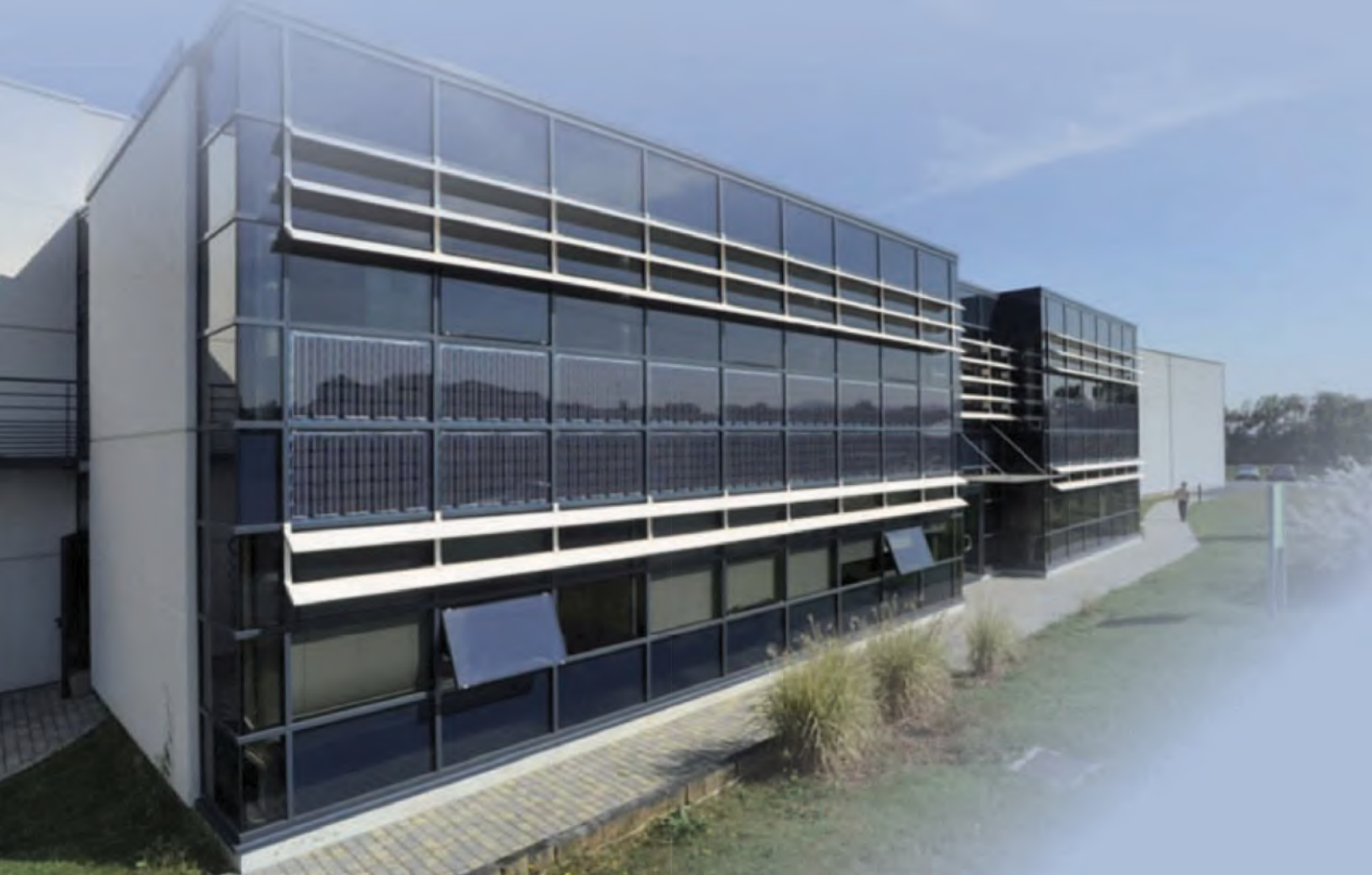


Rotary seals

Techné
— LA PERFORMANCE AU QUOTIDIEN



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Information in this catalogue is based on the experience gained by Techné in the last decade of research & development and manufacture of sealing products. It represents the current state of our knowledge and know-how. The sealing function of rotary shaft seals do not rely only on the component itself, but on other parameters such as the assembly, the applied pressure, contact area, operating temperature, mechanical stress, media, liquids in contact, lubrication and any kind of outside dirt. Because of this high number of parameters, it is not possible to give general statements on the function of the products in this catalogue. Information in this catalogue only represents recommended values that are not true in each application. Moreover it is essential to perform sealing tests in order to confirm the good functionality of the sealing system.

In the context of product optimisation, we reserve the right to change, without prior notice, our product range, tolerances, materials and manufacturing process as well as the information mentioned in this catalogue.

Contents

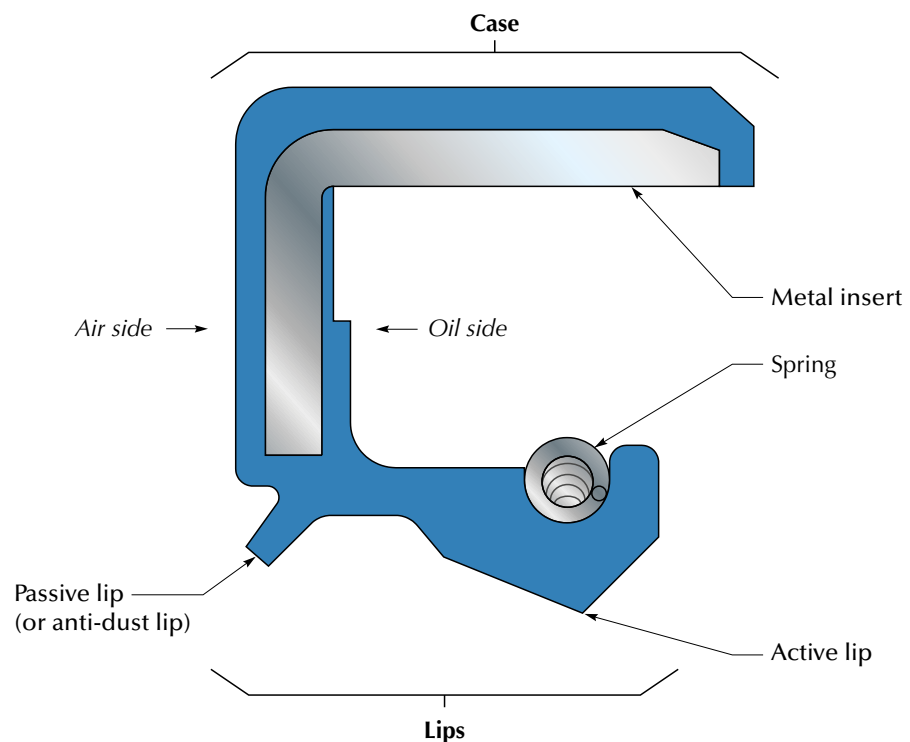
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Introduction

General design of Techné rotary shaft seal

◆ Definition

A rotary shaft seal, makes the sealing possible between a dynamic shaft and fixed housing. It is usually used in motors and transmissions. Designed to be used with mineral and synthetic based oils, and greases.

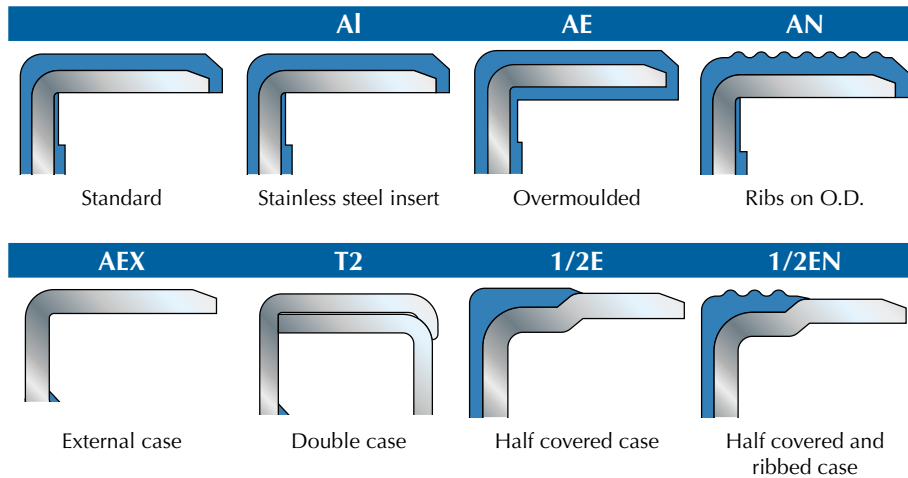


To meet all sealing requirements, a rotary shaft seal has three main components: **case, spring, lip** active (and / or passive). These components must be selected depending on following working conditions :

- Fluids in contact
- Shaft rotation speed
- Temperature
- Pressure
- External pollution.

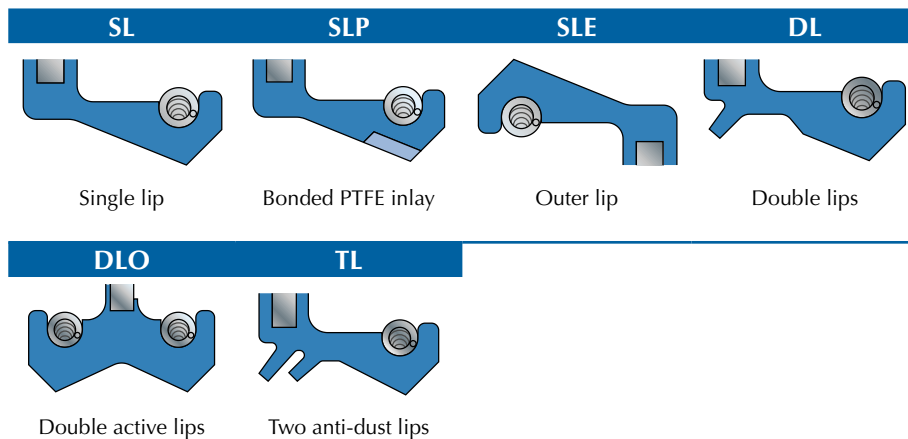
⚙ Cases

Metal case can be selected depending on housing and assembly conditions



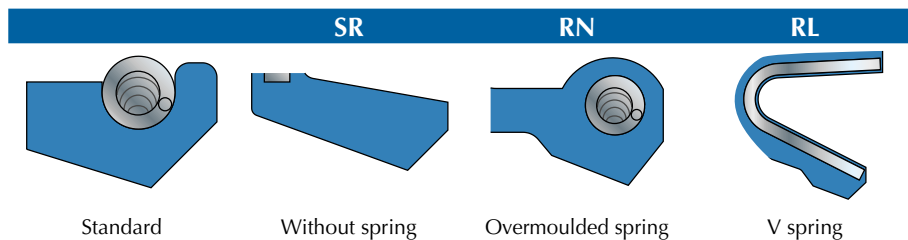
⚙ Lips

Lip can be selected depending on application



⚙ Springs

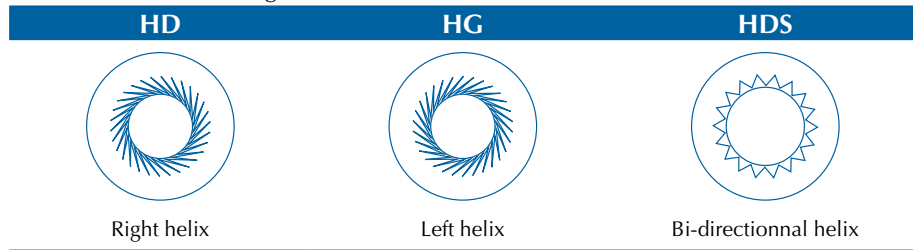
Spring material and type can be selected depending on fluids in contact, shaft tolerances, shaft rotation speed



On demand Techné can provide springs made of special alloys, see spring material page 132.

✦ Helixes

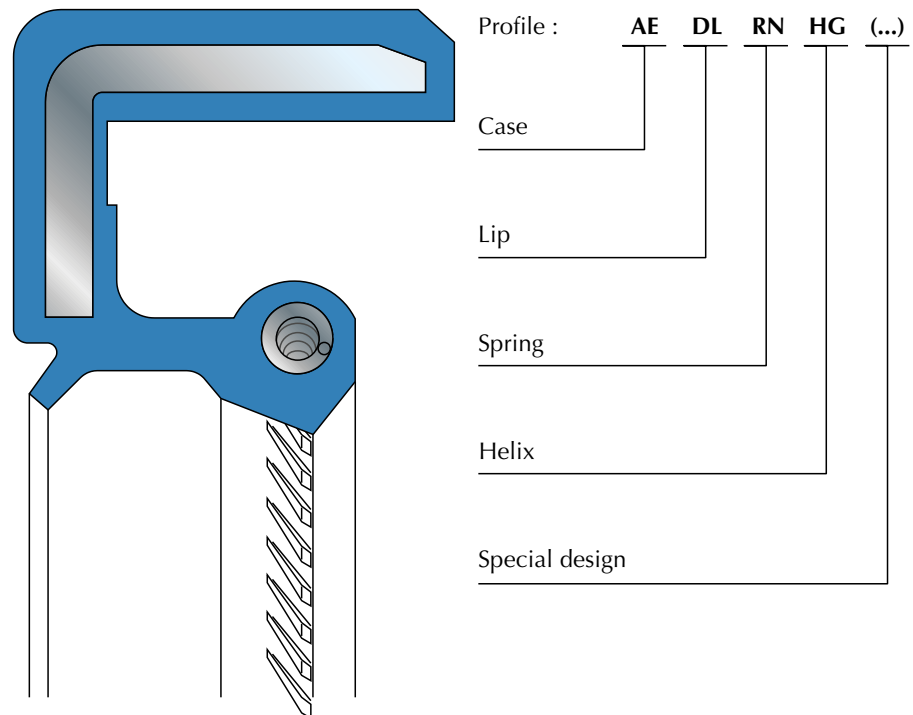
To improve the sealing properties of rotary shaft seals, helixes may be implemented on the lip seals' back (air side). They bring a pumping effect and therefore reject outgoing oil back to the fluid side. Helixes are oriented into the shaft rotating direction. Bi-directional helixes are also possible, although their effectiveness is not so good as unidirectional ones.



✦ Techné designation

Depending on the use of the rotary shaft seal, we can easily find the right designation that meets your requirements.

For example:



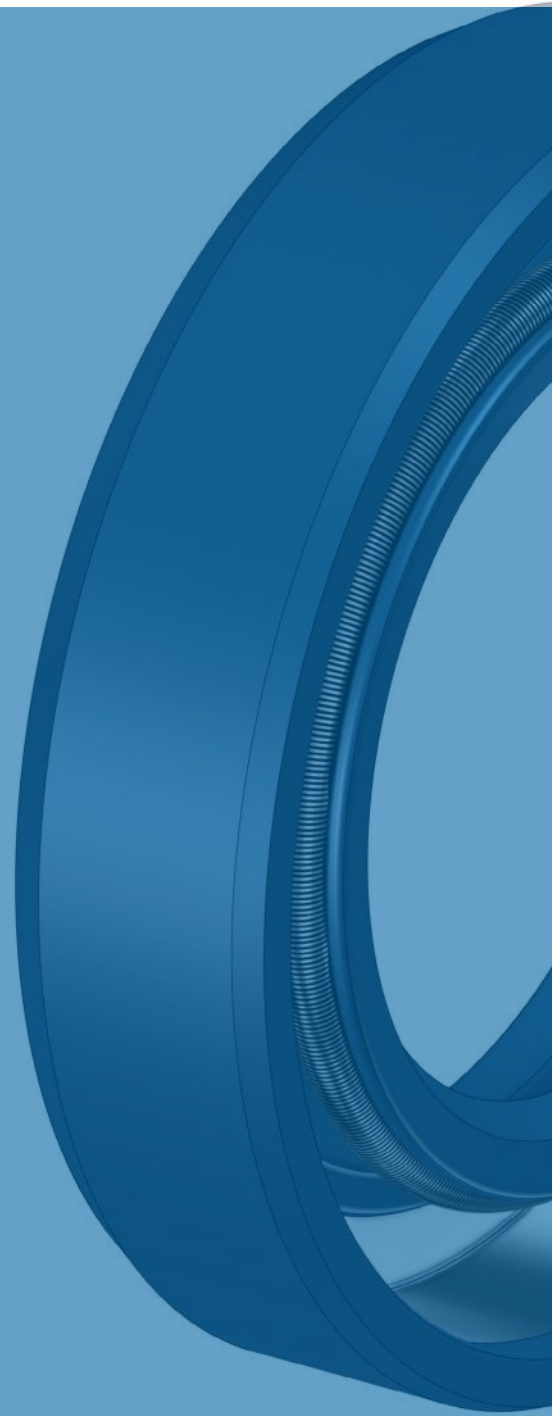
✦ Packagings

Rotary shaft seals are packed depending on dimension, either one by one or in rolls of 10, 20 or 50 pieces.

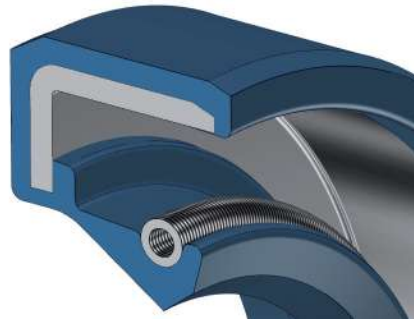
Techné recommends not remove the seals from their packaging until use.

Standard rotary seals

5

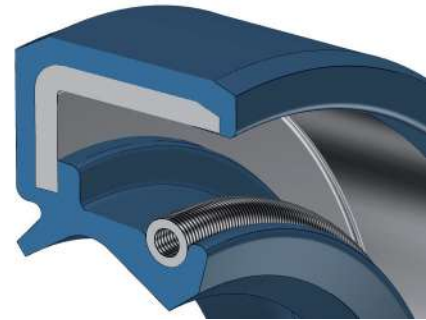


SL & DL



♣ SL

NBR: 22.2100
FKM: 22.2200
VMQ: 22.2400



♣ DL

NBR: 22.2110
FKM: 22.2210
VMQ: 22.2410

1) Description

- Type A & AS according to DIN 3760 / ISO 6194
- Metal case covered with smooth rubber. DL type with an extra passive anti-dust lip.

2) Advantages

- Good static sealing
- Easy fitting & removal (without housing damage)
- Suitable for gas and liquids
- Prevents from a fretting corrosion
- Possible use with fluids under pressure (see page 82)
- Possible use with light alloys housings (with high thermal expansion such as aluminium)
- Possible fitting in split housings

3) Limitations

- For a higher stiffness in the housing, see types AEX, T2 or 1/2E.

