EUROMOLD®

MEDIUM VOLTAGE EQUIPMENT BUSHINGS

CATALOGUE 2020

Nexans
BRINGS ENERGY TO LIFE
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.
# 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.

SHORT CIRCUIT RATINGS

<table>
<thead>
<tr>
<th>Interface type</th>
<th>Contact type</th>
<th>Current rating (A)</th>
<th>RMS symm. (kA)</th>
<th>Peak asymm. (kA)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>1 sec.</td>
<td>2 sec.</td>
</tr>
<tr>
<td>A1</td>
<td>Pin and socket</td>
<td>250</td>
<td>12.5</td>
<td>9.0</td>
</tr>
<tr>
<td>B1</td>
<td>Pin and socket</td>
<td>250</td>
<td>12.5</td>
<td>9.0</td>
</tr>
<tr>
<td>B2</td>
<td>Pin and socket</td>
<td>400</td>
<td>16.0</td>
<td>11.3</td>
</tr>
<tr>
<td>C1</td>
<td>Bolted</td>
<td>630</td>
<td>28.0</td>
<td>19.7</td>
</tr>
<tr>
<td>C2</td>
<td>Bolted</td>
<td>1250</td>
<td>75.0</td>
<td>53.0</td>
</tr>
<tr>
<td>D1</td>
<td>Bolted</td>
<td>800</td>
<td>50.0</td>
<td>35.3</td>
</tr>
<tr>
<td>D2</td>
<td>Bolted</td>
<td>1250</td>
<td>75.0</td>
<td>53.0</td>
</tr>
<tr>
<td>F1</td>
<td>Bolted</td>
<td>2500</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>F2</td>
<td>Bolted</td>
<td>630</td>
<td>28.0</td>
<td>19.7</td>
</tr>
<tr>
<td>F3</td>
<td>Bolted</td>
<td>1250</td>
<td>75.0</td>
<td>53.0</td>
</tr>
</tbody>
</table>

In mm.
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.

<table>
<thead>
<tr>
<th>Equipment bushing type</th>
<th>Voltage Um (kV)</th>
<th>Current Ir (A)</th>
<th>Dimensions (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>A</td>
</tr>
<tr>
<td>180AR-1</td>
<td>12</td>
<td>250</td>
<td>222</td>
</tr>
<tr>
<td>K180AR-1</td>
<td>24</td>
<td>250</td>
<td>222</td>
</tr>
<tr>
<td>180AR-2</td>
<td>12</td>
<td>250</td>
<td>284</td>
</tr>
<tr>
<td>K180AR-2</td>
<td>24</td>
<td>250</td>
<td>284</td>
</tr>
<tr>
<td>180AR-3</td>
<td>12</td>
<td>250</td>
<td>171</td>
</tr>
<tr>
<td>K180AR-3</td>
<td>24</td>
<td>250</td>
<td>171</td>
</tr>
</tbody>
</table>

Minimum oil level:
- 12 kV: 40 mm
- 24 kV: 50 mm

In mm.
FIXINGS FOR EQUIPMENT BUSHINGS

180AR-1/GS
180AR-1-G/GS
180AR-2/GS
180AR-3/GS AND
180AR-3-G/GS BUSHINGS

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.

180AR-1/J
180AR-1-G/J
180AR-2/J
180AR-3/J AND
180AR-3-G/J BUSHINGS

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.

BUSHING CLAMPING KIT
BUSHING CLAMPING KIT

FIXING DIMENSIONS
STANDARDS NF C 52-053
French standards.

FIXING DIMENSIONS
STANDARDS DIN 42 538
German standards.

In mm.
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.

<table>
<thead>
<tr>
<th>Equipment bushing type</th>
<th>Voltage Um (kV)</th>
<th>Current Ir (A)</th>
<th>Creepage distance A-B (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>180A-24P-O</td>
<td>12</td>
<td>250</td>
<td>630</td>
</tr>
<tr>
<td>180A-24P-O</td>
<td>24</td>
<td>250</td>
<td>630</td>
</tr>
</tbody>
</table>

In mm.
FIXINGS FOR EQUIPMENT BUSHINGS

180A-24P-O IN-AIR BUSHING

bushing interface
fixing studs and
nibs M10
earth jumper
equipment
gasket

FIXING DIMENSIONS
STANDARDS DIN 42 538
German standards.

