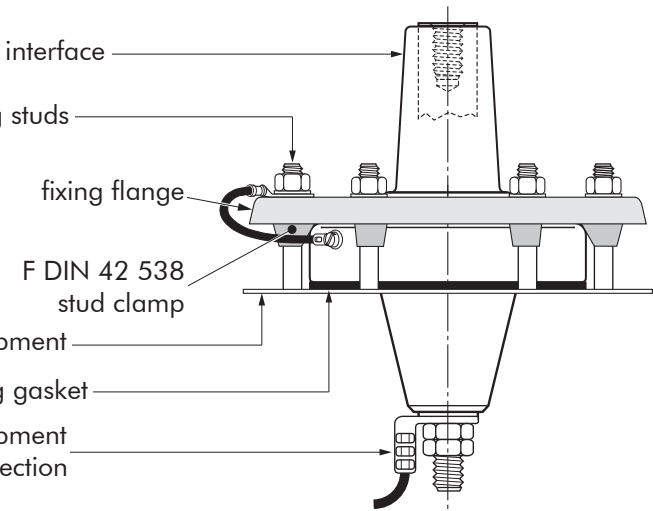
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# FIXINGS FOR EQUIPMENT BUSHINGS

## 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: KBC - NFC 52-053 /400 SERIES.

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

## BUSHING CLAMPING KIT

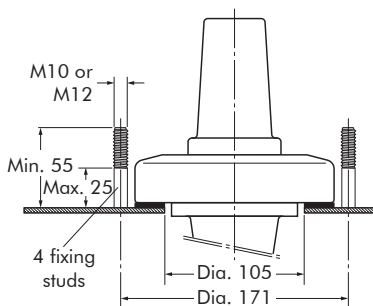
To order the bushing clamping kit with DIN style fixing flange, simply specify: KBC - RING CLAMP 3.

Contents:

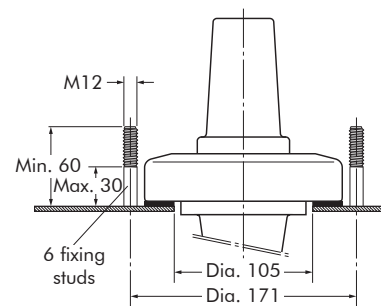
- 1 x fixing flange Ø150 mm
- 6 x stud clamp F DIN 42 538
- 1 x sealing gasket.

## FIXING DIMENSIONS STANDARDS NF C 52-053

French standards.



## FIXING DIMENSIONS



# 400AR-6

## INTERFACE C1 EQUIPMENT BUSHING

### 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.

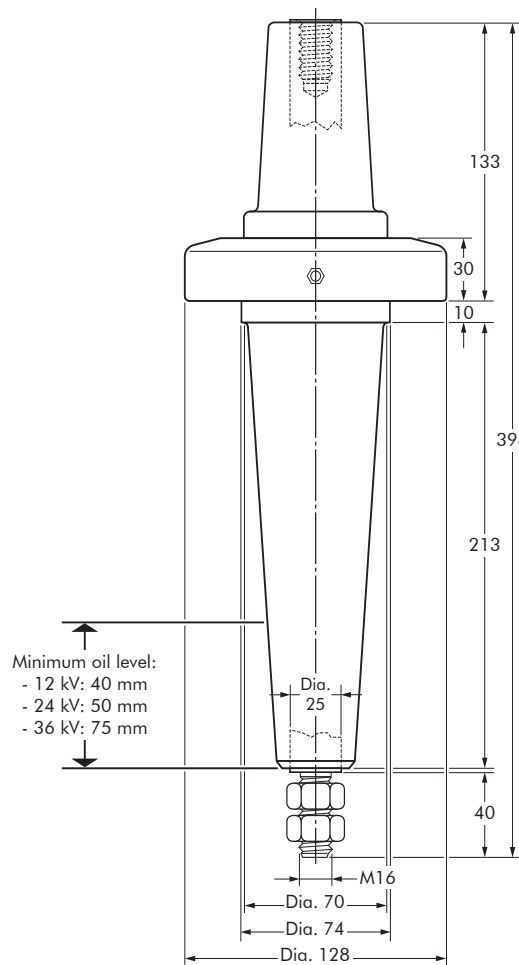


### SPECIFICATIONS AND STANDARDS

The bolted type equipment bushings 400AR-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.



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

Up to 36kV - 630 A

**EUROMOLD®**

In mm.