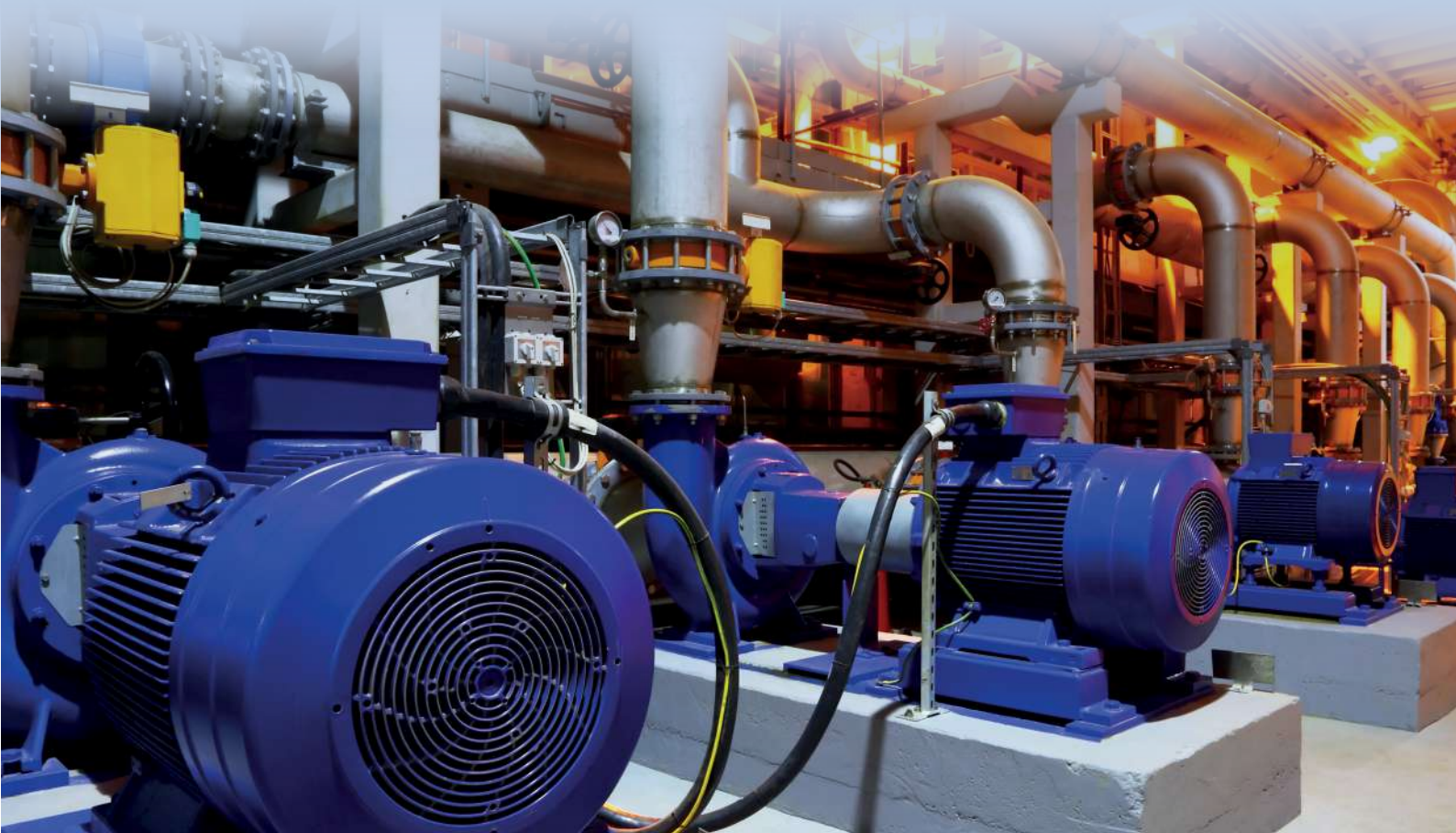
4) Applications

- Most used types in various applications
- Electrical motors, gear boxes, pumps, railroad ...

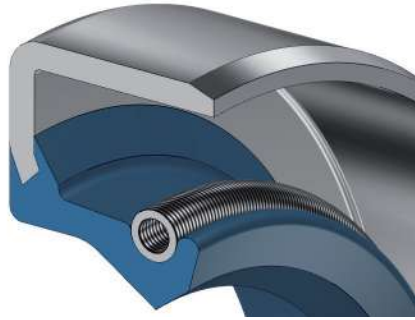
Applications



SL & DL rotary seals are used in various applications such as electrical motors, gear boxes, pumps, railroad, etc.



AEX SL & AEX DL



✦ AEX SL

NBR: 22.2300
FKM: 22.2230



✦ AEX DL

NBR: 22.2140
FKM: 22.2240

1) Description

- Type B & BS according to DIN 3760 / ISO 6194
- Machined outer metal case.
AEX DL type with an extra passive anti-dust lip

2) Advantages

- Good stiffness in the housing
- Avoid spring back of the rotary seal out of housing after fitting
- Suitable for big dimensions
- Precision fitting
- Can be fitted in combination with V-Seals or Axial face seals

3) Limitations

- Possible damage of the housing during fitting & removal (especially with light alloys and soft materials housings)
- Not recommended for housings made of alloys with high thermal expansion (for example light alloys such as aluminum)
- Not recommended for gas & low viscosity fluids
- Not recommended for housings with rough surface
- Possible fretting corrosion
- Fluids under pressure require additional sealant
- Not recommended in split housings

4) Applications

- Heavy machinery, ships...

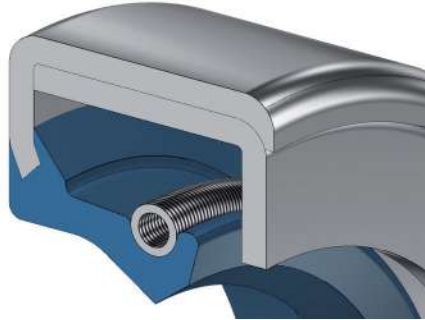
Applications



AEXSL & AEXDL are used in various applications such as heavy machinery, ships, etc.



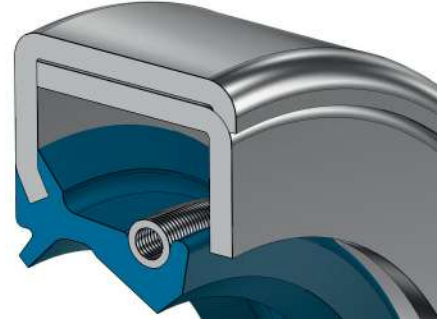
T2 SL & T2 DL



ϕ T2 SL

NBR: 22.2350

FKM: 22.2355



ϕ T2 DL

NBR: 22.2354

FKM: 22.2254

1) Description

- Type C & CS according to DIN 3760 / ISO 6194
- Double outer metal case. T2 DL type with an extra passive anti-dust lip.

2) Advantages

- Excellent stiffness in the housing
- Avoid spring back of the rotary seal out of housing after fitting
- Recommended for big dimensions
- Precision fitting
- Can be fitted in combination with V-Seals or Axial face seals

3) Limitations

- Possible damage of the housing during fitting & removal (especially with light alloys and soft materials housings)
- Not recommended for housings made of alloys with high thermal expansion (for example light alloys such as aluminum)
- Not recommended for gas & low viscosity fluids
- Not recommended for housings with rough surfacee
- Possible fretting corrosion
- Fluids under pressure require additional sealant
- Not recommended in split housings

4) Applications

- Heavy machinery, public works, mills, steel industry

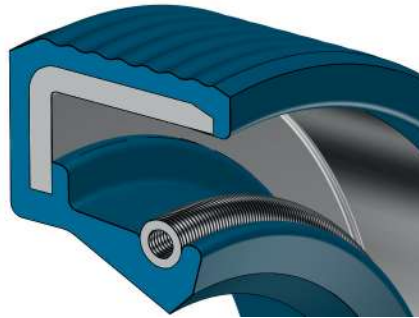
Applications



T2SL & T2DL are used in various applications such as heavy machinery, public works, mills, steel industry, etc.



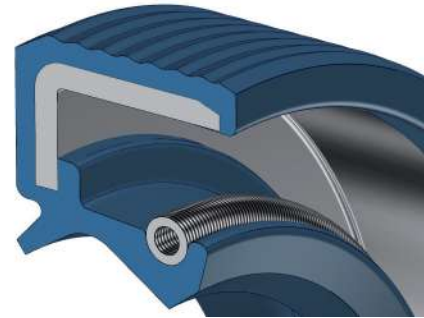
AN SL & AN DL



⌀ AN SL

NBR: 22.2120

FKM: 22.2291



⌀ AN DL

NBR: 22.2121

FKM: 22.2290

1) Description

Metal case covered with rubber additional outer ribs. DL type with an extra passive anti-dust lip.

2) Advantages

- Good static sealing
- Easier fitting & removal (without housing damage)
- Allows a straight aligned fitting
- Prevents rotary seal from springing back from housing
- Suitable for gas and liquids
- Prevents from a fretting corrosion
- Possible use with fluids under pressure (see page 82)
- Recommended with light alloys housings (with high thermal expansion such as aluminium)
- Possible fitting in split housings

3) Limitations

- For a higher stiffness in the housing, see types AEX, T2 or 1/2EN

4) Applications

- Electrical motors, gear boxes, pumps...

Applications



AN SL & AN DL rotary seals are used in various applications such as electrical motors, gear boxes, pumps etc.



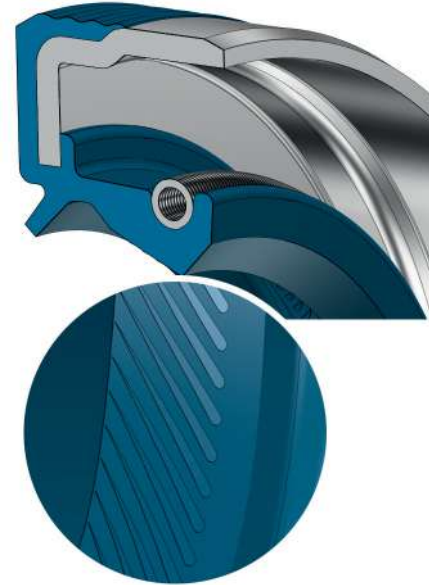
1/2EN DL HD & 1/2EN DL HG



∅ 1/2EN DL HD

FKM: 22.2296

VQM: 22.2496



∅ 1/2EN DL HG

FKM: 22.2295

VMQ: 22.2196

1) Description

- Metal case partially covered with rubber additional outer ribs and helices. DL type with an extra passive anti-dust lip.

2) Advantages

- Good static sealing
- Improved dynamic sealing thanks to helices (see page 4)
- Good stiffness in the housing
- Prevents rotary seal from springing back from housing
- Suitable for gas and liquids
- Possible use with fluids under pressure (see page 82)
- Possible fitting in split housings

3) Limitations

- Possible damage of the housing during fitting & removal (especially with light alloys and soft materials housings)
- Possible fretting corrosion

4) Applications

- Automotive applications, gear boxes, pumps...

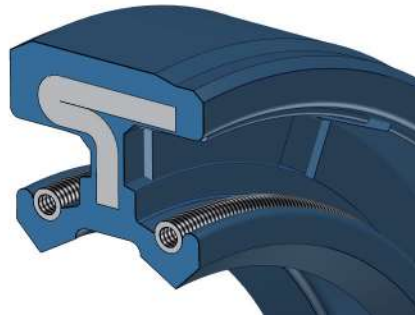
Applications



1/2EN DL HG & 1/2EN DL HD rotary seals are used in various applications such as automotive motors, gear boxes, pumps.



DLO



⌀ DLO

NBR: 22.2011

FKM: 22.2262

1) Description

- Type AD according to DIN 3760 / ISO 6194
- Metal case covered with smooth rubber. Two active lips for separating two different fluids.

2) Advantages

- Good static sealing
- Easy fitting & removal (without housing damage)
- Suitable for gas and liquids
- Prevents from a fretting corrosion
- Possible use with fluids under pressure (see page 82)
- Possible use with light alloys housings (with high thermal expansion such as aluminium)
- Possible fitting in split housings

3) Limitations

- For a higher stiffness in the housing, please see type AE DLO (page 136)

4) Applications

- Food industry, chemicals, etc.

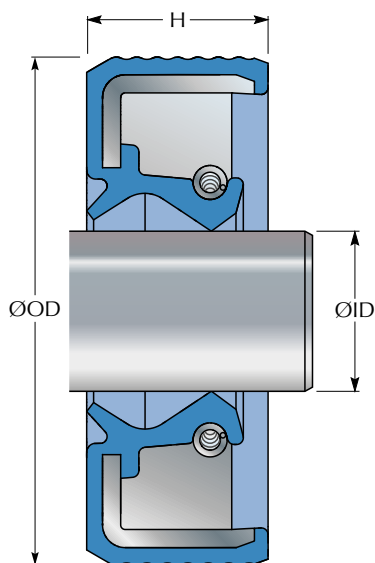
Applications



DLO rotary seals are used in various applications in food and chemical industries.



Dimensional list



| ID | OD | H | Type | Material | Item no. | ID | OD | H | Type | Material | Item no. |
|----|----|---|-----------|----------|---------------------|----|----|---|----------|----------|---------------------|
| 4 | 11 | 6 | SL | NBR | 22.2100.0563 | 7 | 14 | 5 | SL | NBR | 22.2100.7145 |
| 4 | 11 | 6 | SL | FKM | 22.2200.4116 | 7 | 16 | 7 | SL | NBR | 22.2100.0716 |
| 4 | 12 | 6 | SL | NBR | 22.2100.0412 | 7 | 16 | 7 | DL | NBR | 22.2110.7167 |
| 4 | 12 | 6 | SL | FKM | 22.2200.0004 | 7 | 18 | 7 | SL | NBR | 22.2100.0718 |
| 4 | 12 | 6 | DL | FKM | 22.2210.0412 | 7 | 19 | 6 | SL | NBR | 22.2100.7196 |
| 5 | 9 | 2 | AEX SL SR | NBR | 22.2155.0614 | 7 | 22 | 7 | SL | NBR | 22.2100.0734 |
| 5 | 10 | 2 | AN SL SR | NBR | 22.2122.5102 | 8 | 16 | 7 | AEX SL | NBR | 22.2300.0816 |
| 5 | 15 | 6 | SL | NBR | 22.2100.0515 | 8 | 12 | 3 | AN SL SR | NBR | 22.2122.0812 |
| 5 | 15 | 6 | SL | FKM | 22.2200.5156 | 8 | 14 | 3 | SL SR | NBR | 22.2160.0814 |
| 5 | 16 | 7 | SL | FKM | 22.2200.5167 | 8 | 14 | 4 | SL | NBR | 22.2100.0814 |
| 5 | 16 | 7 | DL | NBR | 22.2110.0516 | 8 | 15 | 3 | AN SL SR | NBR | 22.2122.8153 |
| 5 | 19 | 5 | DL | NBR | 22.2110.0519 | 8 | 16 | 6 | DL | NBR | 22.2110.0816 |
| 6 | 10 | 2 | AEX SL SR | NBR | 22.2155.0610 | 8 | 16 | 7 | SL | NBR | 22.2100.0541 |
| 6 | 16 | 7 | AEX SL | NBR | 22.2300.0616 | 8 | 16 | 7 | SL | FKM | 22.2200.0816 |
| 6 | 15 | 4 | SL | NBR | 22.2100.6154 | 8 | 16 | 7 | DL | NBR | 22.2110.8167 |
| 6 | 15 | 4 | SL | FKM | 22.2200.6154 | 8 | 18 | 5 | SL | FKM | 22.2200.8185 |
| 6 | 15 | 6 | SL | NBR | 22.2100.0615 | 8 | 18 | 5 | DL | NBR | 22.2110.0818 |
| 6 | 16 | 5 | SL | NBR | 22.2100.5687 | 8 | 18 | 5 | DL | FKM | 22.2210.0818 |
| 6 | 16 | 5 | SL | FKM | 22.2200.0325 | 8 | 18 | 7 | DL | NBR | 22.2110.1465 |
| 6 | 16 | 5 | DL | FKM | 22.2210.6165 | 8 | 19 | 7 | DL | NBR | 22.2110.0819 |
| 6 | 16 | 6 | SL | NBR | 22.2100.6166 | 8 | 19 | 7 | DL | FKM | 22.2210.0819 |
| 6 | 16 | 6 | SL | FKM | 22.2200.6166 | 8 | 20 | 5 | SL | NBR | 22.2100.8205 |
| 6 | 16 | 7 | SL | NBR | 22.2100.0616 | 8 | 20 | 5 | DL | NBR | 22.2110.8205 |
| 6 | 16 | 7 | SL | FKM | 22.2200.0616 | 8 | 22 | 6 | SL | NBR | 22.2100.0852 |
| 6 | 16 | 7 | DL | NBR | 22.2110.0616 | 8 | 22 | 6 | DL | NBR | 22.2110.8226 |
| 6 | 18 | 6 | SL | NBR | 22.2100.6186 | 8 | 22 | 7 | SL | NBR | 22.2100.0822 |
| 6 | 19 | 6 | SL | NBR | 22.2100.6196 | 8 | 22 | 7 | SL | FKM | 22.2200.0822 |
| 6 | 19 | 7 | SL | NBR | 22.2100.2161 | 8 | 22 | 7 | DL | NBR | 22.2110.8227 |
| 6 | 19 | 7 | SL | FKM | 22.2200.6197 | 8 | 22 | 7 | DL | FKM | 22.2210.0822 |
| 7 | 11 | 2 | AEX SL SR | NBR | 22.2155.7112 | 8 | 22 | 8 | SL | NBR | 22.2100.0145 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|----|----|-----|-----------|----------|---------------------|
| 8 | 24 | 7 | SL | NBR | 22.2100.8247 |
| 8 | 25 | 7 | DL | NBR | 22.2110.8257 |
| 9 | 13 | 3 | AN SL SR | NBR | 22.2122.9133 |
| 9 | 16 | 5 | SL | NBR | 22.2100.9165 |
| 9 | 18 | 7 | SL | NBR | 22.2100.9187 |
| 9 | 18 | 7 | SL | FKM | 22.2200.9187 |
| 9 | 19 | 4 | SL | NBR | 22.2100.9194 |
| 9 | 19 | 5 | DL | NBR | 22.2110.0919 |
| 9 | 22 | 7 | SL | NBR | 22.2100.0922 |
| 9 | 22 | 7 | DL | NBR | 22.2110.0922 |
| 9 | 24 | 7 | SL | NBR | 22.2100.9247 |
| 9 | 25 | 8 | SL | FKM | 22.2200.9258 |
| 10 | 17 | 5 | AEX SL | NBR | 22.2300.1017 |
| 10 | 19 | 7 | AEX SL | NBR | 22.2300.1019 |
| 10 | 14 | 3 | AN SL SR | NBR | 22.2122.1014 |
| 10 | 16 | 4 | SL SR | NBR | 22.2160.1016 |
| 10 | 16 | 4 | SL | NBR | 22.2100.1614 |
| 10 | 16 | 4 | SL | FKM | 22.2200.1016 |
| 10 | 16 | 5 | SL | NBR | 22.2100.1016 |
| 10 | 17 | 3 | AN SL SR | NBR | 22.2122.1017 |
| 10 | 18 | 4 | SL | NBR | 22.2100.0459 |
| 10 | 18 | 4 | SL | FKM | 22.2200.1018 |
| 10 | 18 | 5 | SL | NBR | 22.2100.1018 |
| 10 | 18 | 6 | SL | NBR | 22.2100.5554 |
| 10 | 18 | 6 | DL | NBR | 22.2110.1018 |
| 10 | 18 | 6 | DL | FKM | 22.2210.1018 |
| 10 | 19 | 3,5 | SL | NBR | 22.2100.0879 |
| 10 | 19 | 7 | SL | NBR | 22.2100.0140 |
| 10 | 19 | 7 | SL | FKM | 22.2200.1019 |
| 10 | 19 | 7 | DL | NBR | 22.2110.1019 |
| 10 | 19 | 7 | DL | FKM | 22.2210.1019 |
| 10 | 20 | 5 | SL | NBR | 22.2100.0332 |
| 10 | 20 | 5 | DL | NBR | 22.2110.1020 |
| 10 | 20 | 6 | DL | NBR | 22.2110.1260 |
| 10 | 20 | 7 | SL | NBR | 22.2100.0004 |
| 10 | 20 | 7 | DL | NBR | 22.2110.0107 |
| 10 | 22 | 4 | DL | NBR | 22.2110.0054 |
| 10 | 22 | 5 | DL | NBR | 22.2110.0105 |
| 10 | 22 | 6 | DL | NBR | 22.2110.6574 |
| 10 | 22 | 7 | SL | NBR | 22.2100.1023 |
| 10 | 14 | 3 | AEX SL SR | NBR | 22.2155.0047 |
| 10 | 22 | 7 | SL | FKM | 22.2200.0094 |
| 10 | 22 | 7 | DL | NBR | 22.2110.1022 |
| 10 | 22 | 7 | DL | FKM | 22.2210.1022 |
| 10 | 22 | 8 | SL | NBR | 22.2100.1022 |
| 10 | 22 | 8 | SL | FKM | 22.2200.1084 |