Please refer to the diagram for detailed dimensions and specifications.
400T1/400AR-1/400AR-2

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.

<table>
<thead>
<tr>
<th>Equipment bushing type</th>
<th>Voltage Um (kV)</th>
<th>Current Ir (A)</th>
<th>Dimensions (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>A</td>
</tr>
<tr>
<td>400T1</td>
<td>12</td>
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<td>310</td>
</tr>
<tr>
<td>K400T1</td>
<td>24</td>
<td>400</td>
<td>310</td>
</tr>
<tr>
<td>M400T1</td>
<td>36</td>
<td>400</td>
<td>310</td>
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<tr>
<td>400AR-1</td>
<td>12</td>
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<td>380</td>
</tr>
<tr>
<td>K400AR-1</td>
<td>24</td>
<td>400</td>
<td>380</td>
</tr>
<tr>
<td>M400AR-1</td>
<td>36</td>
<td>400</td>
<td>380</td>
</tr>
<tr>
<td>400AR-2</td>
<td>12</td>
<td>400</td>
<td>329</td>
</tr>
<tr>
<td>K400AR-2</td>
<td>24</td>
<td>400</td>
<td>329</td>
</tr>
<tr>
<td>M400AR-2</td>
<td>36</td>
<td>400</td>
<td>329</td>
</tr>
</tbody>
</table>
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, according to DIN 42 538 standards, 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

FIXING DIMENSIONS STANDARDS DIN 42 538
German standards.

Dia. 105
Dia. 171
6 fixing studs

M10 or M12
Min. 55
Max. 25
4 fixing studs

Dia. 105
Dia. 171
6 fixing studs

M12
Min. 60
Max. 30

Dia. 90
Dia. 140
6 fixing studs

In mm.
400AR-8

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.

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.

<table>
<thead>
<tr>
<th>Equipment bushing type</th>
<th>Voltage Um (kV)</th>
<th>Current Ir (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>400AR-8</td>
<td>12</td>
<td>250</td>
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<tr>
<td>K400AR-8</td>
<td>24</td>
<td>250</td>
</tr>
<tr>
<td>M400AR-8</td>
<td>36</td>
<td>250</td>
</tr>
</tbody>
</table>

EUROMOLD®

Up to 36 kV - 250 A

Minimum oil level:
- 12 kV: 40 mm
- 24 kV: 50 mm
- 36 kV: 75 mm

In mm.
**FIXINGS FOR EQUIPMENT BUSHINGS**

**400AR-8/J BUSHING**

![Diagram of 400AR-8/J Bushing]

- **bushing interface**
- **4 x fixing stud M10**
- **A DIN 42 538 fixing flange**
- **E DIN 42 538 stud clamp**
- **equipment**
- **sealing gasket**
- **equipment connection**
- **tabs for the bail restraint**
- **earth jumper**

**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.

![Diagram of Fixing Dimensions]

- **M10**
- **Min. 55**
- **Max. 30**
- **4 fixing studs**
- **Dia. 78**
- **Dia. 123**

In mm.
400SFR-P

**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 50181. 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.

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**EUROMOLD®**

<table>
<thead>
<tr>
<th>Equipment bushing type</th>
<th>Voltage Um (kV)</th>
<th>Current Ir (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>400SFR-P</td>
<td>12</td>
<td>400</td>
</tr>
<tr>
<td>K400SFR-P</td>
<td>24</td>
<td>400</td>
</tr>
</tbody>
</table>

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**Up to 24 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
FIXINGS FOR EQUIPMENT BUSHINGS

400SFR-P BUSHING FOR GAS INSULATED SWITCHGEAR

In mm.

MOUNTED

UNMOUNTED

97.5

Dia. 100

Dia. 4

Dia. 91.5
Dia. 103.1

30°
60°
60°
60°

earth
collection
M4

6 fixing
screws
M6

sealing
O-ring
gasket

bail
tab

equipment

connection

equipment

connection

earth
connection
M4
**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.

**EUROMOLD®**
Up to 36kV - 630A

<table>
<thead>
<tr>
<th>Equipment bushing type</th>
<th>Voltage Um (kV)</th>
<th>Current Ir (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>400AR-3</td>
<td>12</td>
<td>630</td>
</tr>
<tr>
<td>K400AR-3</td>
<td>24</td>
<td>630</td>
</tr>
<tr>
<td>M400AR-3</td>
<td>36</td>
<td>630</td>
</tr>
</tbody>
</table>

Minimum oil level:
- 12 kV: 40 mm
- 24 kV: 50 mm
- 36 kV: 75 mm

In mm.
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.
**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.