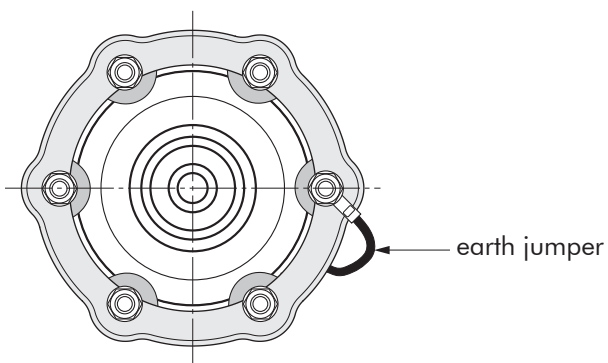
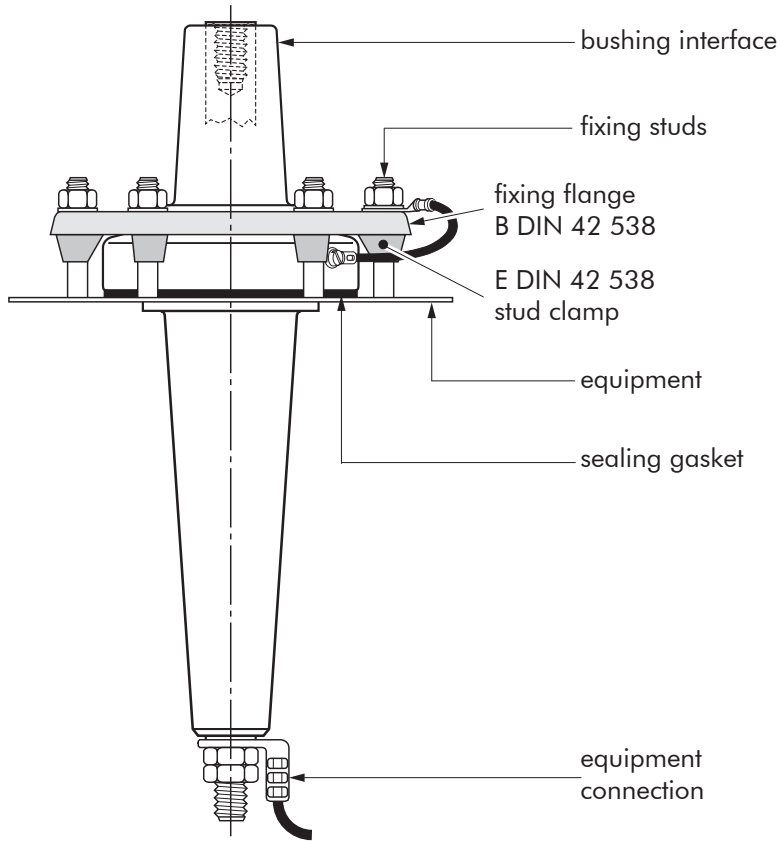
Equipment bushing type	Voltage $U_m$ (kV)	Current $I_r$ (A)
400AR-6	12	630
K400AR-6	24	630
M400AR-6	36	630

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# FIXINGS FOR EQUIPMENT BUSHINGS

## 400AR-6/J BUSHING



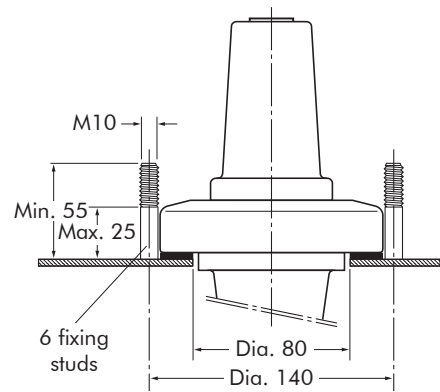
## BUSHING CLAMPING KIT

To order the bushing clamping kit, according to DIN 42 538 standards, simply specify: KBC - RING CLAMP 2.

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 C2 EQUIPMENT BUSHING

### APPLICATION

For use in equipment insulated with SF<sub>6</sub> gas.

### TECHNICAL CHARACTERISTICS

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



### DESIGN

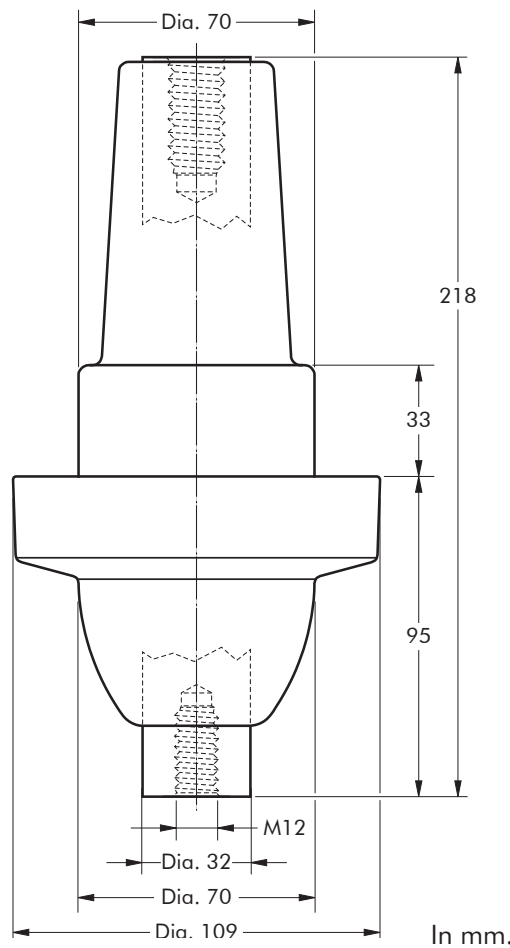
The equipment bushing is a moulded epoxy insulated part with a connector interface in accordance with CENELEC EN 50181. The 400SFR-B bushing has a shank outside this standard, adapted to use in SF<sub>6</sub> gas.