| ID | OD | H | Type | Material | Item no. |
|-------|------|------|-----------|----------|---------------------|
| 10 | 24 | 7 | SL | NBR | 22.2100.1024 |
| 10 | 24 | 7 | SL | FKM | 22.2200.1024 |
| 10 | 24 | 7 | DL | NBR | 22.2110.1024 |
| 10 | 25 | 7 | DL | NBR | 22.2110.1025 |
| 10 | 25 | 8 | SL | NBR | 22.2100.1025 |
| 10 | 25 | 8 | DL | NBR | 22.2110.2510 |
| 10 | 26 | 7 | SL | NBR | 22.2100.1026 |
| 10 | 26 | 7 | SL | FKM | 22.2200.1265 |
| 10 | 26 | 7 | DL | NBR | 22.2110.1026 |
| 10 | 26 | 7 | DL | FKM | 22.2210.1265 |
| 10 | 28 | 7 | SL | NBR | 22.2100.1028 |
| 10 | 28 | 7 | DL | NBR | 22.2110.1028 |
| 10 | 30 | 7 | SL | NBR | 22.2100.1030 |
| 10 | 30 | 7 | SL | FKM | 22.2200.1030 |
| 10 | 30 | 7 | DL | FKM | 22.2210.1030 |
| 11 | 17 | 4 | SL | NBR | 22.2100.1117 |
| 11 | 17 | 4 | DL | NBR | 22.2110.1117 |
| 11 | 19 | 6 | DL | NBR | 22.2110.1119 |
| 11 | 21 | 8 | DL | NBR | 22.2110.1121 |
| 11 | 22 | 7 | SL | NBR | 22.2100.1122 |
| 11 | 22 | 7 | SL | FKM | 22.2200.1122 |
| 11 | 22 | 7 | DL | NBR | 22.2110.1122 |
| 11 | 23 | 8 | SL | NBR | 22.2100.1123 |
| 11 | 26 | 7 | SL | NBR | 22.2100.1127 |
| 11 | 26 | 7 | SL | FKM | 22.2200.5421 |
| 11 | 30 | 7 | DL | FKM | 22.2210.1131 |
| 11,11 | 25,4 | 9,52 | AEX SL | NBR | 22.2300.1252 |
| 12 | 18 | 4 | AEX SL | NBR | 22.2300.0124 |
| 12 | 19 | 3 | AEX SL SR | NBR | 22.2155.1219 |
| 12 | 19 | 5 | AEX SL | NBR | 22.2300.1219 |
| 12 | 20 | 5 | AEX SL SR | FKM | 22.2250.1220 |
| 12 | 21 | 5 | AEX DL | NBR | 22.2140.1221 |
| 12 | 22 | 7 | AEX SL | NBR | 22.2300.1222 |
| 12 | 25 | 5 | AEX SL | NBR | 22.2300.1225 |
| 12 | 28 | 7 | AEX DL | NBR | 22.2140.1228 |
| 12 | 30 | 5 | AEX SL | NBR | 22.2300.1230 |
| 12 | 30 | 7 | AEX DL | NBR | 22.2140.1230 |
| 12 | 32 | 7 | AEX DL | NBR | 22.2140.1232 |
| 12 | 16 | 3 | AN SL SR | NBR | 22.2122.1216 |
| 12 | 17 | 4 | SL | FKM | 22.2200.0124 |
| 12 | 18 | 3 | AN SL SR | NBR | 22.2122.1218 |
| 12 | 18 | 4 | SL SR | NBR | 22.2160.0055 |
| 12 | 18 | 4 | SL | FKM | 22.2200.0152 |
| 12 | 18 | 5 | SL | NBR | 22.2100.0654 |
| 12 | 18 | 5 | DL | NBR | 22.2110.1218 |
| 12 | 19 | 3 | AN SL SR | NBR | 22.2122.1219 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|----|----|-----|------|----------|---------------------|
| 12 | 19 | 4 | SL | NBR | 22.2100.1219 |
| 12 | 19 | 5 | SL | NBR | 22.2100.1212 |
| 12 | 19 | 5 | SL | FKM | 22.2200.1219 |
| 12 | 19 | 5 | DL | NBR | 22.2110.1219 |
| 12 | 20 | 4 | DL | NBR | 22.2110.1220 |
| 12 | 20 | 5 | SL | NBR | 22.2100.1824 |
| 12 | 20 | 5 | DL | NBR | 22.2110.0057 |
| 12 | 20 | 5 | DL | FKM | 22.2210.1220 |
| 12 | 21 | 4 | SL | NBR | 22.2100.1234 |
| 12 | 22 | 4 | SL | NBR | 22.2100.1222 |
| 12 | 22 | 4 | SL | FKM | 22.2200.0122 |
| 12 | 22 | 5 | SL | NBR | 22.2100.1220 |
| 12 | 22 | 5 | DL | NBR | 22.2110.0125 |
| 12 | 22 | 6 | SL | NBR | 22.2100.0157 |
| 12 | 22 | 6 | DL | NBR | 22.2110.0126 |
| 12 | 22 | 6,5 | SL | NBR | 22.2100.0709 |
| 12 | 22 | 7 | SL | NBR | 22.2100.1224 |
| 12 | 22 | 7 | SL | FKM | 22.2200.1222 |
| 12 | 22 | 7 | DL | NBR | 22.2110.1224 |
| 12 | 22 | 7 | DL | FKM | 22.2210.1222 |
| 12 | 22 | 8 | SL | FKM | 22.2200.4728 |
| 12 | 22 | 8 | DL | NBR | 22.2110.0128 |
| 12 | 22 | 9 | DL | NBR | 22.2110.0129 |
| 12 | 23 | 8 | DL | NBR | 22.2110.1223 |
| 12 | 24 | 4,5 | SL | NBR | 22.2100.5644 |
| 12 | 24 | 6 | SL | NBR | 22.2100.5223 |
| 12 | 24 | 6 | SL | FKM | 22.2200.8445 |
| 12 | 24 | 6 | DL | NBR | 22.2110.8549 |
| 12 | 24 | 7 | SL | NBR | 22.2100.0012 |
| 12 | 24 | 7 | SL | FKM | 22.2200.1224 |
| 12 | 24 | 7 | DL | NBR | 22.2110.0154 |
| 12 | 24 | 7 | DL | FKM | 22.2210.1224 |
| 12 | 25 | 5 | SL | NBR | 22.2100.1225 |
| 12 | 25 | 5 | DL | NBR | 22.2110.0948 |
| 12 | 25 | 7 | DL | NBR | 22.2110.1225 |
| 12 | 25 | 8 | SL | NBR | 22.2100.4225 |
| 12 | 25 | 8 | DL | NBR | 22.2110.0001 |
| 12 | 26 | 4,5 | DL | NBR | 22.2110.0843 |
| 12 | 26 | 7 | SL | NBR | 22.2100.1207 |
| 12 | 26 | 7 | SL | FKM | 22.2200.1226 |
| 12 | 26 | 7 | DL | NBR | 22.2110.0002 |
| 12 | 26 | 8 | SL | NBR | 22.2100.4287 |
| 12 | 26 | 8 | SL | FKM | 22.2200.0471 |
| 12 | 26 | 8 | DL | NBR | 22.2110.7458 |
| 12 | 28 | 5 | SL | NBR | 22.2100.1541 |
| 12 | 28 | 7 | SL | NBR | 22.2100.0908 |

| ID | OD | H | Type | Material | Item no. |
|------|-------|------|----------|----------|---------------------|
| 12 | 28 | 7 | SL | NBR | 22.2100.1574 |
| 12 | 28 | 7 | SL | FKM | 22.2200.1228 |
| 12 | 28 | 7 | DL | NBR | 22.2110.1228 |
| 12 | 28 | 7 | DL | FKM | 22.2210.1228 |
| 12 | 28 | 8 | SL | NBR | 22.2100.1228 |
| 12 | 28 | 8 | DL | NBR | 22.2110.4738 |
| 12 | 28 | 10 | DL | FKM | 22.2210.0229 |
| 12 | 30 | 6 | SL | NBR | 22.2100.1236 |
| 12 | 30 | 7 | SL | NBR | 22.2100.1230 |
| 12 | 30 | 7 | SL | FKM | 22.2200.1230 |
| 12 | 30 | 7 | DL | NBR | 22.2110.1230 |
| 12 | 30 | 7 | DL | FKM | 22.2210.1230 |
| 12 | 30 | 9 | DL | NBR | 22.2110.1231 |
| 12 | 32 | 5 | SL | NBR | 22.2100.5248 |
| 12 | 32 | 7 | SL | NBR | 22.2100.1232 |
| 12 | 32 | 7 | SL | FKM | 22.2200.1232 |
| 12 | 32 | 7 | DL | NBR | 22.2110.1232 |
| 12 | 32 | 10 | SL | NBR | 22.2100.9654 |
| 12,7 | 25,4 | 6,35 | AEX SL | NBR | 22.2300.1274 |
| 12,7 | 28,58 | 6,35 | AEX DL | NBR | 22.2140.1271 |
| 12,7 | 34,92 | 6,35 | AEX SL | NBR | 22.2300.1273 |
| 13 | 19 | 3 | AN SL SR | NBR | 22.2122.1319 |
| 13 | 22 | 5 | SL | NBR | 22.2100.1322 |
| 13 | 22 | 5 | DL | NBR | 22.2110.3225 |
| 13 | 22 | 6 | SL | NBR | 22.2100.5145 |
| 13 | 24 | 7 | SL | NBR | 22.2100.7554 |
| 13 | 25 | 5 | DL | NBR | 22.2110.0185 |
| 13 | 25 | 7 | SL | NBR | 22.2100.2451 |
| 13 | 26 | 5 | SL | NBR | 22.2100.1542 |
| 13 | 26 | 7 | DL | NBR | 22.2110.1326 |
| 13 | 28 | 7 | DL | NBR | 22.2110.1328 |
| 13 | 30 | 7 | SL | NBR | 22.2100.1330 |
| 13 | 30 | 7 | SL | FKM | 22.2200.1330 |
| 13 | 30 | 8 | SL | FKM | 22.2200.1380 |
| 13 | 30 | 8 | DL | NBR | 22.2110.5664 |
| 14 | 28 | 7 | AEX SL | NBR | 22.2300.1428 |
| 14 | 20 | 3 | AN SL SR | NBR | 22.2122.1420 |
| 14 | 22 | 4 | SL | NBR | 22.2100.0074 |
| 14 | 22 | 4 | SL | FKM | 22.2200.1422 |
| 14 | 22 | 4 | DL | NBR | 22.2110.1422 |
| 14 | 22 | 5 | SL | NBR | 22.2100.0014 |
| 14 | 22 | 5 | DL | NBR | 22.2110.0422 |
| 14 | 22 | 7 | SL | NBR | 22.2100.1423 |
| 14 | 22 | 7 | DL | NBR | 22.2110.0147 |
| 14 | 24 | 5 | SL | NBR | 22.2100.5313 |
| 14 | 24 | 6 | SL | NBR | 22.2100.0474 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|----|----|-----|----------|----------|---------------------|
| 14 | 24 | 7 | SL | NBR | 22.2100.1424 |
| 14 | 24 | 7 | DL | NBR | 22.2110.1424 |
| 14 | 24 | 7 | DL | FKM | 22.2210.1424 |
| 14 | 25 | 5 | SL | NBR | 22.2100.1425 |
| 14 | 25 | 6 | SL | NBR | 22.2100.1426 |
| 14 | 25 | 7 | SL | FKM | 22.2200.1425 |
| 14 | 26 | 6 | DL | NBR | 22.2110.0146 |
| 14 | 26 | 7 | SL | NBR | 22.2100.0726 |
| 14 | 26 | 7 | DL | NBR | 22.2110.0276 |
| 14 | 27 | 7 | SL | FKM | 22.2200.1427 |
| 14 | 27 | 7 | DL | NBR | 22.2110.1458 |
| 14 | 28 | 7 | SL | NBR | 22.2100.1428 |
| 14 | 28 | 7 | DL | NBR | 22.2110.0728 |
| 14 | 28 | 7 | DL | FKM | 22.2210.1428 |
| 14 | 30 | 4,5 | SL | FKM | 22.2200.1445 |
| 14 | 30 | 7 | SL | NBR | 22.2100.0307 |
| 14 | 30 | 7 | SL | FKM | 22.2200.1430 |
| 14 | 30 | 7 | DL | NBR | 22.2110.3007 |
| 14 | 30 | 10 | DL | NBR | 22.2110.3010 |
| 14 | 32 | 7 | DL | NBR | 22.2110.3207 |
| 14 | 35 | 7 | DL | NBR | 22.2110.0143 |
| 15 | 21 | 4 | AEX DL | NBR | 22.2140.0118 |
| 15 | 24 | 7 | AEX DL | NBR | 22.2140.2407 |
| 15 | 25 | 7 | AEX DL | NBR | 22.2140.1525 |
| 15 | 26 | 9 | AEX DL | NBR | 22.2140.1526 |
| 15 | 30 | 8 | AEX SL | NBR | 22.2300.1538 |
| 15 | 21 | 3 | AN SL SR | NBR | 22.2122.1521 |
| 15 | 21 | 4 | SL | NBR | 22.2100.1521 |
| 15 | 21 | 4 | SL | FKM | 22.2200.1521 |
| 15 | 21 | 5 | SL | NBR | 22.2100.2115 |
| 15 | 22 | 5 | DL | NBR | 22.2110.0225 |
| 15 | 22 | 5 | DL | FKM | 22.2210.1522 |
| 15 | 23 | 3 | AN SL SR | NBR | 22.2122.1523 |
| 15 | 24 | 5 | SL | NBR | 22.2100.0245 |
| 15 | 24 | 5 | SL | FKM | 22.2200.5410 |
| 15 | 24 | 5 | DL | NBR | 22.2110.2415 |
| 15 | 24 | 7 | SL | NBR | 22.2100.1524 |
| 15 | 24 | 7 | SL | FKM | 22.2200.1524 |
| 15 | 24 | 7 | DL | NBR | 22.2110.1524 |
| 15 | 24 | 7 | DL | FKM | 22.2210.1524 |
| 15 | 25 | 5 | SL | NBR | 22.2100.1525 |
| 15 | 25 | 5 | DL | NBR | 22.2110.1525 |
| 15 | 25 | 6 | DL | NBR | 22.2110.0256 |
| 15 | 25 | 7 | SL | NBR | 22.2100.1554 |
| 15 | 25 | 7 | DL | NBR | 22.2110.0752 |
| 15 | 26 | 4,5 | SL | NBR | 22.2100.2645 |

| ID | OD | H | Type | Material | Item no. |
|----|----|-----|------|----------|---------------------|
| 15 | 26 | 4,5 | DL | NBR | 22.2110.1526 |
| 15 | 26 | 6 | SL | NBR | 22.2100.1566 |
| 15 | 26 | 7 | SL | NBR | 22.2100.0267 |
| 15 | 26 | 7 | SL | FKM | 22.2200.1526 |
| 15 | 26 | 7 | DL | NBR | 22.2110.0726 |
| 15 | 26 | 7 | DL | FKM | 22.2210.1526 |
| 15 | 27 | 7 | SL | NBR | 22.2100.0772 |
| 15 | 27 | 7 | DL | NBR | 22.2110.0772 |
| 15 | 28 | 4 | SL | NBR | 22.2100.1528 |
| 15 | 28 | 4 | DL | NBR | 22.2110.0348 |
| 15 | 28 | 5 | SL | NBR | 22.2100.0053 |
| 15 | 28 | 6 | DL | NBR | 22.2110.0682 |
| 15 | 28 | 7 | SL | NBR | 22.2100.0782 |
| 15 | 28 | 7 | SL | FKM | 22.2200.1528 |
| 15 | 28 | 7 | DL | NBR | 22.2110.0872 |
| 15 | 28 | 7 | DL | FKM | 22.2210.1528 |
| 15 | 30 | 4,5 | SL | NBR | 22.2100.0453 |
| 15 | 30 | 4,5 | SL | FKM | 22.2200.0159 |
| 15 | 30 | 4,5 | DL | FKM | 22.2210.1530 |
| 15 | 30 | 5 | SL | NBR | 22.2100.0503 |
| 15 | 30 | 5 | DL | NBR | 22.2110.0155 |
| 15 | 30 | 6 | SL | FKM | 22.2200.0156 |
| 15 | 30 | 6 | DL | NBR | 22.2110.0712 |
| 15 | 30 | 7 | SL | NBR | 22.2100.0878 |
| 15 | 30 | 7 | SL | NBR | 22.2100.1500 |
| 15 | 30 | 7 | SL | FKM | 22.2200.1537 |
| 15 | 30 | 7 | DL | NBR | 22.2110.1530 |
| 15 | 30 | 7 | DL | FKM | 22.2210.5158 |
| 15 | 30 | 8 | DL | NBR | 22.2110.3008 |
| 15 | 30 | 10 | SL | NBR | 22.2100.1235 |
| 15 | 30 | 10 | SL | FKM | 22.2200.1530 |
| 15 | 32 | 4 | SL | NBR | 22.2100.0902 |
| 15 | 32 | 5 | DL | NBR | 22.2110.0325 |
| 15 | 32 | 5,5 | SL | NBR | 22.2100.3255 |
| 15 | 32 | 7 | SL | NBR | 22.2100.1532 |
| 15 | 32 | 7 | SL | FKM | 22.2200.1532 |
| 15 | 32 | 7 | DL | NBR | 22.2110.0732 |
| 15 | 35 | 5 | SL | FKM | 22.2200.0041 |
| 15 | 35 | 6 | SL | NBR | 22.2100.1560 |
| 15 | 35 | 6 | DL | NBR | 22.2110.0156 |
| 15 | 35 | 7 | SL | NBR | 22.2100.0155 |
| 15 | 35 | 7 | SL | FKM | 22.2200.1535 |
| 15 | 35 | 7 | DL | NBR | 22.2110.1035 |
| 15 | 35 | 7 | DL | FKM | 22.2210.0153 |
| 15 | 35 | 8 | SL | NBR | 22.2100.0853 |
| 15 | 35 | 8 | DL | NBR | 22.2110.0853 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|-------|-------|------|----------|----------|---------------------|
| 15 | 35 | 10 | SL | FKM | 22.2200.1510 |
| 15 | 35 | 10 | DL | NBR | 22.2110.3510 |
| 15 | 36 | 7 | DL | NBR | 22.2110.0157 |
| 15 | 36 | 7 | DL | FKM | 22.2210.1536 |
| 15 | 37 | 7 | SL | FKM | 22.2200.8487 |
| 15 | 37 | 7 | DL | NBR | 22.2110.0377 |
| 15 | 38 | 8 | SL | FKM | 22.2200.1538 |
| 15 | 40 | 8 | DL | NBR | 22.2110.4008 |
| 15 | 40 | 10 | SL | NBR | 22.2100.1540 |
| 15 | 40 | 10 | DL | NBR | 22.2110.4010 |
| 15 | 42 | 7 | SL | NBR | 22.2100.0427 |
| 15 | 42 | 7 | DL | NBR | 22.2110.0427 |
| 15 | 42 | 8 | DL | NBR | 22.2110.0428 |
| 15 | 42 | 10 | SL | NBR | 22.2100.4210 |
| 15,88 | 34,92 | 6,35 | AEX SL | NBR | 22.2300.1583 |
| 16 | 22 | 4 | AEX SL | NBR | 22.2300.1624 |
| 16 | 24 | 4 | AEX SL | NBR | 22.2300.0244 |
| 16 | 26 | 7 | AEX SL | NBR | 22.2300.1626 |
| 16 | 28 | 7 | AEX DL | NBR | 22.2140.1628 |
| 16 | 32 | 7 | AEX SL | NBR | 22.2300.0327 |
| 16 | 21 | 4,5 | SL SR | NBR | 22.2160.1621 |
| 16 | 22 | 3 | AN SL SR | NBR | 22.2122.1622 |
| 16 | 22 | 4 | SL | NBR | 22.2100.0224 |
| 16 | 22 | 4 | DL | NBR | 22.2110.1622 |
| 16 | 24 | 3 | AN SL SR | NBR | 22.2122.1624 |
| 16 | 24 | 4 | SL | NBR | 22.2100.0109 |
| 16 | 24 | 4 | DL | FKM | 22.2210.1624 |
| 16 | 24 | 5 | SL | NBR | 22.2100.0542 |
| 16 | 24 | 5 | SL | FKM | 22.2200.0164 |
| 16 | 24 | 6 | DL | NBR | 22.2110.2465 |
| 16 | 24 | 6,5 | DL | NBR | 22.2110.1665 |
| 16 | 24 | 7 | SL | NBR | 22.2100.1624 |
| 16 | 24 | 7 | DL | NBR | 22.2110.1624 |
| 16 | 24 | 7 | DL | FKM | 22.2210.0077 |
| 16 | 25 | 3 | AN SL SR | NBR | 22.2122.1625 |
| 16 | 25 | 7 | SL | NBR | 22.2100.1625 |
| 16 | 26 | 4 | SL | NBR | 22.2100.2604 |
| 16 | 26 | 4,5 | SL SR | NBR | 22.2160.1626 |
| 16 | 26 | 5 | SL | NBR | 22.2100.1626 |
| 16 | 26 | 7 | SL | NBR | 22.2100.0276 |
| 16 | 26 | 7 | SL | FKM | 22.2200.8746 |
| 16 | 26 | 7 | DL | NBR | 22.2110.1626 |
| 16 | 26 | 8 | DL | NBR | 22.2110.0162 |
| 16 | 28 | 6 | SL | NBR | 22.2100.0046 |
| 16 | 28 | 7 | SL | NBR | 22.2100.0162 |
| 16 | 28 | 7 | DL | NBR | 22.2110.1628 |