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<table>
<thead>
<tr>
<th>Equipment bushing type</th>
<th>Voltage Um (kV)</th>
<th>Current Ir (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>400AR-4</td>
<td>12</td>
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<tr>
<td>K400AR-4</td>
<td>24</td>
<td>1250</td>
</tr>
<tr>
<td>M400AR-4</td>
<td>36</td>
<td>1250</td>
</tr>
</tbody>
</table>

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**EUROMOLD®**

Up to 36kV - 1250A

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400AR-4
FIXINGS FOR EQUIPMENT BUSHINGS

400AR-4/GS 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.

FIXING DIMENSIONS
STANDARDS NF C 52-053
French standards.

400AR-4/J BUSHING

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

In mm.
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.

<table>
<thead>
<tr>
<th>Equipment bushing type</th>
<th>Voltage Um (kV)</th>
<th>Current Ir (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>400AR-5</td>
<td>12</td>
<td>1250</td>
</tr>
<tr>
<td>K400AR-5</td>
<td>24</td>
<td>1250</td>
</tr>
<tr>
<td>M400AR-5</td>
<td>36</td>
<td>1250</td>
</tr>
</tbody>
</table>
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.

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.

French standards.
**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.

<table>
<thead>
<tr>
<th>Equipment bushing type</th>
<th>Voltage $U_m$ (kV)</th>
<th>Current $I_r$ (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>400AR-6</td>
<td>12</td>
<td>630</td>
</tr>
<tr>
<td>K400AR-6</td>
<td>24</td>
<td>630</td>
</tr>
<tr>
<td>M400AR-6</td>
<td>36</td>
<td>630</td>
</tr>
</tbody>
</table>

Up to 36kV - 630 A

**EUROMOLD®**

Minimum oil level:
- 12 kV: 40 mm
- 24 kV: 50 mm
- 36 kV: 75 mm

In mm.
**FIXINGS FOR EQUIPMENT BUSHINGS**

**400AR-6/J BUSHING**

- bushing interface
- fixing studs
- fixing flange
  - B DIN 42 538
- E DIN 42 538
- stud clamp
- equipment
- sealing gasket
- equipment connection
- earth jumper

**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.

- M10
- Min. 55
- Max. 25
- 6 fixing studs
- Dia. 80
- Dia. 140
**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 50181.
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.

<table>
<thead>
<tr>
<th>Equipment bushing type</th>
<th>Voltage Um (kV)</th>
<th>Interface</th>
<th>Current Ir (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>400SFR-B 1250 A</td>
<td>12</td>
<td>C2</td>
<td>1250</td>
</tr>
<tr>
<td>K400SFR-B 1250 A</td>
<td>24</td>
<td>C2</td>
<td>1250</td>
</tr>
<tr>
<td>M400SFR-B 1250 A</td>
<td>36</td>
<td>C2</td>
<td>1250</td>
</tr>
</tbody>
</table>

**EUROMOLD®**

**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**
400SFR-B BUSHING FOR GAS INSULATED SWITCHGEAR

**FIXINGS FOR EQUIPMENT BUSHINGS**

**UNMOUNTED**
- 60° connection M4
- 60° connection M4
- 60° connection M4
- 30° connection M6
- Dia. 91.5
- Dia. 103.1

**MOUNTED**
- bushing interface
- 6 fixing screws M6
- sealing O-ring gasket
- earth connection M4
- equipment connection

equipment

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

**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.

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

<table>
<thead>
<tr>
<th>Equipment bushing type</th>
<th>Voltage Um (kV)</th>
<th>Current Ir (A)</th>
<th>Creepage distance A-B (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>400A-24B</td>
<td>12</td>
<td>630</td>
<td>520</td>
</tr>
<tr>
<td>400A-24B</td>
<td>24</td>
<td>630</td>
<td>520</td>
</tr>
</tbody>
</table>

**EUROMOLD®**

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
**FIXINGS FOR EQUIPMENT BUSHINGS**

400A-24B IN-AIR BUSHING

Bushing Interface

Fixing Studs and Nuts M10

Earth Jumper

Equipment Connection

Fixing Flange
- BCA-B or BCA-D
- BCA-F

Fixing Dimensions

**STANDARDS DIN 42 538**
German standards.

**STANDARDS NF C 52-053**
French standards.

In mm.
**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.