### 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.



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

Up to 36kV - 1250 A

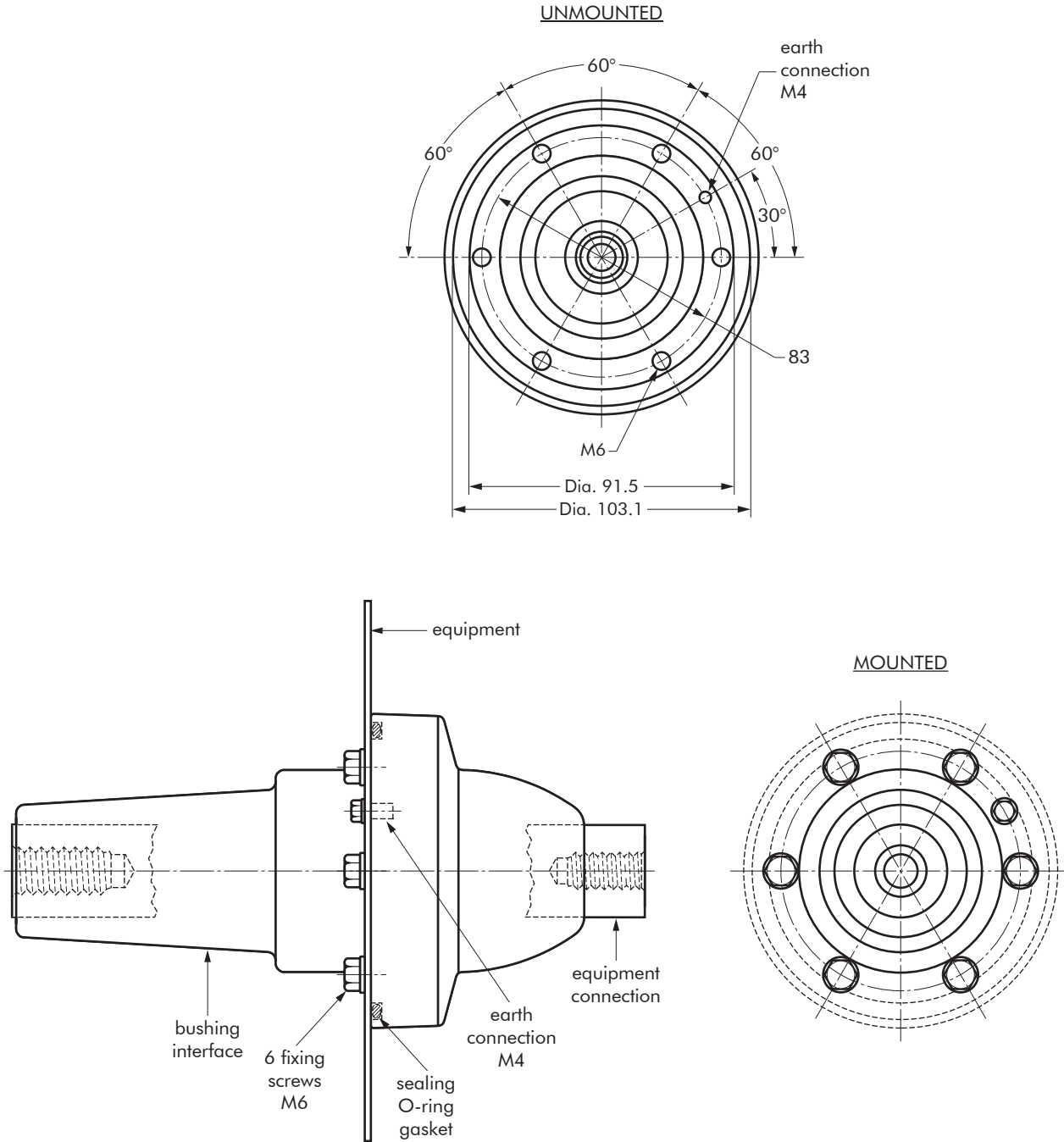
**EUROMOLD®**

Equipment bushing type	Voltage Um (kV)	Interface	Current Ir (A)
400SFR-B 1250 A	12	C2	1250
K400SFR-B 1250 A	24	C2	1250
M400SFR-B 1250 A	36	C2	1250

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# FIXINGS FOR EQUIPMENT BUSHINGS

## 400SFR-B BUSHING FOR GAS INSULATED SWITCHGEAR



In mm.

# 400A-24B

## INTERFACE C1 IN-AIR BUSHING

### 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.

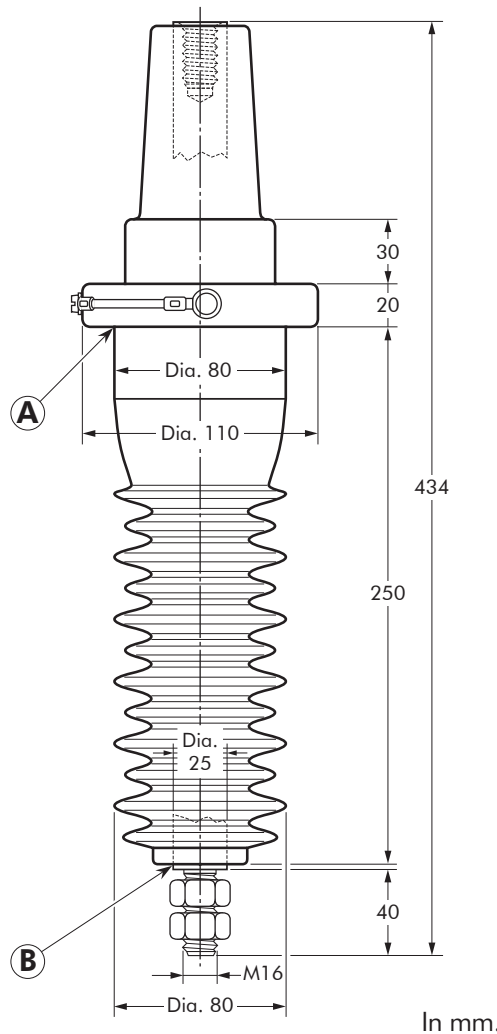


### SPECIFICATIONS AND STANDARDS

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.