| ID | OD | H | Type | Material | Item no. |
|----|----|-----|----------|----------|---------------------|
| 16 | 28 | 7 | DL | FKM | 22.2210.1628 |
| 16 | 30 | 4,5 | SL | NBR | 22.2100.1630 |
| 16 | 30 | 7 | SL | NBR | 22.2100.7030 |
| 16 | 30 | 7 | SL | FKM | 22.2200.1630 |
| 16 | 30 | 7 | DL | NBR | 22.2110.7030 |
| 16 | 30 | 7 | DL | FKM | 22.2210.0163 |
| 16 | 32 | 6 | SL | NBR | 22.2100.1632 |
| 16 | 32 | 7 | SL | NBR | 22.2100.0027 |
| 16 | 32 | 7 | DL | NBR | 22.2110.0327 |
| 16 | 32 | 8 | SL | NBR | 22.2100.0136 |
| 16 | 32 | 10 | SL | NBR | 22.2100.1032 |
| 16 | 35 | 7 | SL | FKM | 22.2200.1635 |
| 16 | 35 | 7 | DL | NBR | 22.2110.0357 |
| 16 | 35 | 10 | SL | FKM | 22.2200.1610 |
| 16 | 40 | 10 | SL | NBR | 22.2100.1040 |
| 16 | 40 | 10 | DL | NBR | 22.2110.1040 |
| 16 | 42 | 6 | SL | NBR | 22.2100.1642 |
| 17 | 33 | 7 | AEX SL | NBR | 22.2300.1733 |
| 17 | 35 | 10 | AEX DL | NBR | 22.2140.0710 |
| 17 | 40 | 10 | T2 SL | NBR | 22.2350.1740 |
| 17 | 23 | 3 | AN SL SR | NBR | 22.2122.1723 |
| 17 | 24 | 5 | SL | FKM | 22.2200.1724 |
| 17 | 24 | 7 | SL | FKM | 22.2200.0018 |
| 17 | 25 | 4 | SL | NBR | 22.2100.1725 |
| 17 | 25 | 7 | SL | NBR | 22.2100.0572 |
| 17 | 26 | 6 | SL | NBR | 22.2100.1726 |
| 17 | 27 | 5 | SL | NBR | 22.2100.0037 |
| 17 | 27 | 6 | SL | FKM | 22.2200.1727 |
| 17 | 27 | 10 | DL | NBR | 22.2110.2710 |
| 17 | 28 | 5 | SL | FKM | 22.2200.0175 |
| 17 | 28 | 5 | DL | NBR | 22.2110.1728 |
| 17 | 28 | 6 | SL | NBR | 22.2100.1728 |
| 17 | 28 | 6 | DL | NBR | 22.2110.0286 |
| 17 | 28 | 6 | DL | FKM | 22.2210.5364 |
| 17 | 28 | 7 | SL | NBR | 22.2100.0017 |
| 17 | 28 | 7 | SL | FKM | 22.2200.1728 |
| 17 | 28 | 7 | DL | NBR | 22.2110.0287 |
| 17 | 28 | 7 | DL | FKM | 22.2210.1728 |
| 17 | 28 | 8 | SL | FKM | 22.2200.2314 |
| 17 | 29 | 5 | DL | NBR | 22.2110.0175 |
| 17 | 29 | 7 | DL | NBR | 22.2110.0177 |
| 17 | 30 | 5 | SL | NBR | 22.2100.0005 |
| 17 | 30 | 6 | SL | NBR | 22.2100.0630 |
| 17 | 30 | 6 | DL | NBR | 22.2110.3006 |
| 17 | 30 | 7 | SL | NBR | 22.2100.1730 |
| 17 | 30 | 7 | SL | FKM | 22.2200.1730 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|----|----|----|------|----------|---------------------|
| 17 | 30 | 7 | DL | NBR | 22.2110.0073 |
| 17 | 30 | 8 | SL | FKM | 22.2200.0441 |
| 17 | 30 | 8 | DL | NBR | 22.2110.0830 |
| 17 | 30 | 10 | DL | NBR | 22.2110.1730 |
| 17 | 32 | 5 | SL | NBR | 22.2100.2089 |
| 17 | 32 | 5 | SL | FKM | 22.2200.1732 |
| 17 | 32 | 5 | DL | NBR | 22.2110.3205 |
| 17 | 32 | 6 | DL | NBR | 22.2110.1732 |
| 17 | 32 | 7 | SL | NBR | 22.2100.0732 |
| 17 | 32 | 7 | SL | FKM | 22.2200.1702 |
| 17 | 32 | 7 | DL | NBR | 22.2110.0702 |
| 17 | 32 | 8 | SL | NBR | 22.2100.0832 |
| 17 | 32 | 8 | SL | FKM | 22.2200.0174 |
| 17 | 32 | 8 | DL | NBR | 22.2110.0238 |
| 17 | 32 | 10 | SL | NBR | 22.2100.2130 |
| 17 | 33 | 8 | SL | NBR | 22.2100.0009 |
| 17 | 33 | 8 | DL | NBR | 22.2110.1733 |
| 17 | 34 | 4 | SL | NBR | 22.2100.1734 |
| 17 | 35 | 5 | SL | NBR | 22.2100.0173 |
| 17 | 35 | 6 | SL | NBR | 22.2100.0365 |
| 17 | 35 | 7 | SL | NBR | 22.2100.1735 |
| 17 | 35 | 7 | SL | FKM | 22.2200.1735 |
| 17 | 35 | 7 | DL | NBR | 22.2110.7530 |
| 17 | 35 | 8 | SL | NBR | 22.2100.1700 |
| 17 | 35 | 8 | SL | FKM | 22.2200.5585 |
| 17 | 35 | 8 | DL | NBR | 22.2110.5830 |
| 17 | 35 | 8 | DL | FKM | 22.2210.0234 |
| 17 | 35 | 10 | SL | NBR | 22.2100.0135 |
| 17 | 35 | 10 | SL | FKM | 22.2200.1731 |
| 17 | 37 | 7 | DL | NBR | 22.2110.0773 |
| 17 | 37 | 8 | SL | NBR | 22.2100.0011 |
| 17 | 40 | 5 | DL | NBR | 22.2110.0713 |
| 17 | 40 | 6 | SL | NBR | 22.2100.0640 |
| 17 | 40 | 6 | SL | FKM | 22.2200.1740 |
| 17 | 40 | 6 | DL | NBR | 22.2110.0260 |
| 17 | 40 | 7 | SL | NBR | 22.2100.0740 |
| 17 | 40 | 7 | DL | NBR | 22.2110.0740 |
| 17 | 40 | 7 | DL | FKM | 22.2210.1740 |
| 17 | 40 | 8 | DL | NBR | 22.2110.0840 |
| 17 | 40 | 10 | SL | NBR | 22.2100.4100 |
| 17 | 40 | 10 | SL | FKM | 22.2200.1711 |
| 17 | 47 | 7 | SL | NBR | 22.2100.0477 |
| 17 | 47 | 7 | DL | NBR | 22.2110.0525 |
| 17 | 47 | 8 | SL | NBR | 22.2100.0487 |
| 17 | 47 | 8 | DL | NBR | 22.2110.0874 |
| 17 | 47 | 10 | DL | NBR | 22.2110.1747 |

| ID | OD | H | Type | Material | Item no. |
|----|----|-----|----------|----------|---------------------|
| 18 | 25 | 4 | AEX SL | NBR | 22.2300.1825 |
| 18 | 28 | 7 | AEX SL | NBR | 22.2300.1828 |
| 18 | 30 | 7 | AEX SL | NBR | 22.2300.1830 |
| 18 | 32 | 7 | AEX SL | NBR | 22.2300.1832 |
| 18 | 35 | 7 | AEX DL | NBR | 22.2140.1835 |
| 18 | 24 | 3 | AN SL SR | NBR | 22.2122.1824 |
| 18 | 26 | 4 | AN SL SR | NBR | 22.2122.1826 |
| 18 | 26 | 7 | SL | NBR | 22.2100.1826 |
| 18 | 27 | 5 | SL | NBR | 22.2100.1827 |
| 18 | 28 | 4 | SL | NBR | 22.2100.4820 |
| 18 | 28 | 4 | SL | FKM | 22.2200.2300 |
| 18 | 28 | 5 | SL | NBR | 22.2100.9976 |
| 18 | 28 | 6 | SL | NBR | 22.2100.1828 |
| 18 | 28 | 6 | SL | FKM | 22.2200.0189 |
| 18 | 28 | 7 | SL | NBR | 22.2100.0823 |
| 18 | 28 | 7 | SL | FKM | 22.2200.1828 |
| 18 | 28 | 7 | DL | NBR | 22.2110.2870 |
| 18 | 28 | 7 | DL | FKM | 22.2210.1829 |
| 18 | 28 | 7,5 | DL | FKM | 22.2210.1828 |
| 18 | 28 | 8 | SL | FKM | 22.2200.0014 |
| 18 | 28 | 8 | DL | NBR | 22.2110.1828 |
| 18 | 29 | 7 | DL | NBR | 22.2110.1829 |
| 18 | 30 | 6 | SL | NBR | 22.2100.0999 |
| 18 | 30 | 6 | DL | NBR | 22.2110.3060 |
| 18 | 30 | 7 | SL | NBR | 22.2100.1830 |
| 18 | 30 | 7 | SL | FKM | 22.2200.1830 |
| 18 | 30 | 7 | DL | NBR | 22.2110.0187 |
| 18 | 30 | 7 | DL | FKM | 22.2210.1830 |
| 18 | 30 | 8 | DL | NBR | 22.2110.0188 |
| 18 | 32 | 5 | SL | FKM | 22.2200.0341 |
| 18 | 32 | 6 | DL | NBR | 22.2110.3137 |
| 18 | 32 | 7 | SL | NBR | 22.2100.3218 |
| 18 | 32 | 7 | DL | NBR | 22.2110.0052 |
| 18 | 32 | 7 | DL | FKM | 22.2210.1832 |
| 18 | 32 | 8 | SL | NBR | 22.2100.1821 |
| 18 | 32 | 8 | SL | FKM | 22.2200.1285 |
| 18 | 32 | 8 | DL | NBR | 22.2110.8541 |
| 18 | 32 | 10 | DL | NBR | 22.2110.1832 |
| 18 | 35 | 5 | SL | NBR | 22.2100.9797 |
| 18 | 35 | 6 | DL | NBR | 22.2110.1835 |
| 18 | 35 | 7 | SL | NBR | 22.2100.0048 |
| 18 | 35 | 7 | DL | NBR | 22.2110.0184 |
| 18 | 35 | 8 | SL | NBR | 22.2100.8594 |
| 18 | 35 | 8 | SL | FKM | 22.2200.0188 |
| 18 | 35 | 8 | DL | NBR | 22.2110.0189 |
| 18 | 35 | 10 | SL | NBR | 22.2100.5942 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|-------|------|------|-----------|----------|---------------------|
| 18 | 35 | 10 | SL | FKM | 22.2200.0101 |
| 18 | 40 | 7 | SL | NBR | 22.2100.1648 |
| 18 | 40 | 7 | SL | FKM | 22.2200.4007 |
| 18 | 40 | 7 | DL | NBR | 22.2110.1854 |
| 18 | 40 | 7 | DL | FKM | 22.2210.1840 |
| 18 | 40 | 10 | DL | NBR | 22.2110.1654 |
| 18 | 42 | 7 | DL | NBR | 22.2110.5894 |
| 18 | 42 | 8 | SL | NBR | 22.2100.8745 |
| 18 | 42 | 8 | SL | FKM | 22.2200.1842 |
| 18 | 44 | 8 | SL | NBR | 22.2100.1844 |
| 18 | 47 | 10 | DL | NBR | 22.2110.1847 |
| 19 | 32 | 7 | AEX SL | NBR | 22.2300.1932 |
| 19 | 26 | 5,5 | SL | NBR | 22.2100.1926 |
| 19 | 27 | 6 | SL | NBR | 22.2100.1927 |
| 19 | 27 | 6 | SL | FKM | 22.2200.1927 |
| 19 | 27 | 6 | DL | NBR | 22.2110.1927 |
| 19 | 29 | 5 | SL | NBR | 22.2100.1929 |
| 19 | 29 | 6,5 | SL | NBR | 22.2100.1943 |
| 19 | 30 | 6 | SL | NBR | 22.2100.1930 |
| 19 | 30 | 6,5 | DL | NBR | 22.2110.0024 |
| 19 | 30 | 6,5 | DL | FKM | 22.2210.3019 |
| 19 | 30 | 7 | DL | NBR | 22.2110.0854 |
| 19 | 32 | 5 | SL | NBR | 22.2100.0685 |
| 19 | 32 | 6 | SL | FKM | 22.2200.1932 |
| 19 | 32 | 7 | SL | NBR | 22.2100.0882 |
| 19 | 32 | 7 | SL | NBR | 22.2100.1932 |
| 19 | 32 | 7 | SL | FKM | 22.2200.0197 |
| 19 | 32 | 7 | DL | NBR | 22.2110.1932 |
| 19 | 32 | 8 | DL | NBR | 22.2110.0564 |
| 19 | 32 | 10 | SL | NBR | 22.2100.5874 |
| 19 | 34 | 6 | SL | NBR | 22.2100.1934 |
| 19 | 34 | 6 | SL | FKM | 22.2200.1934 |
| 19 | 35 | 7 | SL | NBR | 22.2100.1935 |
| 19 | 35 | 7 | DL | NBR | 22.2110.0008 |
| 19 | 35 | 8 | DL | NBR | 22.2110.1935 |
| 19 | 35 | 10 | SL | NBR | 22.2100.5894 |
| 19 | 36 | 7 | SL | NBR | 22.2100.5126 |
| 19 | 36 | 8 | SL | NBR | 22.2100.1936 |
| 19 | 37 | 10 | SL | NBR | 22.2100.6464 |
| 19 | 38 | 7 | DL | NBR | 22.2110.0496 |
| 19 | 40 | 7 | DL | NBR | 22.2110.0433 |
| 19 | 40 | 10 | SL | NBR | 22.2100.1940 |
| 19 | 47 | 7 | DL | NBR | 22.2110.1947 |
| 19 | 47 | 10 | DL | NBR | 22.2110.0354 |
| 19,05 | 25,4 | 3,17 | AEX SL SR | NBR | 22.2155.1905 |
| 19,05 | 25,4 | 3,96 | AEX SL | NBR | 22.2300.1905 |

| ID | OD | H | Type | Material | Item no. |
|-------|-------|------|-----------|----------|---------------------|
| 19,05 | 31,75 | 6,35 | AEX DL | NBR | 22.2140.1905 |
| 19,05 | 34,92 | 6,35 | AEX DL | NBR | 22.2140.1934 |
| 20 | 26 | 4 | AEX SL SR | NBR | 22.2155.2026 |
| 20 | 26 | 4 | AEX SL | NBR | 22.2300.2026 |
| 20 | 28 | 4 | AEX DL | NBR | 22.2140.2028 |
| 20 | 29 | 9,5 | AEX DL | NBR | 22.2140.2029 |
| 20 | 30 | 5 | AEX SL | NBR | 22.2300.2305 |
| 20 | 30 | 7 | AEX SL | NBR | 22.2300.0207 |
| 20 | 31 | 7 | AEX SL | NBR | 22.2300.2031 |
| 20 | 35 | 7 | AEX SL | NBR | 22.2300.0357 |
| 20 | 35 | 7 | AEX DL | NBR | 22.2140.2068 |
| 20 | 35 | 8 | AEX SL | FKM | 22.2230.2035 |
| 20 | 35 | 10 | AEX SL | NBR | 22.2300.2010 |
| 20 | 47 | 10 | T2 SL | NBR | 22.2350.2047 |
| 20 | 52 | 10 | T2 SL | NBR | 22.2350.2052 |
| 20 | 26 | 4 | AN SL SR | NBR | 22.2122.2026 |
| 20 | 26 | 4 | DL | NBR | 22.2110.0012 |
| 20 | 26 | 5 | DL | NBR | 22.2110.2026 |
| 20 | 28 | 4 | AN SL SR | NBR | 22.2122.2028 |
| 20 | 28 | 4 | SL | NBR | 22.2100.2029 |
| 20 | 28 | 4 | DL | NBR | 22.2110.5974 |
| 20 | 28 | 5 | SL | NBR | 22.2100.4896 |
| 20 | 28 | 6 | SL | NBR | 22.2100.2028 |
| 20 | 28 | 6 | DL | NBR | 22.2110.2028 |
| 20 | 28 | 7 | DL | NBR | 22.2110.0456 |
| 20 | 30 | 4 | SL | FKM | 22.2200.0132 |
| 20 | 30 | 4,5 | SL | NBR | 22.2100.2031 |
| 20 | 30 | 4,5 | DL | NBR | 22.2110.2030 |
| 20 | 30 | 4,5 | DL | FKM | 22.2210.0203 |
| 20 | 30 | 5 | SL | NBR | 22.2100.2323 |
| 20 | 30 | 5 | SL | FKM | 22.2200.2030 |
| 20 | 30 | 5 | DL | NBR | 22.2110.0965 |
| 20 | 30 | 6 | SL | NBR | 22.2100.5546 |
| 20 | 30 | 6 | DL | NBR | 22.2110.0645 |
| 20 | 30 | 7 | SL | NBR | 22.2100.0203 |
| 20 | 30 | 7 | SL | FKM | 22.2200.2037 |
| 20 | 30 | 7 | DL | NBR | 22.2110.0020 |
| 20 | 30 | 7 | DL | FKM | 22.2210.2030 |
| 20 | 30 | 8 | DL | NBR | 22.2110.0208 |
| 20 | 31 | 7 | DL | NBR | 22.2110.2031 |
| 20 | 32 | 5 | SL | NBR | 22.2100.0874 |
| 20 | 32 | 5 | DL | NBR | 22.2110.0205 |
| 20 | 32 | 6 | DL | NBR | 22.2110.0684 |
| 20 | 32 | 6 | DL | FKM | 22.2210.0020 |
| 20 | 32 | 7 | SL | NBR | 22.2100.2027 |
| 20 | 32 | 7 | SL | FKM | 22.2200.2032 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|----|----|-----|-------|----------|---------------------|
| 20 | 32 | 7 | DL | NBR | 22.2110.2032 |
| 20 | 32 | 7 | DL | FKM | 22.2210.2032 |
| 20 | 32 | 8 | DL | NBR | 22.2110.0987 |
| 20 | 34 | 6 | DL | NBR | 22.2110.2034 |
| 20 | 34 | 7 | DL | NBR | 22.2110.0087 |
| 20 | 35 | 4 | SL SR | NBR | 22.2160.2035 |
| 20 | 35 | 5 | SL | NBR | 22.2100.0974 |
| 20 | 35 | 5 | DL | NBR | 22.2110.3520 |
| 20 | 35 | 6 | SL | NBR | 22.2100.2035 |
| 20 | 35 | 6 | DL | NBR | 22.2110.9854 |
| 20 | 35 | 6 | DL | FKM | 22.2210.2035 |
| 20 | 35 | 7 | SL | NBR | 22.2100.2007 |
| 20 | 35 | 7 | SL | FKM | 22.2200.2039 |
| 20 | 35 | 7 | DL | NBR | 22.2110.2035 |
| 20 | 35 | 7 | DL | FKM | 22.2210.0854 |
| 20 | 35 | 8 | SL | NBR | 22.2100.0895 |
| 20 | 35 | 8 | SL | FKM | 22.2200.5141 |
| 20 | 35 | 8 | DL | NBR | 22.2110.0045 |
| 20 | 35 | 10 | SL | FKM | 22.2200.2035 |
| 20 | 35 | 10 | DL | NBR | 22.2110.2134 |
| 20 | 36 | 5 | SL | NBR | 22.2100.2036 |
| 20 | 36 | 7 | SL | NBR | 22.2100.3854 |
| 20 | 36 | 7 | DL | NBR | 22.2110.5874 |
| 20 | 36 | 8 | DL | FKM | 22.2210.2036 |
| 20 | 37 | 7 | SL | NBR | 22.2100.2456 |
| 20 | 37 | 7 | DL | NBR | 22.2110.2233 |
| 20 | 37 | 8 | SL | NBR | 22.2100.6854 |
| 20 | 37 | 8 | SL | FKM | 22.2200.6302 |
| 20 | 37 | 8 | DL | NBR | 22.2110.8063 |
| 20 | 37 | 10 | SL | NBR | 22.2100.6895 |
| 20 | 37 | 10 | DL | NBR | 22.2110.2854 |
| 20 | 38 | 5 | DL | NBR | 22.2110.0209 |
| 20 | 38 | 6 | SL | FKM | 22.2200.0386 |
| 20 | 38 | 7 | SL | NBR | 22.2100.7658 |
| 20 | 38 | 7 | SL | FKM | 22.2200.3514 |
| 20 | 38 | 7 | DL | NBR | 22.2110.5469 |
| 20 | 38 | 8 | SL | NBR | 22.2100.2038 |
| 20 | 38 | 8 | SL | FKM | 22.2200.2038 |
| 20 | 38 | 8 | DL | NBR | 22.2110.0388 |
| 20 | 38 | 10 | DL | NBR | 22.2110.3810 |
| 20 | 38 | 15 | DL | NBR | 22.2110.2038 |
| 20 | 39 | 4,5 | DL | FKM | 22.2210.2039 |
| 20 | 40 | 6 | SL | FKM | 22.2200.2006 |
| 20 | 40 | 6 | DL | NBR | 22.2110.0406 |
| 20 | 40 | 7 | SL | NBR | 22.2100.2040 |
| 20 | 40 | 7 | SL | FKM | 22.2200.2040 |