**EUROMOLD®**

<table>
<thead>
<tr>
<th>Equipment bushing type</th>
<th>Voltage Um (kV)</th>
<th>Current Ir (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>670AR-2</td>
<td>12</td>
<td>1250</td>
</tr>
<tr>
<td>K670AR-2</td>
<td>24</td>
<td>1250</td>
</tr>
</tbody>
</table>
**FIXINGS FOR EQUIPMENT BUSHINGS**

**670AR-2/GS BUSHING**

- **bushing interface**
- **fixing studs**
- **NF C 52-053**
- **claw clamp**
- **equipment**
- **sealing gasket**
- **connection**

**670AR-2/J BUSHING**

- **fixing flange**
- **F DIN 42 538**
- **stud clamp**

**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.

**FIXING DIMENSIONS**

**STANDARDS NF C 52-053**

French standards.

**4 fixing studs**

- **Dia. 105**
- **Dia. 171**

**6 fixing studs**

- **Dia. 105**
- **Dia. 171**

**In mm.**
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.

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

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

<table>
<thead>
<tr>
<th>Equipment bushing type</th>
<th>Interface type</th>
<th>Voltage Um (kV)</th>
<th>Current Ir (A)</th>
<th>Dimensions (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>A</td>
</tr>
<tr>
<td>(K)(M)(P)900AR-1</td>
<td>F3</td>
<td>(24) (36) (42)</td>
<td>1250</td>
<td>364</td>
</tr>
<tr>
<td>(K)(M)(P)900AR-2</td>
<td>F2</td>
<td>(24) (36) (42)</td>
<td>630</td>
<td>364</td>
</tr>
<tr>
<td>(K)(M)900AR-3</td>
<td>F1</td>
<td>(24) (36)</td>
<td>2500</td>
<td>364</td>
</tr>
<tr>
<td>(K)(M)900AR-4</td>
<td>F1</td>
<td>(24) (36)</td>
<td>2500</td>
<td>259</td>
</tr>
<tr>
<td>(K)(M)(P)900AR-7</td>
<td>F2</td>
<td>(24) (36) (42)</td>
<td>630</td>
<td>259</td>
</tr>
</tbody>
</table>

 EUROMOLD®
Up to 42 kV - 2500 A
**FIXINGS FOR EQUIPMENT BUSHINGS**

### 900AR-X/GS 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.

![Diagram](image)

### 900AR-X/J BUSHING

**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**

![Diagram](image)
**TECHNICAL CHARACTERISTICS**

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

**APPLICATION**

Moulded epoxy insulated bushings for use in equipment, typically for transformers, switchgear, capacitors...

**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

**EUROMOLD®**

**26/45 (52) kV**

Up to 1250 A

### Table: Technical Specifications

<table>
<thead>
<tr>
<th>Type</th>
<th>Partial discharge extinction</th>
<th>AC voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>QM900AR-X</td>
<td>5 pC @ 52 kV</td>
<td>1' @ 97 kV</td>
</tr>
<tr>
<td>QH900AR-X</td>
<td>5 pC @ 52 kV</td>
<td>1' @ 115 kV + 30' @ 90 kV</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Equipment bushing type</th>
<th>Interface type</th>
<th>Max. operating voltage $U_m$ (kV)</th>
<th>Current $I_r$ (A)</th>
<th>Dimensions (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q(M)(H)900AR-1</td>
<td>F3</td>
<td>52</td>
<td>1250</td>
<td>364 175 32</td>
</tr>
<tr>
<td>Q(M)(H)900AR-2</td>
<td>F2</td>
<td>52</td>
<td>630</td>
<td>364 175 25</td>
</tr>
<tr>
<td>Q(M)(H)900AR-2</td>
<td>F2</td>
<td>52</td>
<td>630</td>
<td>259 70 25</td>
</tr>
</tbody>
</table>
**FIXINGS FOR EQUIPMENT BUSHINGS**

**900AR-X/GS 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.

**900AR-X/J BUSHING**

- **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**
  - In mm.