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

Up to 24 kV - 630 A

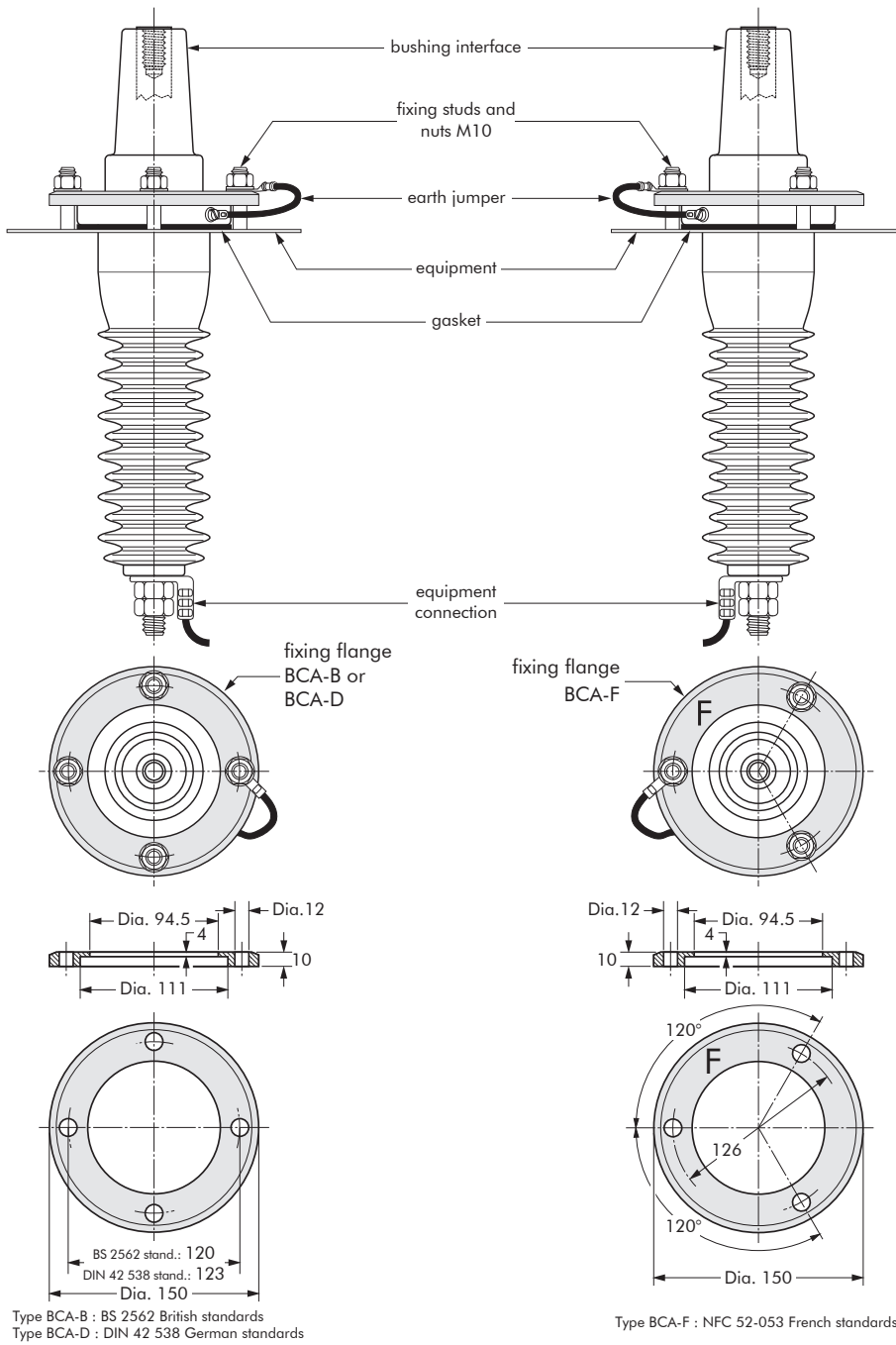
**EUROMOLD®**

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

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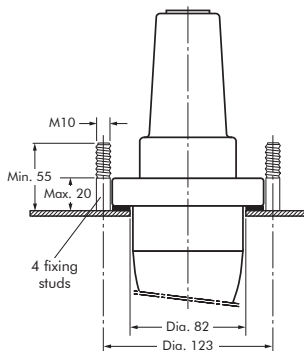
# FIXINGS FOR EQUIPMENT BUSHINGS

## 400A-24B IN-AIR BUSHING



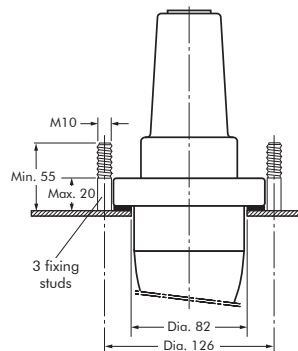
## FIXING DIMENSIONS STANDARDS DIN 42 538

German standards.



## FIXING DIMENSIONS STANDARDS NF C 52-053

French standards.