| ID | OD | H | Type | Material | Item no. |
|----|----|-----|------|----------|---------------------|
| 20 | 40 | 7 | DL | NBR | 22.2110.0407 |
| 20 | 40 | 7 | DL | FKM | 22.2210.2040 |
| 20 | 40 | 8 | SL | NBR | 22.2100.2008 |
| 20 | 40 | 8 | DL | NBR | 22.2110.0408 |
| 20 | 40 | 9 | DL | NBR | 22.2110.0409 |
| 20 | 40 | 10 | SL | NBR | 22.2100.0222 |
| 20 | 40 | 10 | SL | FKM | 22.2200.2041 |
| 20 | 40 | 10 | DL | NBR | 22.2110.2294 |
| 20 | 40 | 10 | DL | FKM | 22.2210.0043 |
| 20 | 40 | 11 | DL | NBR | 22.2110.4011 |
| 20 | 42 | 6 | SL | NBR | 22.2100.2042 |
| 20 | 42 | 6 | DL | NBR | 22.2110.2042 |
| 20 | 42 | 7 | SL | FKM | 22.2200.2046 |
| 20 | 42 | 7 | DL | NBR | 22.2110.2293 |
| 20 | 42 | 7 | DL | FKM | 22.2210.2077 |
| 20 | 42 | 8 | DL | NBR | 22.2110.4280 |
| 20 | 42 | 10 | SL | FKM | 22.2200.2042 |
| 20 | 42 | 10 | DL | NBR | 22.2110.4054 |
| 20 | 42 | 12 | DL | NBR | 22.2110.2044 |
| 20 | 43 | 7,5 | SL | NBR | 22.2100.2043 |
| 20 | 45 | 7 | DL | NBR | 22.2110.1174 |
| 20 | 45 | 8 | DL | NBR | 22.2110.2045 |
| 20 | 45 | 10 | SL | NBR | 22.2100.2777 |
| 20 | 46 | 6 | SL | NBR | 22.2100.4660 |
| 20 | 47 | 4 | SL | NBR | 22.2100.2074 |
| 20 | 47 | 5 | DL | NBR | 22.2110.4750 |
| 20 | 47 | 5 | DL | FKM | 22.2210.0082 |
| 20 | 47 | 7 | SL | NBR | 22.2100.2047 |
| 20 | 47 | 7 | SL | FKM | 22.2200.2077 |
| 20 | 47 | 7 | DL | NBR | 22.2110.4770 |
| 20 | 47 | 7 | DL | FKM | 22.2210.2047 |
| 20 | 47 | 8 | SL | FKM | 22.2200.2047 |
| 20 | 47 | 8 | DL | NBR | 22.2110.4780 |
| 20 | 47 | 10 | SL | NBR | 22.2100.0047 |
| 20 | 47 | 10 | DL | NBR | 22.2110.1987 |
| 20 | 48 | 9 | SL | NBR | 22.2100.2048 |
| 20 | 52 | 7 | SL | NBR | 22.2100.2052 |
| 20 | 52 | 7 | SL | FKM | 22.2200.2052 |
| 20 | 52 | 7 | DL | NBR | 22.2110.5222 |
| 20 | 52 | 8 | SL | NBR | 22.2100.4654 |
| 20 | 52 | 8 | DL | NBR | 22.2110.0528 |
| 20 | 52 | 10 | SL | NBR | 22.2100.0205 |
| 20 | 52 | 10 | SL | FKM | 22.2200.2010 |
| 20 | 52 | 10 | DL | NBR | 22.2110.2222 |
| 20 | 54 | 7 | DL | NBR | 22.2110.6333 |
| 20 | 57 | 8 | SL | NBR | 22.2100.2057 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|----|----|-----|----------|----------|---------------------|
| 20 | 60 | 10 | SL | NBR | 22.2100.2060 |
| 20 | 62 | 7 | DL | FKM | 22.2210.2007 |
| 20 | 62 | 10 | DL | NBR | 22.2110.2306 |
| 21 | 30 | 4 | SL | NBR | 22.2100.0189 |
| 21 | 30 | 6,5 | SL | NBR | 22.2100.4546 |
| 21 | 30 | 6,5 | SL | FKM | 22.2200.2130 |
| 21 | 31 | 4,5 | SL | NBR | 22.2100.3145 |
| 21 | 31 | 5 | DL | NBR | 22.2110.2131 |
| 21 | 32 | 5 | SL | NBR | 22.2100.3719 |
| 21 | 32 | 7 | DL | NBR | 22.2110.0213 |
| 21 | 35 | 7 | SL | NBR | 22.2100.4989 |
| 21 | 35 | 7 | DL | NBR | 22.2110.5071 |
| 21 | 35 | 10 | SL | NBR | 22.2100.6454 |
| 21 | 40 | 7 | DL | NBR | 22.2110.4477 |
| 21 | 40 | 10 | SL | NBR | 22.2100.2140 |
| 21 | 52 | 8 | SL | NBR | 22.2100.3000 |
| 22 | 28 | 4 | AEX SL | NBR | 22.2300.2228 |
| 22 | 32 | 7 | AEX DL | NBR | 22.2140.2232 |
| 22 | 28 | 4 | AN SL SR | NBR | 22.2122.2228 |
| 22 | 28 | 4 | SL | NBR | 22.2100.2228 |
| 22 | 29 | 4 | AN SL SR | NBR | 22.2122.0056 |
| 22 | 30 | 4 | AN SL SR | NBR | 22.2122.2230 |
| 22 | 30 | 4 | SL | NBR | 22.2100.0697 |
| 22 | 30 | 7 | SL | NBR | 22.2100.2317 |
| 22 | 30 | 7 | DL | NBR | 22.2110.3930 |
| 22 | 31 | 5 | SL | NBR | 22.2100.2231 |
| 22 | 32 | 4 | SL | NBR | 22.2100.2232 |
| 22 | 32 | 5 | SL | NBR | 22.2100.0333 |
| 22 | 32 | 5 | DL | NBR | 22.2110.8877 |
| 22 | 32 | 6 | DL | NBR | 22.2110.4125 |
| 22 | 32 | 7 | SL | NBR | 22.2100.0022 |
| 22 | 32 | 7 | SL | FKM | 22.2200.2232 |
| 22 | 32 | 7 | DL | NBR | 22.2110.3333 |
| 22 | 32 | 7 | DL | FKM | 22.2210.2232 |
| 22 | 32 | 8 | DL | NBR | 22.2110.2232 |
| 22 | 33 | 7 | SL | NBR | 22.2100.2233 |
| 22 | 34 | 6 | DL | NBR | 22.2110.2234 |
| 22 | 34 | 7 | SL | NBR | 22.2100.4443 |
| 22 | 35 | 5 | SL | NBR | 22.2100.0161 |
| 22 | 35 | 5 | DL | NBR | 22.2110.2235 |
| 22 | 35 | 5,5 | SL | FKM | 22.2200.4545 |
| 22 | 35 | 6 | SL | NBR | 22.2100.2203 |
| 22 | 35 | 6 | DL | NBR | 22.2110.3434 |
| 22 | 35 | 7 | SL | NBR | 22.2100.0223 |
| 22 | 35 | 7 | SL | FKM | 22.2200.2235 |
| 22 | 35 | 7 | DL | NBR | 22.2110.2325 |

| ID | OD | H | Type | Material | Item no. |
|-------|-------|------|--------|----------|---------------------|
| 22 | 35 | 7 | DL | FKM | 22.2210.2235 |
| 22 | 35 | 8 | SL | NBR | 22.2100.2238 |
| 22 | 35 | 8 | DL | NBR | 22.2110.0022 |
| 22 | 35 | 10 | SL | FKM | 22.2200.9855 |
| 22 | 35 | 10 | DL | NBR | 22.2110.3256 |
| 22 | 36 | 7 | DL | NBR | 22.2110.3826 |
| 22 | 36 | 8 | DL | NBR | 22.2110.2236 |
| 22 | 36 | 10 | DL | NBR | 22.2110.0685 |
| 22 | 37 | 7 | SL | NBR | 22.2100.0857 |
| 22 | 37 | 7 | DL | NBR | 22.2110.3254 |
| 22 | 38 | 7 | DL | NBR | 22.2110.0068 |
| 22 | 38 | 8 | DL | NBR | 22.2110.6587 |
| 22 | 40 | 5 | DL | NBR | 22.2110.2240 |
| 22 | 40 | 7 | SL | NBR | 22.2100.5174 |
| 22 | 40 | 7 | DL | NBR | 22.2110.2354 |
| 22 | 40 | 7 | DL | FKM | 22.2210.2240 |
| 22 | 40 | 8 | SL | NBR | 22.2100.2240 |
| 22 | 40 | 8 | DL | NBR | 22.2110.0204 |
| 22 | 40 | 10 | SL | NBR | 22.2100.1205 |
| 22 | 40 | 10 | SL | FKM | 22.2200.7148 |
| 22 | 40 | 10 | DL | NBR | 22.2110.0032 |
| 22 | 42 | 7 | SL | NBR | 22.2100.0089 |
| 22 | 42 | 7 | SL | FKM | 22.2200.2242 |
| 22 | 42 | 7 | DL | NBR | 22.2110.0089 |
| 22 | 42 | 10 | DL | NBR | 22.2110.0857 |
| 22 | 42 | 11 | DL | NBR | 22.2110.0091 |
| 22 | 45 | 7 | SL | NBR | 22.2100.0875 |
| 22 | 45 | 7 | SL | FKM | 22.2200.2245 |
| 22 | 45 | 7 | DL | NBR | 22.2110.1574 |
| 22 | 45 | 8 | SL | NBR | 22.2100.2245 |
| 22 | 45 | 8 | DL | NBR | 22.2110.4567 |
| 22 | 47 | 7 | SL | NBR | 22.2100.2247 |
| 22 | 47 | 7 | DL | NBR | 22.2110.0521 |
| 22 | 47 | 10 | SL | NBR | 22.2100.0523 |
| 22 | 47 | 10 | DL | NBR | 22.2110.0587 |
| 22 | 48 | 7 | DL | NBR | 22.2110.5234 |
| 22 | 52 | 10 | DL | NBR | 22.2110.2252 |
| 22,23 | 33,35 | 6,35 | AEX SL | NBR | 22.2300.0042 |
| 22,23 | 34,93 | 6,35 | AEX DL | NBR | 22.2140.2222 |
| 22,23 | 41,25 | 6,35 | AEX DL | NBR | 22.2140.2223 |
| 23 | 42 | 10 | T2 SL | NBR | 22.2350.2342 |
| 23 | 35 | 6 | SL | NBR | 22.2100.8897 |
| 23 | 35 | 6 | DL | NBR | 22.2110.2356 |
| 23 | 35 | 7 | DL | NBR | 22.2110.2335 |
| 23 | 36 | 7 | DL | NBR | 22.2110.2336 |
| 23 | 37 | 7 | SL | NBR | 22.2100.2356 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|----|----|-----|----------|----------|---------------------|
| 23 | 38 | 8 | SL | FKM | 22.2200.4784 |
| 23 | 40 | 5 | DL | NBR | 22.2110.2340 |
| 23 | 40 | 7 | DL | NBR | 22.2110.5184 |
| 23 | 40 | 8 | SL | NBR | 22.2100.2340 |
| 23 | 40 | 8 | DL | NBR | 22.2110.0574 |
| 23 | 40 | 10 | SL | NBR | 22.2100.9685 |
| 23 | 40 | 10 | DL | NBR | 22.2110.2310 |
| 23 | 42 | 10 | DL | NBR | 22.2110.2342 |
| 23 | 47 | 10 | DL | NBR | 22.2110.0048 |
| 23 | 48 | 10 | DL | NBR | 22.2110.2348 |
| 23 | 52 | 12 | SL | NBR | 22.2100.2352 |
| 24 | 32 | 7 | AEX DL | NBR | 22.2140.2432 |
| 24 | 36 | 5 | AEX SL | NBR | 22.2300.2436 |
| 24 | 36 | 9 | AEX SL | NBR | 22.2300.2439 |
| 24 | 42 | 10 | T2 SL | NBR | 22.2350.2442 |
| 24 | 45 | 10 | AEX DL | NBR | 22.2140.2445 |
| 24 | 32 | 4 | AN SL SR | NBR | 22.2122.2432 |
| 24 | 34 | 5,5 | SL | NBR | 22.2100.2434 |
| 24 | 35 | 6 | SL | NBR | 22.2100.2435 |
| 24 | 35 | 6 | DL | NBR | 22.2110.0981 |
| 24 | 35 | 7 | SL | NBR | 22.2100.0244 |
| 24 | 35 | 7 | SL | FKM | 22.2200.2435 |
| 24 | 35 | 7 | DL | NBR | 22.2110.2345 |
| 24 | 35 | 7 | DL | FKM | 22.2210.2435 |
| 24 | 35 | 8 | DL | NBR | 22.2110.9874 |
| 24 | 36 | 7 | DL | NBR | 22.2110.0098 |
| 24 | 37 | 7 | SL | NBR | 22.2100.0845 |
| 24 | 37 | 7 | SL | FKM | 22.2200.2437 |
| 24 | 37 | 7 | DL | NBR | 22.2110.0875 |
| 24 | 38 | 7 | DL | NBR | 22.2110.3854 |
| 24 | 38 | 8 | DL | NBR | 22.2110.0748 |
| 24 | 40 | 7 | SL | NBR | 22.2100.0024 |
| 24 | 40 | 7 | SL | FKM | 22.2200.2440 |
| 24 | 40 | 7 | DL | NBR | 22.2110.6754 |
| 24 | 40 | 7 | DL | FKM | 22.2210.2440 |
| 24 | 40 | 8 | SL | NBR | 22.2100.4844 |
| 24 | 40 | 8 | DL | NBR | 22.2110.2440 |
| 24 | 40 | 10 | SL | NBR | 22.2100.2440 |
| 24 | 40 | 10 | DL | NBR | 22.2110.0236 |
| 24 | 41 | 10 | DL | NBR | 22.2110.2441 |
| 24 | 42 | 7 | DL | NBR | 22.2110.0237 |
| 24 | 42 | 8 | DL | NBR | 22.2110.2442 |
| 24 | 42 | 10 | SL | NBR | 22.2100.2443 |
| 24 | 45 | 7 | DL | NBR | 22.2110.4690 |
| 24 | 45 | 8 | DL | NBR | 22.2110.2445 |
| 24 | 47 | 7 | SL | NBR | 22.2100.2447 |

| ID | OD | H | Type | Material | Item no. |
|----|----|----|----------|----------|---------------------|
| 24 | 47 | 7 | DL | NBR | 22.2110.2447 |
| 24 | 47 | 10 | DL | NBR | 22.2110.8735 |
| 24 | 48 | 10 | SL | NBR | 22.2100.2448 |
| 24 | 50 | 10 | DL | NBR | 22.2110.2450 |
| 24 | 51 | 7 | DL | NBR | 22.2110.2451 |
| 24 | 52 | 10 | SL | NBR | 22.2100.2452 |
| 24 | 52 | 10 | SL | FKM | 22.2200.2452 |
| 24 | 52 | 10 | DL | NBR | 22.2110.0047 |
| 24 | 52 | 11 | DL | NBR | 22.2110.2456 |
| 25 | 34 | 5 | AEX SL | NBR | 22.2300.2534 |
| 25 | 35 | 4 | AEX SL | NBR | 22.2300.2554 |
| 25 | 35 | 7 | AEX SL | NBR | 22.2300.2537 |
| 25 | 37 | 7 | AEX SL | NBR | 22.2300.2577 |
| 25 | 38 | 7 | AEX SL | NBR | 22.2300.0387 |
| 25 | 38 | 7 | AEX DL | NBR | 22.2140.2538 |
| 25 | 40 | 6 | AEX SL | NBR | 22.2300.2546 |
| 25 | 40 | 7 | AEX DL | NBR | 22.2140.2540 |
| 25 | 40 | 8 | AEX DL | NBR | 22.2140.0258 |
| 25 | 42 | 10 | T2 SL | NBR | 22.2350.2542 |
| 25 | 47 | 7 | AEX SL | NBR | 22.2300.2547 |
| 25 | 47 | 7 | AEX DL | NBR | 22.2140.0477 |
| 25 | 47 | 10 | AEX DL | NBR | 22.2140.2547 |
| 25 | 47 | 10 | T2 SL | NBR | 22.2350.2547 |
| 25 | 50 | 12 | AEX SL | NBR | 22.2300.2550 |
| 25 | 52 | 7 | AEX DL | NBR | 22.2140.0510 |
| 25 | 62 | 7 | AEX SL | NBR | 22.2300.2562 |
| 25 | 32 | 4 | AN SL SR | NBR | 22.2122.2532 |
| 25 | 32 | 4 | SL | NBR | 22.2100.0253 |
| 25 | 32 | 4 | DL | NBR | 22.2110.0218 |
| 25 | 32 | 6 | DL | NBR | 22.2110.2532 |
| 25 | 32 | 6 | DL | FKM | 22.2210.2532 |
| 25 | 32 | 7 | SL | NBR | 22.2100.8546 |
| 25 | 32 | 7 | DL | NBR | 22.2110.2507 |
| 25 | 33 | 4 | AN SL SR | NBR | 22.2122.2533 |
| 25 | 33 | 4 | SL | NBR | 22.2100.4895 |
| 25 | 33 | 6 | SL | NBR | 22.2100.2533 |
| 25 | 33 | 6 | SL | FKM | 22.2200.2533 |
| 25 | 35 | 4 | AN SL SR | NBR | 22.2122.2535 |
| 25 | 35 | 5 | SL | NBR | 22.2100.2535 |
| 25 | 35 | 5 | DL | NBR | 22.2110.7845 |
| 25 | 35 | 6 | SL | NBR | 22.2100.0256 |
| 25 | 35 | 6 | DL | NBR | 22.2110.2535 |
| 25 | 35 | 6 | DL | FKM | 22.2210.2535 |
| 25 | 35 | 7 | SL | NBR | 22.2100.0257 |
| 25 | 35 | 7 | SL | FKM | 22.2200.2535 |
| 25 | 35 | 7 | DL | NBR | 22.2110.7841 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|----|----|----|-------|----------|---------------------|
| 25 | 35 | 7 | DL | FKM | 22.2210.0454 |
| 25 | 35 | 8 | SL | FKM | 22.2200.0185 |
| 25 | 35 | 8 | DL | NBR | 22.2110.4521 |
| 25 | 35 | 10 | SL | NBR | 22.2100.7489 |
| 25 | 36 | 6 | DL | NBR | 22.2110.2566 |
| 25 | 36 | 7 | SL | NBR | 22.2100.2536 |
| 25 | 36 | 7 | SL | FKM | 22.2200.2536 |
| 25 | 36 | 7 | DL | NBR | 22.2110.2536 |
| 25 | 36 | 8 | DL | NBR | 22.2110.0258 |
| 25 | 36 | 10 | SL | NBR | 22.2100.7541 |
| 25 | 36 | 10 | DL | NBR | 22.2110.7541 |
| 25 | 37 | 5 | SL | NBR | 22.2100.2526 |
| 25 | 37 | 5 | SL | FKM | 22.2200.2537 |
| 25 | 37 | 5 | DL | NBR | 22.2110.0375 |
| 25 | 37 | 6 | DL | NBR | 22.2110.2350 |
| 25 | 37 | 7 | SL | NBR | 22.2100.2537 |
| 25 | 37 | 7 | SL | FKM | 22.2200.8314 |
| 25 | 37 | 7 | DL | NBR | 22.2110.9001 |
| 25 | 37 | 8 | DL | NBR | 22.2110.9003 |
| 25 | 38 | 5 | SL | NBR | 22.2100.8956 |
| 25 | 38 | 7 | SL | NBR | 22.2100.2538 |
| 25 | 38 | 7 | SL | FKM | 22.2200.2538 |
| 25 | 38 | 7 | DL | NBR | 22.2110.2353 |
| 25 | 38 | 7 | DL | FKM | 22.2210.2538 |
| 25 | 38 | 8 | DL | NBR | 22.2110.9007 |
| 25 | 38 | 10 | SL | NBR | 22.2100.9007 |
| 25 | 38 | 10 | DL | NBR | 22.2110.2538 |
| 25 | 39 | 7 | DL | NBR | 22.2110.2539 |
| 25 | 40 | 4 | SL SR | NBR | 22.2160.2540 |
| 25 | 40 | 5 | SL | NBR | 22.2100.9009 |
| 25 | 40 | 5 | DL | NBR | 22.2110.9008 |
| 25 | 40 | 6 | SL | NBR | 22.2100.2546 |
| 25 | 40 | 6 | DL | NBR | 22.2110.2546 |
| 25 | 40 | 7 | SL | NBR | 22.2100.2540 |
| 25 | 40 | 7 | SL | FKM | 22.2200.2540 |
| 25 | 40 | 7 | DL | NBR | 22.2110.2540 |
| 25 | 40 | 7 | DL | FKM | 22.2210.2540 |
| 25 | 40 | 8 | SL | NBR | 22.2100.2541 |
| 25 | 40 | 8 | SL | FKM | 22.2200.0025 |
| 25 | 40 | 8 | DL | NBR | 22.2110.2548 |
| 25 | 40 | 9 | DL | NBR | 22.2110.1704 |
| 25 | 40 | 10 | SL | NBR | 22.2100.7002 |
| 25 | 40 | 10 | SL | FKM | 22.2200.2510 |
| 25 | 40 | 10 | DL | NBR | 22.2110.7002 |
| 25 | 41 | 6 | DL | NBR | 22.2110.2541 |
| 25 | 41 | 7 | DL | NBR | 22.2110.2367 |