# 670AR-2

## INTERFACE D2 EQUIPMENT BUSHING

### 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.

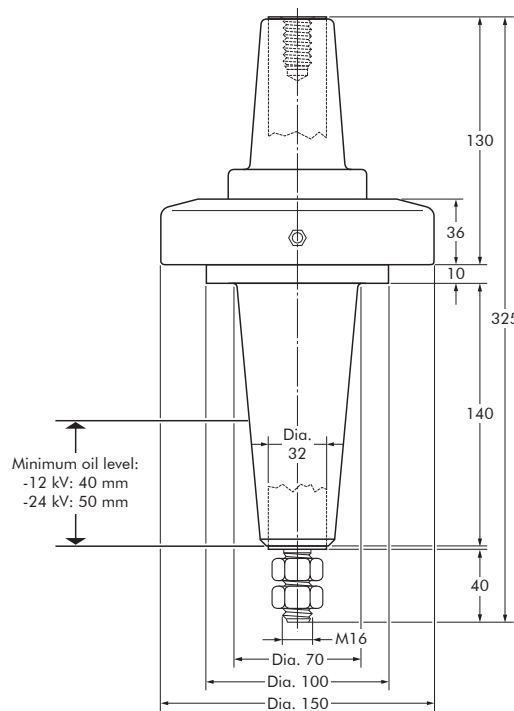


### SPECIFICATIONS AND STANDARDS

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.



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

**Up to 24 kV - 1250 A**

**EUROMOLD®**

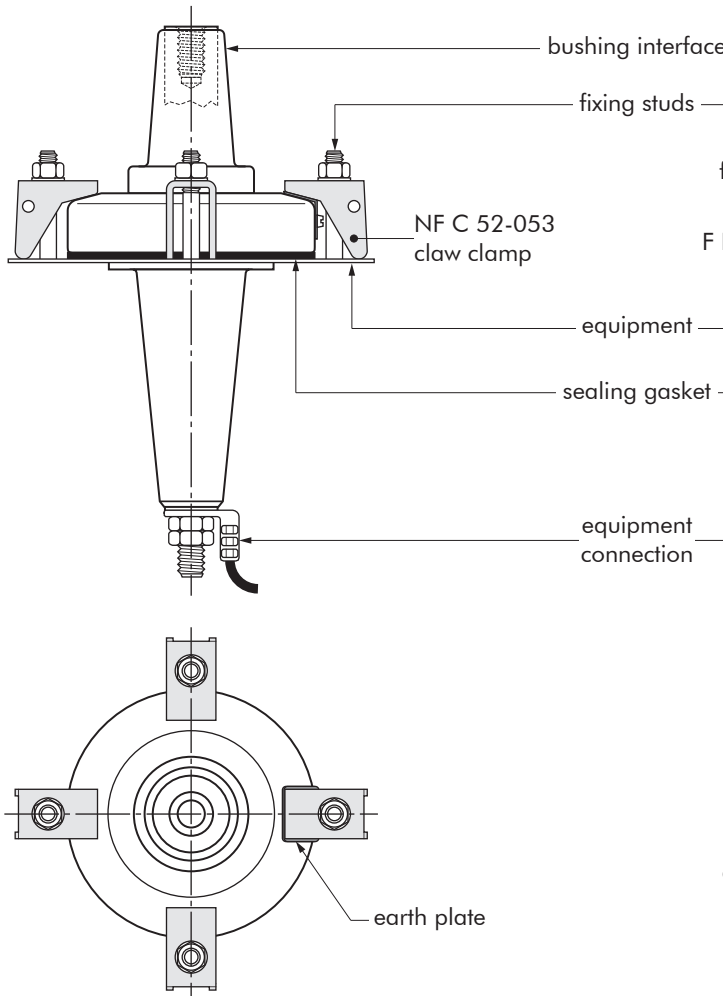
In mm.

Equipment bushing type	Voltage Um (kV)	Current Ir (A)
670AR-2	12	1250
K670AR-2	24	1250

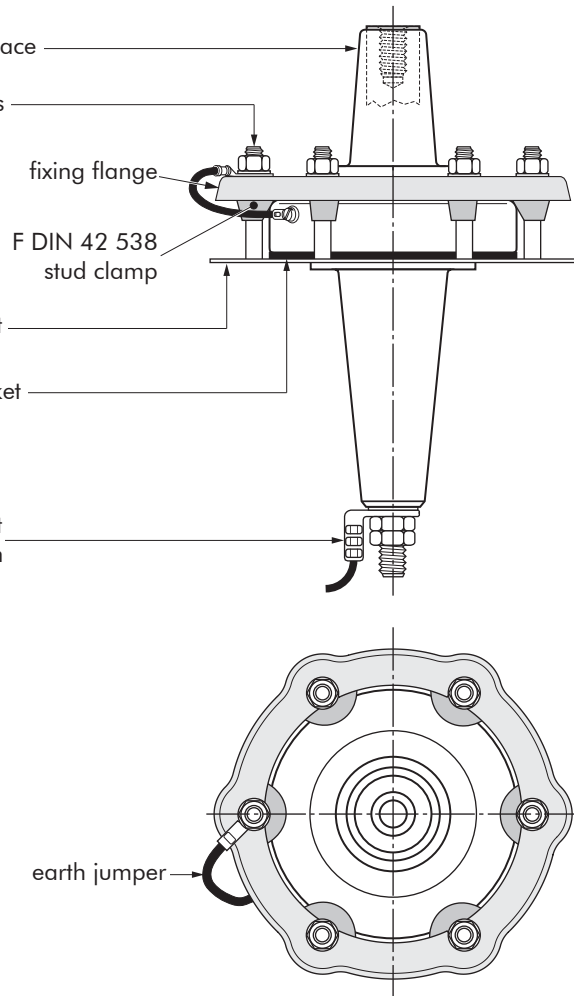
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# FIXINGS FOR EQUIPMENT BUSHINGS

## 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: KBC - NFC 52-053 /400 SERIES.

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

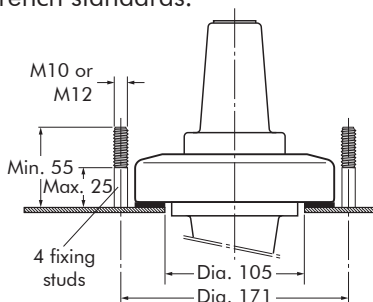
### BUSHING CLAMPING KIT

To order the bushing clamping kit with DIN style fixing flange, simply specify: KBC - RING CLAMP 3.

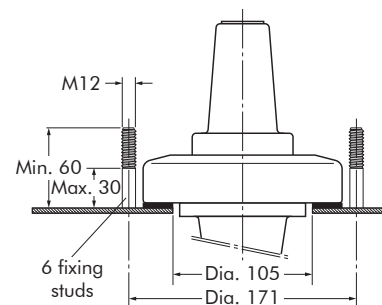
Contents: - 1 x fixing flange  
Ø150 mm  
- 6 x stud clamp  
F DIN 42 538  
- 1 x sealing gasket.

### FIXING DIMENSIONS STANDARDS NF C 52-053

French standards.



### FIXING DIMENSIONS



In mm.

# 900AR-1/2/3/4/7

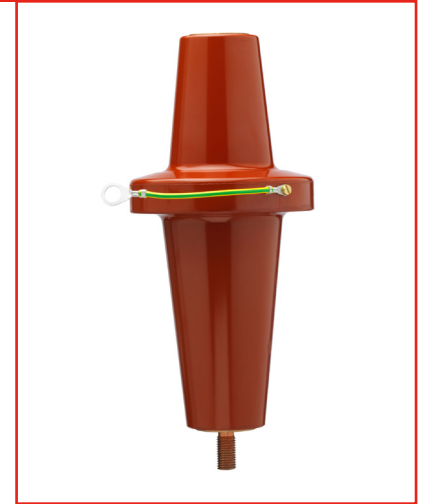
## INTERFACE F EQUIPMENT BUSHING

### 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.

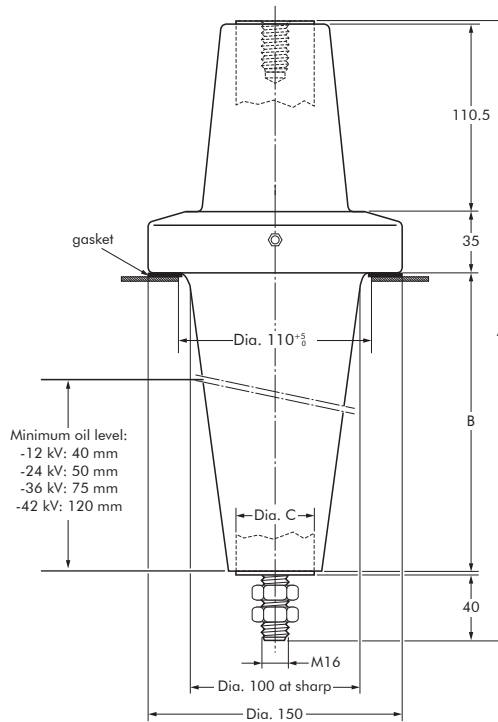


### SPECIFICATIONS AND STANDARDS

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. 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.



- 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

Up to 42 kV - 2500 A

**EUROMOLD®**

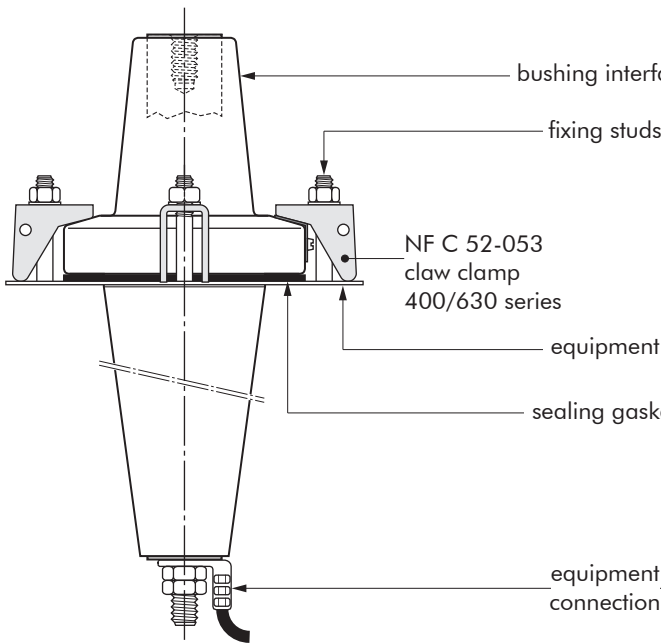
In mm.