| ID | OD | H | Type | Material | Item no. |
|----|----|----|------|----------|---------------------|
| 25 | 41 | 8 | DL | NBR | 22.2110.9999 |
| 25 | 41 | 10 | SL | FKM | 22.2200.2541 |
| 25 | 42 | 6 | SL | NBR | 22.2100.1382 |
| 25 | 42 | 6 | SL | FKM | 22.2200.1410 |
| 25 | 42 | 6 | DL | NBR | 22.2110.4598 |
| 25 | 42 | 7 | SL | FKM | 22.2200.2542 |
| 25 | 42 | 7 | DL | NBR | 22.2110.2542 |
| 25 | 42 | 7 | DL | FKM | 22.2210.2542 |
| 25 | 42 | 8 | SL | NBR | 22.2100.0025 |
| 25 | 42 | 8 | DL | NBR | 22.2110.4681 |
| 25 | 42 | 8 | DL | FKM | 22.2210.1245 |
| 25 | 42 | 10 | SL | NBR | 22.2100.0254 |
| 25 | 42 | 10 | SL | FKM | 22.2200.2543 |
| 25 | 42 | 10 | DL | NBR | 22.2110.0025 |
| 25 | 42 | 10 | DL | FKM | 22.2210.2543 |
| 25 | 43 | 8 | DL | NBR | 22.2110.0018 |
| 25 | 43 | 9 | SL | NBR | 22.2100.2543 |
| 25 | 43 | 9 | SL | FKM | 22.2200.1485 |
| 25 | 43 | 10 | DL | NBR | 22.2110.2543 |
| 25 | 44 | 7 | DL | NBR | 22.2110.2544 |
| 25 | 45 | 7 | SL | NBR | 22.2100.2545 |
| 25 | 45 | 7 | SL | FKM | 22.2200.2310 |
| 25 | 45 | 7 | DL | NBR | 22.2110.2545 |
| 25 | 45 | 7 | DL | FKM | 22.2210.2310 |
| 25 | 45 | 8 | DL | NBR | 22.2110.2389 |
| 25 | 45 | 10 | SL | NBR | 22.2100.1499 |
| 25 | 45 | 10 | DL | NBR | 22.2110.1486 |
| 25 | 45 | 10 | DL | FKM | 22.2210.2545 |
| 25 | 45 | 11 | SL | NBR | 22.2100.5548 |
| 25 | 46 | 7 | SL | FKM | 22.2200.2546 |
| 25 | 46 | 7 | DL | NBR | 22.2110.0467 |
| 25 | 46 | 10 | DL | NBR | 22.2110.0046 |
| 25 | 47 | 6 | SL | NBR | 22.2100.0045 |
| 25 | 47 | 6 | DL | NBR | 22.2110.0476 |
| 25 | 47 | 6 | DL | FKM | 22.2210.0034 |
| 25 | 47 | 7 | SL | NBR | 22.2100.2547 |
| 25 | 47 | 7 | SL | FKM | 22.2200.2548 |
| 25 | 47 | 7 | DL | NBR | 22.2110.2547 |
| 25 | 47 | 7 | DL | FKM | 22.2210.2547 |
| 25 | 47 | 8 | DL | NBR | 22.2110.0478 |
| 25 | 47 | 10 | SL | NBR | 22.2100.2507 |
| 25 | 47 | 10 | SL | FKM | 22.2200.2571 |
| 25 | 47 | 10 | DL | NBR | 22.2110.0471 |
| 25 | 47 | 10 | DL | FKM | 22.2210.2571 |
| 25 | 48 | 8 | SL | NBR | 22.2100.2548 |
| 25 | 48 | 8 | DL | NBR | 22.2110.2508 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|------|-------|------|----------|----------|---------------------|
| 25 | 50 | 7 | SL | FKM | 22.2200.1100 |
| 25 | 50 | 8 | DL | NBR | 22.2110.3271 |
| 25 | 50 | 10 | SL | FKM | 22.2200.2550 |
| 25 | 50 | 10 | DL | NBR | 22.2110.0255 |
| 25 | 52 | 5 | DL | NBR | 22.2110.0182 |
| 25 | 52 | 7 | SL | NBR | 22.2100.2552 |
| 25 | 52 | 7 | SL | FKM | 22.2200.2552 |
| 25 | 52 | 7 | DL | NBR | 22.2110.2052 |
| 25 | 52 | 7 | DL | FKM | 22.2210.2552 |
| 25 | 52 | 8 | SL | NBR | 22.2100.5208 |
| 25 | 52 | 8 | SL | FKM | 22.2200.0985 |
| 25 | 52 | 8 | DL | NBR | 22.2110.2552 |
| 25 | 52 | 10 | SL | NBR | 22.2100.2505 |
| 25 | 52 | 10 | DL | NBR | 22.2110.5210 |
| 25 | 52 | 12 | SL | NBR | 22.2100.9749 |
| 25 | 52 | 12 | DL | NBR | 22.2110.5212 |
| 25 | 55 | 9 | DL | NBR | 22.2110.4490 |
| 25 | 55 | 10 | DL | NBR | 22.2110.2555 |
| 25 | 60 | 7 | SL | NBR | 22.2100.2560 |
| 25 | 60 | 10 | DL | NBR | 22.2110.0536 |
| 25 | 62 | 7 | SL | NBR | 22.2100.6207 |
| 25 | 62 | 7 | SL | FKM | 22.2200.0095 |
| 25 | 62 | 7 | DL | NBR | 22.2110.2562 |
| 25 | 62 | 7 | DL | FKM | 22.2210.2562 |
| 25 | 62 | 8 | SL | NBR | 22.2100.0148 |
| 25 | 62 | 8 | SL | FKM | 22.2200.3210 |
| 25 | 62 | 8 | DL | NBR | 22.2110.6208 |
| 25 | 62 | 10 | SL | NBR | 22.2100.2562 |
| 25 | 62 | 10 | SL | FKM | 22.2200.2562 |
| 25 | 62 | 10 | DL | NBR | 22.2110.0621 |
| 25 | 72 | 7 | SL | NBR | 22.2100.2572 |
| 25 | 80 | 9 | SL | NBR | 22.2100.0838 |
| 25,4 | 38,1 | 6,35 | AEX DL | NBR | 22.2140.0254 |
| 25,4 | 44,45 | 9,52 | AEX DL | NBR | 22.2140.2544 |
| 25,4 | 44,5 | 6,35 | AEX DL | NBR | 22.2140.0025 |
| 25,4 | 50,8 | 9,53 | AEX DL | NBR | 22.2140.2550 |
| 26 | 34 | 4 | AN SL SR | NBR | 22.2122.2634 |
| 26 | 34 | 4 | SL | FKM | 22.2200.2634 |
| 26 | 35 | 7 | SL | NBR | 22.2100.2635 |
| 26 | 35 | 7 | DL | NBR | 22.2110.3507 |
| 26 | 36 | 7 | DL | NBR | 22.2110.2636 |
| 26 | 37 | 7 | SL | NBR | 22.2100.5688 |
| 26 | 37 | 7 | DL | NBR | 22.2110.5687 |
| 26 | 37 | 7 | DL | FKM | 22.2210.2637 |
| 26 | 38 | 5 | DL | NBR | 22.2110.5689 |
| 26 | 38 | 7 | DL | NBR | 22.2110.5691 |

| ID | OD | H | Type | Material | Item no. |
|----|----|----|--------|----------|---------------------|
| 26 | 38 | 8 | DL | NBR | 22.2110.5692 |
| 26 | 40 | 6 | SL | NBR | 22.2100.5694 |
| 26 | 40 | 6 | DL | NBR | 22.2110.5695 |
| 26 | 40 | 7 | DL | NBR | 22.2110.5696 |
| 26 | 40 | 9 | DL | NBR | 22.2110.5699 |
| 26 | 42 | 7 | SL | NBR | 22.2100.2642 |
| 26 | 42 | 7 | DL | NBR | 22.2110.5700 |
| 26 | 42 | 7 | DL | FKM | 22.2210.2642 |
| 26 | 42 | 8 | DL | NBR | 22.2110.5702 |
| 26 | 42 | 10 | SL | NBR | 22.2100.5704 |
| 26 | 45 | 7 | SL | NBR | 22.2100.5706 |
| 26 | 45 | 9 | DL | NBR | 22.2110.0269 |
| 26 | 47 | 7 | SL | NBR | 22.2100.5709 |
| 26 | 47 | 7 | DL | NBR | 22.2110.5708 |
| 26 | 47 | 7 | DL | FKM | 22.2210.2647 |
| 26 | 47 | 10 | SL | NBR | 22.2100.5712 |
| 26 | 47 | 10 | DL | NBR | 22.2110.5711 |
| 26 | 48 | 7 | DL | NBR | 22.2110.5713 |
| 26 | 52 | 8 | DL | NBR | 22.2110.5714 |
| 26 | 52 | 10 | DL | FKM | 22.2210.2652 |
| 27 | 37 | 5 | AEX DL | NBR | 22.2140.2737 |
| 27 | 42 | 10 | AEX SL | NBR | 22.2300.2742 |
| 27 | 52 | 8 | AEX SL | NBR | 22.2300.2752 |
| 27 | 35 | 7 | SL | NBR | 22.2100.8489 |
| 27 | 35 | 7 | SL | FKM | 22.2200.8471 |
| 27 | 36 | 6 | DL | NBR | 22.2110.5717 |
| 27 | 37 | 7 | SL | NBR | 22.2100.2336 |
| 27 | 38 | 6 | SL | NBR | 22.2100.9887 |
| 27 | 38 | 7 | DL | NBR | 22.2110.2738 |
| 27 | 40 | 6 | DL | NBR | 22.2110.5719 |
| 27 | 40 | 7 | SL | NBR | 22.2100.2740 |
| 27 | 40 | 7 | DL | NBR | 22.2110.5720 |
| 27 | 40 | 8 | DL | NBR | 22.2110.5721 |
| 27 | 41 | 10 | SL | NBR | 22.2100.5723 |
| 27 | 41 | 10 | SL | FKM | 22.2200.2741 |
| 27 | 42 | 7 | SL | NBR | 22.2100.2742 |
| 27 | 42 | 7 | DL | NBR | 22.2110.8000 |
| 27 | 42 | 10 | SL | NBR | 22.2100.8002 |
| 27 | 42 | 10 | DL | NBR | 22.2110.8001 |
| 27 | 43 | 8 | DL | NBR | 22.2110.8003 |
| 27 | 45 | 8 | DL | NBR | 22.2110.8006 |
| 27 | 47 | 6 | DL | NBR | 22.2110.5718 |
| 27 | 47 | 7 | DL | NBR | 22.2110.2747 |
| 27 | 47 | 8 | SL | NBR | 22.2100.8003 |
| 27 | 47 | 8 | SL | FKM | 22.2200.2747 |
| 27 | 47 | 8 | DL | NBR | 22.2110.1002 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|----|----|----|-----------|----------|---------------------|
| 27 | 47 | 10 | SL | NBR | 22.2100.8004 |
| 27 | 50 | 10 | DL | NBR | 22.2110.2750 |
| 27 | 52 | 8 | SL | FKM | 22.2200.8274 |
| 27 | 53 | 7 | DL | NBR | 22.2110.2753 |
| 27 | 55 | 8 | DL | NBR | 22.2110.8050 |
| 28 | 35 | 5 | AEX DL | NBR | 22.2140.2835 |
| 28 | 38 | 7 | AEX SL | NBR | 22.2300.2838 |
| 28 | 39 | 6 | AEX SL SR | NBR | 22.2155.2839 |
| 28 | 39 | 7 | AEX SL | NBR | 22.2300.2839 |
| 28 | 40 | 8 | AEX SL | NBR | 22.2300.2848 |
| 28 | 47 | 7 | AEX SL | NBR | 22.2300.2877 |
| 28 | 47 | 10 | AEX DL | NBR | 22.2140.2847 |
| 28 | 47 | 10 | T2 SL | NBR | 22.2350.2847 |
| 28 | 58 | 7 | AEX SL | NBR | 22.2300.2858 |
| 28 | 35 | 4 | AN SL SR | NBR | 22.2122.2835 |
| 28 | 35 | 5 | DL | NBR | 22.2110.8051 |
| 28 | 35 | 7 | DL | NBR | 22.2110.8052 |
| 28 | 37 | 4 | AN SL SR | NBR | 22.2122.2837 |
| 28 | 37 | 5 | DL | NBR | 22.2110.8053 |
| 28 | 37 | 6 | DL | NBR | 22.2110.8054 |
| 28 | 38 | 6 | SL | NBR | 22.2100.3698 |
| 28 | 38 | 7 | SL | NBR | 22.2100.2838 |
| 28 | 38 | 7 | SL | FKM | 22.2200.2838 |
| 28 | 38 | 7 | DL | NBR | 22.2110.8057 |
| 28 | 38 | 7 | DL | FKM | 22.2210.2838 |
| 28 | 38 | 8 | SL | NBR | 22.2100.8854 |
| 28 | 40 | 5 | SL | FKM | 22.2200.0541 |
| 28 | 40 | 5 | DL | NBR | 22.2110.8060 |
| 28 | 40 | 7 | SL | NBR | 22.2100.2841 |
| 28 | 40 | 7 | SL | FKM | 22.2200.2840 |
| 28 | 40 | 7 | DL | NBR | 22.2110.2840 |
| 28 | 40 | 7 | DL | FKM | 22.2210.2840 |
| 28 | 40 | 8 | SL | NBR | 22.2100.4557 |
| 28 | 40 | 8 | DL | NBR | 22.2110.8749 |
| 28 | 40 | 10 | SL | NBR | 22.2100.8797 |
| 28 | 40 | 10 | SL | FKM | 22.2200.3099 |
| 28 | 40 | 10 | DL | NBR | 22.2110.4165 |
| 28 | 42 | 6 | DL | NBR | 22.2110.2842 |
| 28 | 42 | 7 | SL | NBR | 22.2100.4674 |
| 28 | 42 | 7 | SL | FKM | 22.2200.2445 |
| 28 | 42 | 7 | DL | NBR | 22.2110.0656 |
| 28 | 42 | 8 | SL | NBR | 22.2100.7648 |
| 28 | 42 | 8 | DL | NBR | 22.2110.6151 |
| 28 | 42 | 10 | SL | FKM | 22.2200.0015 |
| 28 | 42 | 10 | DL | NBR | 22.2110.9556 |
| 28 | 43 | 8 | DL | NBR | 22.2110.0385 |