Equipment bushing type	Interface type	Voltage Um (kV)	Current Ir (A)	Dimensions (mm)		
				A	B	Dia. C
(K)(M)(P)900AR-1	F3	(24) (36) (42)	1250	364	175	32
(K)(M)(P)900AR-2	F2	(24) (36) (42)	630	364	175	25
(K)(M)900AR-3	F1	(24) (36)	2500	364	175	50
(K)(M)900AR-4	F1	(24) (36)	2500	259	70	50
(K)(M)(P)900AR-7	F2	(24) (36) (42)	630	259	70	25

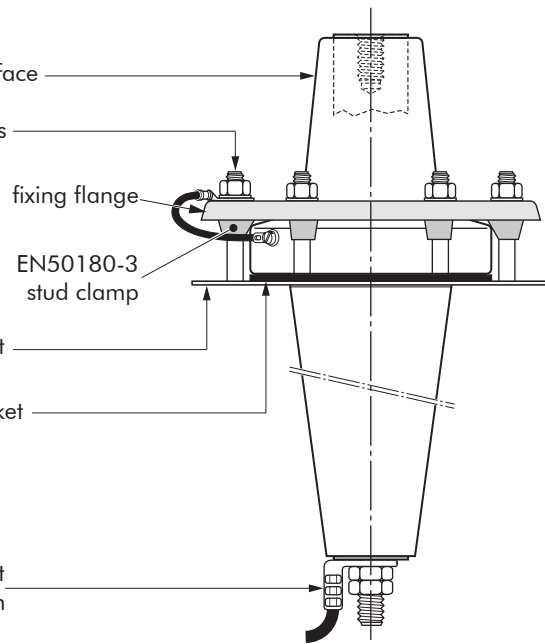


# FIXINGS FOR EQUIPMENT BUSHINGS

## 900AR-X/GS BUSHING



## 900AR-X/J BUSHING



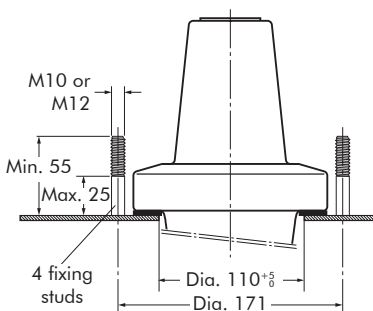
### BUSHING CLAMPING KIT

To order the bushing clamping kit, according to NF C 52-053 standards, simply specify: KBC - NFC 52-053 /400 SERIES.

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

### FIXING DIMENSIONS STANDARDS NF C 52-053

French standards.

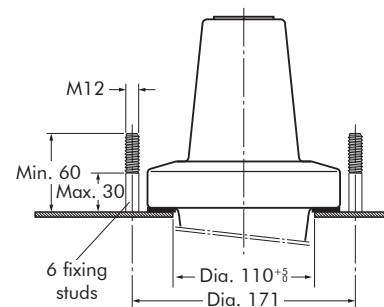


### BUSHING CLAMPING KIT

To order the bushing clamping kit with DIN style fixing flange, simply specify: KBC - RING CLAMP 3.

Contents: - 1 x fixing flange  
Ø150 mm  
- 6 x stud clamp  
EN50180-3  
- 1 x sealing gasket.

### FIXING DIMENSIONS



### APPLICATION

Moulded epoxy insulated bushings 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.



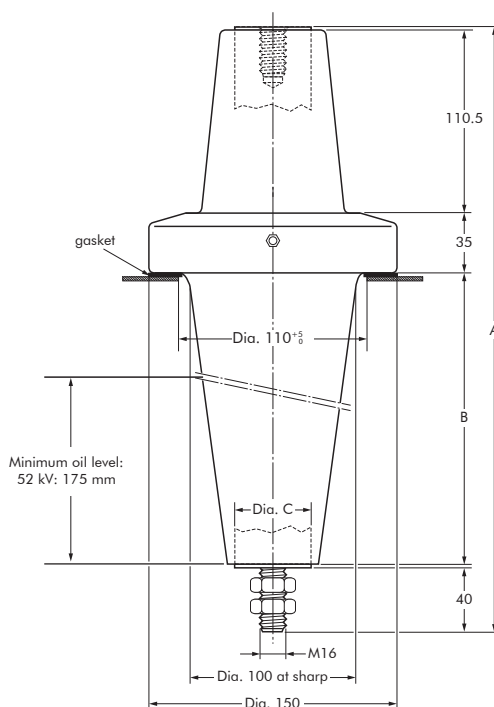
### SPECIFICATIONS AND STANDARDS

The bolted type equipment bushings Q900AR-X are moulded epoxy insulated parts with type F interface. They are type tested according IEC 60137 and IEC 60840 for 52 kV Um.

### ORDERING INSTRUCTIONS

To order the equipment bushing, specify the type.