| ID | OD | H | Type | Material | Item no. |
|-------|-------|------|--------|----------|---------------------|
| 28 | 43 | 10 | SL | NBR | 22.2100.4655 |
| 28 | 43 | 10 | DL | NBR | 22.2110.8546 |
| 28 | 44 | 7 | DL | NBR | 22.2110.2844 |
| 28 | 44 | 10 | SL | FKM | 22.2200.2844 |
| 28 | 45 | 6 | DL | NBR | 22.2110.4357 |
| 28 | 45 | 7 | DL | NBR | 22.2110.3523 |
| 28 | 45 | 8 | SL | NBR | 22.2100.2845 |
| 28 | 45 | 8 | DL | NBR | 22.2110.4513 |
| 28 | 45 | 10 | DL | NBR | 22.2110.4762 |
| 28 | 46 | 10 | SL | NBR | 22.2100.6352 |
| 28 | 47 | 5 | SL | NBR | 22.2100.1862 |
| 28 | 47 | 7 | SL | NBR | 22.2100.2847 |
| 28 | 47 | 7 | SL | FKM | 22.2200.2104 |
| 28 | 47 | 7 | DL | NBR | 22.2110.7183 |
| 28 | 47 | 7 | DL | FKM | 22.2210.2847 |
| 28 | 47 | 8 | DL | NBR | 22.2110.4815 |
| 28 | 47 | 10 | SL | NBR | 22.2100.3862 |
| 28 | 47 | 10 | SL | FKM | 22.2200.2847 |
| 28 | 47 | 10 | DL | NBR | 22.2110.6613 |
| 28 | 47 | 10 | DL | FKM | 22.2210.2848 |
| 28 | 48 | 5 | SL | NBR | 22.2100.6024 |
| 28 | 48 | 8 | DL | NBR | 22.2110.7103 |
| 28 | 48 | 10 | SL | NBR | 22.2100.2848 |
| 28 | 48 | 11 | DL | NBR | 22.2110.3183 |
| 28 | 50 | 8 | SL | NBR | 22.2100.0545 |
| 28 | 50 | 10 | SL | NBR | 22.2100.9862 |
| 28 | 50 | 11 | DL | NBR | 22.2110.2850 |
| 28 | 52 | 6 | SL | NBR | 22.2100.0753 |
| 28 | 52 | 7 | SL | NBR | 22.2100.2852 |
| 28 | 52 | 7 | DL | NBR | 22.2110.1227 |
| 28 | 52 | 7 | DL | FKM | 22.2210.2852 |
| 28 | 52 | 10 | SL | NBR | 22.2100.8862 |
| 28 | 52 | 10 | DL | NBR | 22.2110.3587 |
| 28 | 55 | 10 | DL | NBR | 22.2110.2855 |
| 28 | 62 | 10 | SL | NBR | 22.2100.2862 |
| 28 | 62 | 12 | SL | NBR | 22.2100.4545 |
| 28,58 | 41,28 | 6,35 | AEX SL | NBR | 22.2300.2876 |
| 28,58 | 61,93 | 9,53 | T2 DL | NBR | 22.2354.2858 |
| 29 | 40 | 7 | DL | NBR | 22.2110.2940 |
| 29 | 42 | 7 | SL | NBR | 22.2100.8467 |
| 29 | 42 | 7 | SL | FKM | 22.2200.2942 |
| 29 | 43 | 7 | SL | NBR | 22.2100.1484 |
| 29 | 45 | 7 | SL | NBR | 22.2100.2738 |
| 29 | 45 | 8 | DL | NBR | 22.2110.9924 |
| 29 | 45 | 9 | DL | NBR | 22.2110.2945 |
| 29 | 46 | 10 | SL | NBR | 22.2100.3906 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|----|----|----|----------|----------|---------------------|
| 29 | 46 | 10 | DL | NBR | 22.2110.2946 |
| 29 | 47 | 8 | DL | NBR | 22.2110.0436 |
| 29 | 47 | 10 | SL | NBR | 22.2100.2947 |
| 29 | 47 | 10 | DL | NBR | 22.2110.2947 |
| 29 | 50 | 8 | DL | NBR | 22.2110.0295 |
| 29 | 50 | 10 | SL | FKM | 22.2200.3950 |
| 29 | 52 | 9 | SL | NBR | 22.2100.2952 |
| 29 | 55 | 9 | SL | NBR | 22.2100.2955 |
| 29 | 55 | 9 | SL | FKM | 22.2200.2955 |
| 29 | 62 | 10 | SL | NBR | 22.2100.2962 |
| 29 | 62 | 10 | SL | FKM | 22.2200.2962 |
| 30 | 37 | 4 | AEX SL | NBR | 22.2300.3037 |
| 30 | 40 | 7 | AEX DL | NBR | 22.2140.0307 |
| 30 | 42 | 7 | AEX SL | NBR | 22.2300.3042 |
| 30 | 42 | 7 | AEX DL | NBR | 22.2140.0427 |
| 30 | 44 | 7 | AEX DL | NBR | 22.2140.3044 |
| 30 | 47 | 7 | AEX SL | NBR | 22.2300.0477 |
| 30 | 47 | 7 | AEX DL | NBR | 22.2140.7077 |
| 30 | 50 | 7 | AEX SL | NBR | 22.2300.3050 |
| 30 | 50 | 7 | AEX DL | NBR | 22.2140.3050 |
| 30 | 50 | 10 | T2 SL | NBR | 22.2350.3050 |
| 30 | 52 | 7 | AEX SL | NBR | 22.2300.3052 |
| 30 | 52 | 7 | AEX DL | NBR | 22.2140.3052 |
| 30 | 52 | 10 | AEX SL | NBR | 22.2300.0521 |
| 30 | 55 | 7 | AEX DL | NBR | 22.2140.0557 |
| 30 | 55 | 12 | AEX SL | NBR | 22.2300.5512 |
| 30 | 56 | 10 | T2 SL | NBR | 22.2350.0305 |
| 30 | 62 | 7 | AEX DL | NBR | 22.2140.0062 |
| 30 | 62 | 9 | T2 SL | NBR | 22.2350.3062 |
| 30 | 62 | 10 | AEX DL | NBR | 22.2140.3062 |
| 30 | 72 | 10 | AEX DL | NBR | 22.2140.0094 |
| 30 | 72 | 12 | AEX DL | NBR | 22.2140.9999 |
| 30 | 36 | 5 | SL | NBR | 22.2100.3036 |
| 30 | 37 | 4 | AN SL SR | NBR | 22.2122.3037 |
| 30 | 37 | 4 | SL SR | NBR | 22.2160.3037 |
| 30 | 37 | 4 | SL | NBR | 22.2100.3037 |
| 30 | 38 | 4 | SL SR | NBR | 22.2160.3038 |
| 30 | 38 | 4 | SL | NBR | 22.2100.3038 |
| 30 | 38 | 4 | DL | NBR | 22.2110.3038 |
| 30 | 38 | 7 | DL | NBR | 22.2110.0383 |
| 30 | 40 | 4 | AN SL SR | NBR | 22.2122.3040 |
| 30 | 40 | 4 | SL SR | NBR | 22.2160.3040 |
| 30 | 40 | 4 | SL | NBR | 22.2100.3040 |
| 30 | 40 | 5 | SL | NBR | 22.2100.5445 |
| 30 | 40 | 5 | SL | FKM | 22.2200.0304 |
| 30 | 40 | 5 | DL | NBR | 22.2110.8759 |

| ID | OD | H | Type | Material | Item no. |
|----|----|----|------|----------|---------------------|
| 30 | 40 | 7 | SL | NBR | 22.2100.0304 |
| 30 | 40 | 7 | SL | FKM | 22.2200.3040 |
| 30 | 40 | 7 | DL | NBR | 22.2110.3040 |
| 30 | 40 | 7 | DL | FKM | 22.2210.3040 |
| 30 | 40 | 8 | SL | NBR | 22.2100.7458 |
| 30 | 40 | 10 | SL | NBR | 22.2100.4455 |
| 30 | 41 | 7 | DL | NBR | 22.2110.7585 |
| 30 | 42 | 5 | DL | NBR | 22.2110.3546 |
| 30 | 42 | 6 | SL | NBR | 22.2100.0057 |
| 30 | 42 | 6 | DL | NBR | 22.2110.2003 |
| 30 | 42 | 6 | DL | FKM | 22.2210.0206 |
| 30 | 42 | 7 | SL | NBR | 22.2100.0030 |
| 30 | 42 | 7 | SL | FKM | 22.2200.3042 |
| 30 | 42 | 7 | DL | NBR | 22.2110.3000 |
| 30 | 42 | 7 | DL | FKM | 22.2210.0052 |
| 30 | 42 | 7 | DL | FKM | 22.2210.3042 |
| 30 | 42 | 8 | SL | NBR | 22.2100.0219 |
| 30 | 42 | 8 | DL | NBR | 22.2110.0319 |
| 30 | 42 | 8 | DL | FKM | 22.2210.0784 |
| 30 | 42 | 10 | DL | NBR | 22.2110.0318 |
| 30 | 43 | 8 | SL | NBR | 22.2100.0216 |
| 30 | 43 | 8 | DL | NBR | 22.2110.0316 |
| 30 | 43 | 10 | DL | NBR | 22.2110.0314 |
| 30 | 44 | 7 | DL | NBR | 22.2110.0313 |
| 30 | 44 | 10 | SL | NBR | 22.2100.0214 |
| 30 | 44 | 10 | SL | FKM | 22.2200.3044 |
| 30 | 44 | 10 | DL | NBR | 22.2110.3044 |
| 30 | 45 | 5 | SL | NBR | 22.2100.3045 |
| 30 | 45 | 5 | DL | NBR | 22.2110.3045 |
| 30 | 45 | 5 | DL | FKM | 22.2210.0141 |
| 30 | 45 | 6 | SL | NBR | 22.2100.0212 |
| 30 | 45 | 6 | DL | NBR | 22.2110.0311 |
| 30 | 45 | 7 | SL | NBR | 22.2100.0754 |
| 30 | 45 | 7 | DL | NBR | 22.2110.0310 |
| 30 | 45 | 7 | DL | FKM | 22.2210.3045 |
| 30 | 45 | 8 | SL | NBR | 22.2100.0301 |
| 30 | 45 | 8 | SL | FKM | 22.2200.3045 |
| 30 | 45 | 8 | DL | NBR | 22.2110.0309 |
| 30 | 45 | 10 | SL | NBR | 22.2100.0208 |
| 30 | 45 | 10 | DL | NBR | 22.2110.0308 |
| 30 | 46 | 5 | DL | NBR | 22.2110.3046 |
| 30 | 46 | 7 | DL | NBR | 22.2110.0331 |
| 30 | 46 | 8 | DL | NBR | 22.2110.0332 |
| 30 | 46 | 9 | SL | NBR | 22.2100.0285 |
| 30 | 47 | 5 | SL | NBR | 22.2100.0233 |
| 30 | 47 | 5 | DL | NBR | 22.2110.3055 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|----|----|-----|----------|----------|---------------------|
| 30 | 47 | 6 | SL | NBR | 22.2100.0234 |
| 30 | 47 | 6 | DL | NBR | 22.2110.0333 |
| 30 | 47 | 7 | AN SL SR | NBR | 22.2122.3047 |
| 30 | 47 | 7 | SL | NBR | 22.2100.3047 |
| 30 | 47 | 7 | SL | FKM | 22.2200.3041 |
| 30 | 47 | 7 | DL | NBR | 22.2110.3047 |
| 30 | 47 | 7 | DL | FKM | 22.2210.3047 |
| 30 | 47 | 8 | SL | NBR | 22.2100.3007 |
| 30 | 47 | 8 | SL | FKM | 22.2200.0055 |
| 30 | 47 | 8 | DL | NBR | 22.2110.0335 |
| 30 | 47 | 10 | SL | NBR | 22.2100.0302 |
| 30 | 47 | 10 | SL | FKM | 22.2200.3047 |
| 30 | 47 | 10 | DL | NBR | 22.2110.0337 |
| 30 | 48 | 7 | DL | NBR | 22.2110.0338 |
| 30 | 48 | 8 | SL | NBR | 22.2100.3048 |
| 30 | 48 | 8 | DL | NBR | 22.2110.0339 |
| 30 | 48 | 10 | DL | NBR | 22.2110.0340 |
| 30 | 50 | 7 | SL | NBR | 22.2100.0242 |
| 30 | 50 | 7 | SL | FKM | 22.2200.0241 |
| 30 | 50 | 7 | DL | NBR | 22.2110.0342 |
| 30 | 50 | 7 | DL | FKM | 22.2210.0241 |
| 30 | 50 | 8 | SL | NBR | 22.2100.0243 |
| 30 | 50 | 8 | SL | FKM | 22.2200.3055 |
| 30 | 50 | 8 | DL | NBR | 22.2110.0243 |
| 30 | 50 | 10 | SL | NBR | 22.2100.3050 |
| 30 | 50 | 10 | SL | FKM | 22.2200.3050 |
| 30 | 50 | 10 | DL | NBR | 22.2110.0344 |
| 30 | 50 | 12 | SL | NBR | 22.2100.0263 |
| 30 | 50 | 12 | DL | NBR | 22.2110.0263 |
| 30 | 51 | 8 | DL | NBR | 22.2110.3051 |
| 30 | 52 | 5 | SL | NBR | 22.2100.0262 |
| 30 | 52 | 6 | SL | NBR | 22.2100.9641 |
| 30 | 52 | 6 | SL | FKM | 22.2200.0140 |
| 30 | 52 | 7 | SL | NBR | 22.2100.3052 |
| 30 | 52 | 7 | SL | FKM | 22.2200.3052 |
| 30 | 52 | 7 | DL | NBR | 22.2110.3052 |
| 30 | 52 | 7 | DL | FKM | 22.2210.0527 |
| 30 | 52 | 8 | DL | NBR | 22.2110.0360 |
| 30 | 52 | 8,5 | SL | NBR | 22.2100.5230 |
| 30 | 52 | 10 | SL | NBR | 22.2100.0309 |
| 30 | 52 | 10 | DL | NBR | 22.2110.0608 |
| 30 | 52 | 10 | DL | NBR | 22.2110.9653 |
| 30 | 52 | 10 | DL | FKM | 22.2210.3052 |
| 30 | 52 | 12 | SL | NBR | 22.2100.0662 |
| 30 | 52 | 12 | DL | NBR | 22.2110.6291 |
| 30 | 54 | 10 | SL | NBR | 22.2100.5404 |

| ID | OD | H | Type | Material | Item no. |
|----|----|----|------|----------|---------------------|
| 30 | 54 | 10 | DL | NBR | 22.2110.7651 |
| 30 | 55 | 6 | DL | NBR | 22.2110.8410 |
| 30 | 55 | 7 | SL | NBR | 22.2100.5316 |
| 30 | 55 | 7 | SL | FKM | 22.2200.4857 |
| 30 | 55 | 7 | DL | NBR | 22.2110.5214 |
| 30 | 55 | 8 | DL | NBR | 22.2110.6545 |
| 30 | 55 | 10 | SL | NBR | 22.2100.3055 |
| 30 | 55 | 10 | DL | NBR | 22.2110.5646 |
| 30 | 55 | 10 | DL | FKM | 22.2210.3055 |
| 30 | 55 | 11 | DL | NBR | 22.2110.3585 |
| 30 | 55 | 12 | DL | NBR | 22.2110.5856 |
| 30 | 56 | 6 | DL | NBR | 22.2110.3056 |
| 30 | 56 | 7 | SL | NBR | 22.2100.5876 |
| 30 | 56 | 10 | SL | NBR | 22.2100.6578 |
| 30 | 56 | 10 | DL | NBR | 22.2110.6578 |
| 30 | 57 | 8 | SL | NBR | 22.2100.6545 |
| 30 | 57 | 8 | SL | FKM | 22.2200.9581 |
| 30 | 58 | 10 | DL | NBR | 22.2110.2810 |
| 30 | 60 | 10 | SL | NBR | 22.2100.5856 |
| 30 | 60 | 10 | SL | FKM | 22.2200.3061 |
| 30 | 60 | 10 | DL | NBR | 22.2110.6010 |
| 30 | 60 | 12 | DL | NBR | 22.2110.3213 |
| 30 | 62 | 5 | SL | NBR | 22.2100.2131 |
| 30 | 62 | 7 | SL | NBR | 22.2100.3062 |
| 30 | 62 | 7 | SL | FKM | 22.2200.9841 |
| 30 | 62 | 7 | DL | NBR | 22.2110.5456 |
| 30 | 62 | 7 | DL | FKM | 22.2210.3062 |
| 30 | 62 | 8 | SL | NBR | 22.2100.3063 |
| 30 | 62 | 8 | DL | NBR | 22.2110.5187 |
| 30 | 62 | 9 | DL | NBR | 22.2110.3062 |
| 30 | 62 | 10 | SL | NBR | 22.2100.0306 |
| 30 | 62 | 10 | SL | FKM | 22.2200.3064 |
| 30 | 62 | 10 | DL | NBR | 22.2110.4753 |
| 30 | 62 | 10 | DL | FKM | 22.2210.0196 |
| 30 | 62 | 12 | SL | NBR | 22.2100.3061 |
| 30 | 62 | 12 | DL | NBR | 22.2110.8774 |
| 30 | 65 | 8 | SL | NBR | 22.2100.6565 |
| 30 | 65 | 8 | DL | NBR | 22.2110.6565 |
| 30 | 65 | 10 | DL | NBR | 22.2110.6585 |
| 30 | 70 | 10 | DL | NBR | 22.2110.8933 |
| 30 | 72 | 8 | DL | NBR | 22.2110.8798 |
| 30 | 72 | 8 | DL | FKM | 22.2210.3072 |
| 30 | 72 | 10 | SL | NBR | 22.2100.0087 |
| 30 | 72 | 10 | SL | FKM | 22.2200.3072 |
| 30 | 72 | 10 | DL | NBR | 22.2110.8745 |
| 30 | 75 | 9 | DL | NBR | 22.2110.3075 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|-------|-------|------|-----------|----------|---------------------|
| 30 | 77 | 9 | DL | NBR | 22.2110.3077 |
| 30 | 77 | 10 | DL | NBR | 22.2110.8484 |
| 30 | 80 | 10 | DL | NBR | 22.2110.3080 |
| 31 | 42 | 8 | SL | NBR | 22.2100.3142 |
| 31 | 46 | 6 | DL | NBR | 22.2110.3146 |
| 31 | 47 | 7 | SL | FKM | 22.2200.3147 |
| 31 | 47 | 7 | DL | NBR | 22.2110.3147 |
| 31 | 47 | 8 | DL | NBR | 22.2110.5876 |
| 31 | 48 | 7 | DL | NBR | 22.2110.6598 |
| 31 | 48 | 10 | DL | NBR | 22.2110.2965 |
| 31 | 52 | 6 | SL | NBR | 22.2100.6145 |
| 31 | 52 | 7 | DL | NBR | 22.2110.7447 |
| 31 | 52 | 9 | SL | NBR | 22.2100.8574 |
| 31,75 | 44,45 | 6,35 | AEX SL | NBR | 22.2300.3175 |
| 31,75 | 47,63 | 6,35 | AEX DL | NBR | 22.2140.3147 |
| 31,75 | 50,8 | 6,35 | AEX DL | NBR | 22.2140.0319 |
| 31,75 | 50,8 | 9,52 | T2 SL | NBR | 22.2350.3175 |
| 32 | 42 | 4 | AEX SL SR | NBR | 22.2155.3242 |
| 32 | 42 | 7 | AEX DL | NBR | 22.2140.3242 |
| 32 | 47 | 9 | T2 SL | NBR | 22.2350.3247 |
| 32 | 48 | 7 | AEX SL | NBR | 22.2300.3247 |
| 32 | 52 | 6,5 | AEX SL | NBR | 22.2300.5265 |
| 32 | 52 | 7 | AEX DL | NBR | 22.2140.3252 |
| 32 | 56 | 12 | T2 SL | NBR | 22.2350.0321 |
| 32 | 40 | 5 | SL | NBR | 22.2100.3240 |
| 32 | 40 | 7 | DL | NBR | 22.2110.3240 |
| 32 | 42 | 4 | AN SL SR | NBR | 22.2122.3242 |
| 32 | 42 | 5 | SL | NBR | 22.2100.3242 |
| 32 | 42 | 5 | DL | NBR | 22.2110.0751 |
| 32 | 42 | 6 | DL | NBR | 22.2110.5964 |
| 32 | 42 | 7 | SL | NBR | 22.2100.6455 |
| 32 | 42 | 7 | DL | NBR | 22.2110.8659 |
| 32 | 42 | 8 | DL | NBR | 22.2110.6549 |
| 32 | 43 | 5,5 | DL | NBR | 22.2110.3243 |
| 32 | 43 | 7 | DL | NBR | 22.2110.4685 |
| 32 | 44 | 7 | DL | NBR | 22.2110.5748 |
| 32 | 44 | 8 | DL | NBR | 22.2110.4857 |
| 32 | 44 | 10 | DL | NBR | 22.2110.3244 |
| 32 | 45 | 4 | AN SL SR | NBR | 22.2122.3245 |
| 32 | 45 | 6 | SL | NBR | 22.2100.2362 |
| 32 | 45 | 6 | SL | FKM | 22.2200.2888 |
| 32 | 45 | 7 | SL | NBR | 22.2100.3245 |
| 32 | 45 | 7 | SL | FKM | 22.2200.3245 |
| 32 | 45 | 7 | DL | NBR | 22.2110.3265 |
| 32 | 45 | 7 | DL | FKM | 22.2210.3245 |
| 32 | 45 | 8 | SL | NBR | 22.2100.7043 |