The bushing is supplied with an earth jumper (/J). Order QM or QH depending on the routine test required (see table below). E.g. QM900AR-2/J



26/45 (52) kV

Up to 1250 A

**EUROMOLD®**

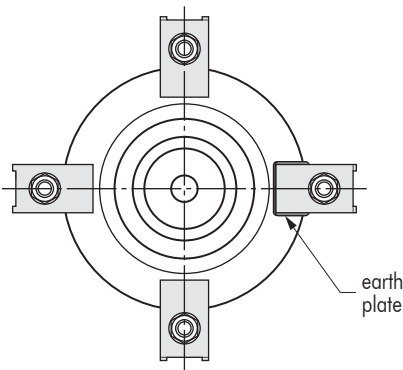
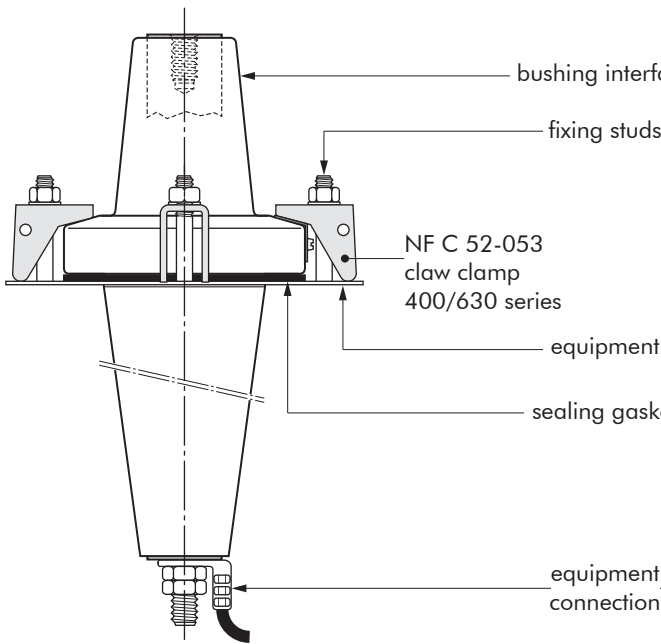
Type	Partial discharge extinction	AC voltage
QM900AR-X	5 pC @ 52 kV	1' @ 97 kV
QH900AR-X	5 pC @ 52 kV	1' @ 115 kV + 30' @ 90 kV

Equipment bushing type	Interface type	Max. operating voltage $U_m$ (kV)	Current $I_r$ (A)	Dimensions (mm)		
				A	B	Dia. C
Q(M)(H)900AR-1	F3	52	1250	364	175	32
Q(M)(H)900AR-2	F2	52	630	364	175	25
Q(M)(H)900AR-2	F2	52	630	259	70	25

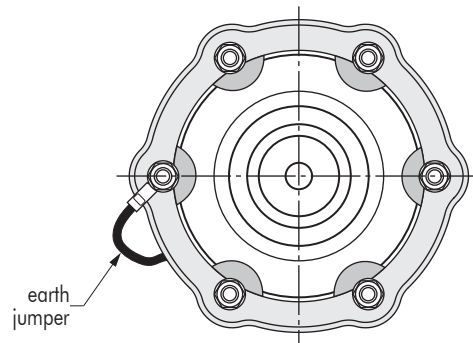
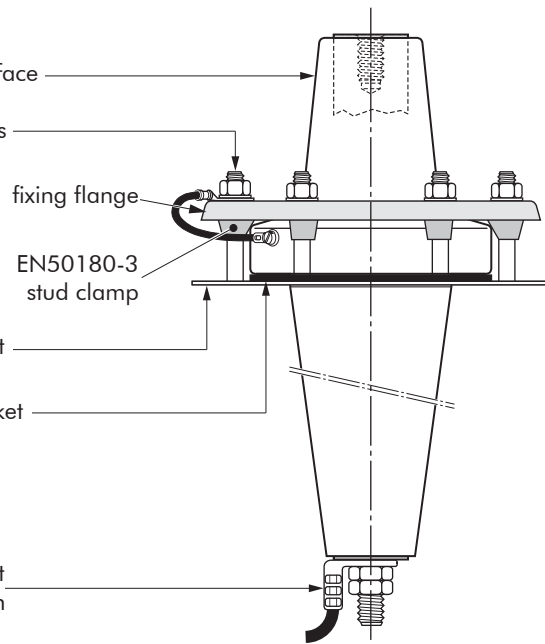
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# FIXINGS FOR EQUIPMENT BUSHINGS

## 900AR-X/GS BUSHING



## 900AR-X/J BUSHING



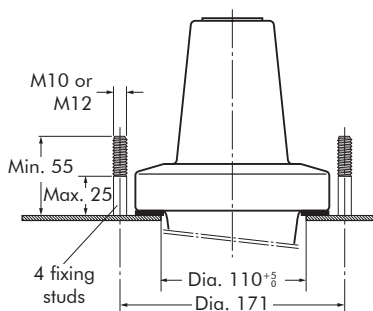
### BUSHING CLAMPING KIT

To order the bushing clamping kit, according to NF C 52-053 standards, simply specify: KBC - NFC 52-053 /400 SERIES.

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

### FIXING DIMENSIONS STANDARDS NF C 52-053

French standards.

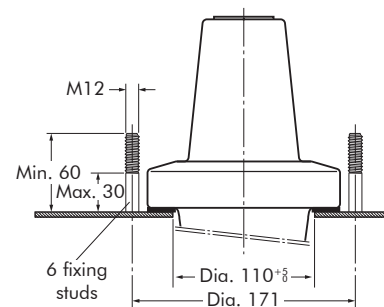


### BUSHING CLAMPING KIT

To order the bushing clamping kit with DIN style fixing flange, simply specify: KBC - RING CLAMP 3.

Contents: - 1 x fixing flange  
Ø150 mm  
- 6 x stud clamp  
EN50180-3  
- 1 x sealing gasket.

### FIXING DIMENSIONS



# NOTES

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