| ID | OD | H | Type | Material | Item no. |
|----|----|-----|------|----------|---------------------|
| 32 | 45 | 8 | DL | NBR | 22.2110.5453 |
| 32 | 45 | 10 | SL | NBR | 22.2100.8731 |
| 32 | 45 | 10 | DL | NBR | 22.2110.5062 |
| 32 | 46 | 7 | DL | NBR | 22.2110.0652 |
| 32 | 47 | 7 | SL | NBR | 22.2100.0324 |
| 32 | 47 | 7 | SL | FKM | 22.2200.3247 |
| 32 | 47 | 7 | DL | NBR | 22.2110.4333 |
| 32 | 47 | 7 | DL | FKM | 22.2210.3247 |
| 32 | 47 | 8 | SL | NBR | 22.2100.1065 |
| 32 | 47 | 8 | DL | NBR | 22.2110.6521 |
| 32 | 47 | 10 | SL | FKM | 22.2200.3248 |
| 32 | 47 | 10 | DL | NBR | 22.2110.3715 |
| 32 | 48 | 5 | SL | NBR | 22.2100.0748 |
| 32 | 48 | 7 | DL | NBR | 22.2110.3248 |
| 32 | 48 | 8 | SL | NBR | 22.2100.3265 |
| 32 | 48 | 8 | DL | NBR | 22.2110.5746 |
| 32 | 50 | 7 | SL | NBR | 22.2100.5465 |
| 32 | 50 | 7 | SL | FKM | 22.2200.6001 |
| 32 | 50 | 7 | DL | NBR | 22.2110.5465 |
| 32 | 50 | 8 | SL | NBR | 22.2100.3250 |
| 32 | 50 | 8 | SL | FKM | 22.2200.0396 |
| 32 | 50 | 8 | DL | NBR | 22.2110.2601 |
| 32 | 50 | 10 | SL | NBR | 22.2100.0032 |
| 32 | 50 | 10 | DL | NBR | 22.2110.7578 |
| 32 | 50 | 10 | DL | FKM | 22.2210.3250 |
| 32 | 50 | 12 | SL | FKM | 22.2200.3232 |
| 32 | 51 | 8 | SL | NBR | 22.2100.4578 |
| 32 | 51 | 8 | DL | NBR | 22.2110.5140 |
| 32 | 52 | 7 | SL | NBR | 22.2100.3252 |
| 32 | 52 | 7 | SL | FKM | 22.2200.3251 |
| 32 | 52 | 7 | DL | NBR | 22.2110.3252 |
| 32 | 52 | 7 | DL | FKM | 22.2210.3251 |
| 32 | 52 | 7,5 | SL | NBR | 22.2100.3200 |
| 32 | 52 | 8 | DL | NBR | 22.2110.4545 |
| 32 | 52 | 9 | SL | NBR | 22.2100.5254 |
| 32 | 52 | 10 | SL | NBR | 22.2100.3659 |
| 32 | 52 | 10 | SL | FKM | 22.2200.3252 |
| 32 | 52 | 12 | SL | NBR | 22.2100.3264 |
| 32 | 54 | 8 | SL | NBR | 22.2100.3254 |
| 32 | 54 | 10 | DL | NBR | 22.2110.1245 |
| 32 | 55 | 7 | DL | NBR | 22.2110.0741 |
| 32 | 55 | 8 | DL | NBR | 22.2110.4783 |
| 32 | 55 | 10 | SL | NBR | 22.2100.4593 |
| 32 | 55 | 10 | DL | NBR | 22.2110.3255 |
| 32 | 55 | 11 | DL | NBR | 22.2110.5645 |
| 32 | 56 | 10 | DL | NBR | 22.2110.6527 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|----|----|-----|--------|----------|---------------------|
| 32 | 57 | 9,5 | SL | FKM | 22.2200.3257 |
| 32 | 58 | 10 | DL | NBR | 22.2110.3258 |
| 32 | 60 | 10 | DL | NBR | 22.2110.3260 |
| 32 | 62 | 6 | SL | NBR | 22.2100.5645 |
| 32 | 62 | 7 | DL | NBR | 22.2110.3262 |
| 32 | 62 | 8 | SL | NBR | 22.2100.6859 |
| 32 | 62 | 8 | DL | NBR | 22.2110.6859 |
| 32 | 62 | 10 | SL | NBR | 22.2100.3262 |
| 32 | 62 | 10 | SL | FKM | 22.2200.3262 |
| 32 | 65 | 9 | DL | NBR | 22.2110.8888 |
| 32 | 65 | 13 | DL | FKM | 22.2210.3265 |
| 32 | 66 | 10 | SL | NBR | 22.2100.0326 |
| 32 | 72 | 8 | DL | NBR | 22.2110.8880 |
| 32 | 72 | 10 | DL | NBR | 22.2110.8881 |
| 33 | 43 | 7 | SL | NBR | 22.2100.3343 |
| 33 | 43 | 7 | SL | FKM | 22.2200.3343 |
| 33 | 44 | 8 | DL | NBR | 22.2110.8885 |
| 33 | 45 | 7 | SL | NBR | 22.2100.8880 |
| 33 | 45 | 7 | SL | FKM | 22.2200.3345 |
| 33 | 48 | 12 | SL | NBR | 22.2100.3348 |
| 33 | 50 | 6 | SL | NBR | 22.2100.1350 |
| 33 | 50 | 6 | SL | FKM | 22.2200.3350 |
| 33 | 50 | 6 | DL | NBR | 22.2110.8886 |
| 33 | 50 | 7 | DL | NBR | 22.2110.3350 |
| 33 | 50 | 8 | SL | FKM | 22.2200.3358 |
| 33 | 50 | 8 | DL | NBR | 22.2110.8887 |
| 33 | 50 | 10 | DL | NBR | 22.2110.3310 |
| 33 | 50 | 10 | DL | FKM | 22.2210.3350 |
| 33 | 50 | 12 | DL | NBR | 22.2110.9888 |
| 33 | 52 | 6 | SL | NBR | 22.2100.5858 |
| 33 | 52 | 6 | SL | FKM | 22.2200.3352 |
| 33 | 52 | 6 | DL | FKM | 22.2210.0230 |
| 33 | 52 | 8 | SL | FKM | 22.2200.0364 |
| 33 | 52 | 8 | DL | NBR | 22.2110.2263 |
| 33 | 52 | 10 | DL | NBR | 22.2110.3352 |
| 33 | 55 | 10 | SL | NBR | 22.2100.1492 |
| 34 | 46 | 8 | AEX SL | NBR | 22.2300.3446 |
| 34 | 52 | 10 | T2 SL | NBR | 22.2350.3452 |
| 34 | 72 | 12 | T2 SL | NBR | 22.2350.3472 |
| 34 | 44 | 6 | SL | NBR | 22.2100.3444 |
| 34 | 44 | 7 | SL | NBR | 22.2100.2359 |
| 34 | 45 | 7 | SL | NBR | 22.2100.3445 |
| 34 | 45 | 7 | DL | NBR | 22.2110.3445 |
| 34 | 45 | 8 | DL | NBR | 22.2110.3408 |
| 34 | 46 | 8 | SL | NBR | 22.2100.3446 |
| 34 | 46 | 8 | DL | NBR | 22.2110.3446 |

| ID | OD | H | Type | Material | Item no. |
|----|----|-----|--------|----------|---------------------|
| 34 | 46 | 10 | SL | NBR | 22.2100.4610 |
| 34 | 46 | 10 | SL | FKM | 22.2200.3446 |
| 34 | 47 | 7 | DL | NBR | 22.2110.3447 |
| 34 | 47 | 9 | SL | NBR | 22.2100.4817 |
| 34 | 48 | 7 | DL | NBR | 22.2110.3448 |
| 34 | 48 | 8 | SL | NBR | 22.2100.3448 |
| 34 | 48 | 8 | DL | NBR | 22.2110.4808 |
| 34 | 48 | 11 | DL | NBR | 22.2110.0230 |
| 34 | 49 | 8 | SL | FKM | 22.2200.3449 |
| 34 | 50 | 7 | DL | NBR | 22.2110.3450 |
| 34 | 50 | 8 | DL | NBR | 22.2110.5034 |
| 34 | 50 | 10 | SL | NBR | 22.2100.5010 |
| 34 | 50 | 10 | SL | FKM | 22.2200.3450 |
| 34 | 51 | 8 | SL | NBR | 22.2100.3451 |
| 34 | 52 | 7 | DL | NBR | 22.2110.0562 |
| 34 | 52 | 7,5 | SL | NBR | 22.2100.0034 |
| 34 | 52 | 7,5 | SL | FKM | 22.2200.0034 |
| 34 | 52 | 7,5 | DL | NBR | 22.2110.0097 |
| 34 | 52 | 8 | SL | NBR | 22.2100.0528 |
| 34 | 52 | 8 | SL | FKM | 22.2200.3453 |
| 34 | 52 | 8 | DL | NBR | 22.2110.3452 |
| 34 | 52 | 10 | SL | NBR | 22.2100.3452 |
| 34 | 52 | 10 | DL | NBR | 22.2110.9471 |
| 34 | 52 | 11 | DL | NBR | 22.2110.5211 |
| 34 | 54 | 10 | DL | NBR | 22.2110.3410 |
| 34 | 54 | 11 | DL | NBR | 22.2110.5411 |
| 34 | 55 | 7 | SL | NBR | 22.2100.9876 |
| 34 | 55 | 9 | DL | NBR | 22.2110.3733 |
| 34 | 62 | 7 | SL | NBR | 22.2100.6514 |
| 34 | 62 | 10 | SL | NBR | 22.2100.3462 |
| 34 | 62 | 10 | SL | FKM | 22.2200.3462 |
| 34 | 72 | 10 | DL | NBR | 22.2110.3472 |
| 35 | 42 | 4 | AEX SL | NBR | 22.2300.3542 |
| 35 | 45 | 6 | AEX DL | NBR | 22.2140.3545 |
| 35 | 45 | 7 | AEX SL | NBR | 22.2300.0354 |
| 35 | 47 | 6 | AEX SL | NBR | 22.2300.0356 |
| 35 | 47 | 7 | AEX SL | NBR | 22.2300.3547 |
| 35 | 50 | 7 | AEX DL | NBR | 22.2140.0095 |
| 35 | 50 | 10 | AEX SL | NBR | 22.2300.3550 |
| 35 | 50 | 10 | AEX DL | NBR | 22.2140.3550 |
| 35 | 50 | 12 | AEX SL | NBR | 22.2300.3551 |
| 35 | 52 | 10 | AEX DL | NBR | 22.2140.3510 |
| 35 | 52 | 12 | AEX DL | NBR | 22.2140.5212 |
| 35 | 52 | 12 | T2 SL | NBR | 22.2350.0356 |
| 35 | 55 | 8 | AEX DL | NBR | 22.2140.3555 |
| 35 | 56 | 10 | AEX DL | NBR | 22.2140.3556 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|----|----|-----|----------|----------|---------------------|
| 35 | 56 | 12 | AEX DL | NBR | 22.2140.3512 |
| 35 | 58 | 10 | AEX SL | NBR | 22.2300.3558 |
| 35 | 60 | 10 | AEX SL | NBR | 22.2300.3560 |
| 35 | 60 | 10 | T2 SL | NBR | 22.2350.3560 |
| 35 | 60 | 12 | T2 SL | NBR | 22.2350.0351 |
| 35 | 62 | 5 | AEX SL | NBR | 22.2300.3565 |
| 35 | 62 | 7 | AEX SL | NBR | 22.2300.0627 |
| 35 | 62 | 7 | AEX DL | NBR | 22.2140.0627 |
| 35 | 62 | 8 | AEX SL | NBR | 22.2300.3568 |
| 35 | 62 | 10 | AEX DL | NBR | 22.2140.3562 |
| 35 | 62 | 12 | AEX SL | NBR | 22.2300.3562 |
| 35 | 62 | 12 | AEX DL | NBR | 22.2140.3662 |
| 35 | 72 | 10 | AEX SL | NBR | 22.2300.3572 |
| 35 | 72 | 10 | AEX DL | NBR | 22.2140.3333 |
| 35 | 72 | 12 | AEX SL | NBR | 22.2300.7212 |
| 35 | 80 | 13 | AEX DL | NBR | 22.2140.3580 |
| 35 | 81 | 10 | AEX DL | NBR | 22.2140.0096 |
| 35 | 42 | 4 | AN SL SR | NBR | 22.2122.3542 |
| 35 | 42 | 8 | DL | NBR | 22.2110.3598 |
| 35 | 44 | 6 | SL | NBR | 22.2100.3544 |
| 35 | 44 | 7 | SL | FKM | 22.2200.3544 |
| 35 | 45 | 4 | AN SL SR | NBR | 22.2122.3545 |
| 35 | 45 | 6 | SL | NBR | 22.2100.3545 |
| 35 | 45 | 7 | SL | NBR | 22.2100.0354 |
| 35 | 45 | 7 | SL | FKM | 22.2200.3545 |
| 35 | 45 | 7 | DL | NBR | 22.2110.3545 |
| 35 | 45 | 7 | DL | FKM | 22.2210.0026 |
| 35 | 45 | 8 | DL | NBR | 22.2110.4508 |
| 35 | 45 | 10 | SL | NBR | 22.2100.0069 |
| 35 | 46 | 6,5 | SL | NBR | 22.2100.3566 |
| 35 | 47 | 5 | SL | NBR | 22.2100.4705 |
| 35 | 47 | 6 | SL | NBR | 22.2100.4706 |
| 35 | 47 | 6 | SL | FKM | 22.2200.2200 |
| 35 | 47 | 7 | SL | NBR | 22.2100.3547 |
| 35 | 47 | 7 | SL | FKM | 22.2200.3547 |
| 35 | 47 | 7 | DL | NBR | 22.2110.3547 |
| 35 | 47 | 7 | DL | FKM | 22.2210.3547 |
| 35 | 47 | 8 | SL | NBR | 22.2100.4708 |
| 35 | 47 | 8 | DL | NBR | 22.2110.0035 |
| 35 | 47 | 10 | SL | NBR | 22.2100.3540 |
| 35 | 47 | 10 | SL | FKM | 22.2200.3510 |
| 35 | 47 | 10 | DL | NBR | 22.2110.4710 |
| 35 | 48 | 7 | DL | NBR | 22.2110.0487 |
| 35 | 48 | 7 | DL | FKM | 22.2210.3548 |
| 35 | 48 | 8 | SL | NBR | 22.2100.4808 |
| 35 | 48 | 8 | DL | NBR | 22.2110.0003 |

| ID | OD | H | Type | Material | Item no. |
|----|----|-----|------|----------|---------------------|
| 35 | 48 | 9 | SL | FKM | 22.2200.3548 |
| 35 | 48 | 10 | DL | NBR | 22.2110.0481 |
| 35 | 50 | 5 | SL | NBR | 22.2100.0359 |
| 35 | 50 | 7 | SL | NBR | 22.2100.3550 |
| 35 | 50 | 7 | SL | FKM | 22.2200.3557 |
| 35 | 50 | 7 | DL | NBR | 22.2110.3550 |
| 35 | 50 | 8 | SL | NBR | 22.2100.0355 |
| 35 | 50 | 8 | SL | FKM | 22.2200.3558 |
| 35 | 50 | 8 | DL | NBR | 22.2110.5008 |
| 35 | 50 | 8 | DL | FKM | 22.2210.3550 |
| 35 | 50 | 10 | SL | NBR | 22.2100.0350 |
| 35 | 50 | 10 | DL | NBR | 22.2110.5010 |
| 35 | 50 | 10 | DL | FKM | 22.2210.0374 |
| 35 | 50 | 12 | DL | NBR | 22.2110.0654 |
| 35 | 51 | 8 | SL | NBR | 22.2100.0655 |
| 35 | 52 | 5,5 | DL | FKM | 22.2210.0054 |
| 35 | 52 | 6 | SL | FKM | 22.2200.0008 |
| 35 | 52 | 6 | DL | NBR | 22.2110.0356 |
| 35 | 52 | 6 | DL | FKM | 22.2210.3552 |
| 35 | 52 | 7 | SL | NBR | 22.2100.3552 |
| 35 | 52 | 7 | SL | FKM | 22.2200.3552 |
| 35 | 52 | 7 | DL | NBR | 22.2110.0657 |
| 35 | 52 | 7 | DL | FKM | 22.2210.0357 |
| 35 | 52 | 8 | SL | NBR | 22.2100.0352 |
| 35 | 52 | 8 | DL | NBR | 22.2110.0659 |
| 35 | 52 | 9 | DL | NBR | 22.2110.0660 |
| 35 | 52 | 10 | SL | NBR | 22.2100.3553 |
| 35 | 52 | 10 | SL | FKM | 22.2200.3551 |
| 35 | 52 | 10 | DL | NBR | 22.2110.3552 |
| 35 | 52 | 10 | DL | FKM | 22.2210.3510 |
| 35 | 52 | 12 | DL | NBR | 22.2110.0661 |
| 35 | 54 | 8 | DL | NBR | 22.2110.0663 |
| 35 | 54 | 10 | SL | NBR | 22.2100.0664 |
| 35 | 54 | 10 | SL | FKM | 22.2200.0214 |
| 35 | 54 | 10 | DL | NBR | 22.2110.0666 |
| 35 | 55 | 5 | SL | NBR | 22.2100.0667 |
| 35 | 55 | 7 | DL | FKM | 22.2210.3555 |
| 35 | 55 | 8 | SL | NBR | 22.2100.3555 |
| 35 | 55 | 8 | SL | FKM | 22.2200.1452 |
| 35 | 55 | 8 | DL | NBR | 22.2110.0667 |
| 35 | 55 | 10 | SL | NBR | 22.2100.0035 |
| 35 | 55 | 10 | SL | FKM | 22.2200.3555 |
| 35 | 55 | 10 | DL | NBR | 22.2110.3525 |
| 35 | 55 | 11 | SL | NBR | 22.2100.9799 |
| 35 | 55 | 11 | DL | NBR | 22.2110.3539 |
| 35 | 55 | 12 | SL | NBR | 22.2100.0673 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|----|----|-----|------|----------|---------------------|
| 35 | 55 | 12 | DL | NBR | 22.2110.0673 |
| 35 | 56 | 8 | SL | NBR | 22.2100.0674 |
| 35 | 56 | 8 | SL | FKM | 22.2200.5486 |
| 35 | 56 | 10 | SL | NBR | 22.2100.3557 |
| 35 | 56 | 10 | DL | NBR | 22.2110.6674 |
| 35 | 56 | 12 | DL | NBR | 22.2110.0678 |
| 35 | 56 | 12 | DL | FKM | 22.2210.3556 |
| 35 | 57 | 8 | DL | NBR | 22.2110.3557 |
| 35 | 57 | 10 | SL | NBR | 22.2100.3567 |
| 35 | 58 | 7 | DL | NBR | 22.2110.0676 |
| 35 | 58 | 7,5 | SL | FKM | 22.2200.5481 |
| 35 | 58 | 8 | DL | NBR | 22.2110.0679 |
| 35 | 58 | 10 | SL | NBR | 22.2100.0681 |
| 35 | 58 | 10 | SL | FKM | 22.2200.5968 |
| 35 | 58 | 10 | DL | NBR | 22.2110.0680 |
| 35 | 58 | 12 | DL | NBR | 22.2110.0683 |
| 35 | 60 | 8 | DL | NBR | 22.2110.5938 |
| 35 | 60 | 10 | SL | FKM | 22.2200.3560 |
| 35 | 60 | 10 | DL | NBR | 22.2110.1960 |
| 35 | 62 | 6 | DL | NBR | 22.2110.0624 |
| 35 | 62 | 7 | SL | NBR | 22.2100.3562 |
| 35 | 62 | 7 | SL | FKM | 22.2200.3562 |
| 35 | 62 | 7 | DL | NBR | 22.2110.1962 |
| 35 | 62 | 7 | DL | FKM | 22.2210.0356 |
| 35 | 62 | 8 | SL | NBR | 22.2100.1963 |
| 35 | 62 | 8 | SL | FKM | 22.2200.3508 |
| 35 | 62 | 8 | DL | NBR | 22.2110.1964 |
| 35 | 62 | 8 | DL | FKM | 22.2210.3562 |
| 35 | 62 | 10 | SL | NBR | 22.2100.0356 |
| 35 | 62 | 10 | SL | FKM | 22.2200.3561 |
| 35 | 62 | 10 | DL | NBR | 22.2110.1965 |
| 35 | 62 | 10 | DL | FKM | 22.2210.6210 |
| 35 | 62 | 12 | SL | NBR | 22.2100.1965 |
| 35 | 62 | 12 | DL | NBR | 22.2110.3562 |
| 35 | 62 | 12 | DL | FKM | 22.2210.0069 |
| 35 | 65 | 9 | SL | NBR | 22.2100.1958 |
| 35 | 65 | 9 | SL | FKM | 22.2200.3565 |
| 35 | 65 | 10 | SL | NBR | 22.2100.3565 |
| 35 | 65 | 10 | DL | NBR | 22.2110.1958 |
| 35 | 65 | 12 | SL | FKM | 22.2200.3564 |
| 35 | 68 | 6 | DL | NBR | 22.2110.0686 |
| 35 | 68 | 10 | SL | NBR | 22.2100.1959 |
| 35 | 68 | 10 | DL | NBR | 22.2110.1959 |
| 35 | 68 | 12 | SL | FKM | 22.2200.3512 |
| 35 | 68 | 12 | DL | NBR | 22.2110.3568 |
| 35 | 70 | 10 | DL | NBR | 22.2110.3091 |

| ID | OD | H | Type | Material | Item no. |
|----|----|-----|--------|----------|---------------------|
| 35 | 72 | 7 | SL | NBR | 22.2100.9549 |
| 35 | 72 | 7 | SL | FKM | 22.2200.5256 |
| 35 | 72 | 7 | DL | NBR | 22.2110.5120 |
| 35 | 72 | 7 | DL | FKM | 22.2210.5256 |
| 35 | 72 | 8 | DL | NBR | 22.2110.1950 |
| 35 | 72 | 10 | SL | NBR | 22.2100.3572 |
| 35 | 72 | 10 | DL | NBR | 22.2110.2561 |
| 35 | 72 | 10 | DL | FKM | 22.2210.0081 |
| 35 | 72 | 12 | SL | NBR | 22.2100.3526 |
| 35 | 72 | 12 | SL | FKM | 22.2200.3573 |
| 35 | 72 | 12 | DL | NBR | 22.2110.3572 |
| 35 | 72 | 12 | DL | FKM | 22.2210.3572 |
| 35 | 75 | 8 | DL | NBR | 22.2110.3575 |
| 35 | 76 | 9 | DL | NBR | 22.2110.3576 |
| 35 | 78 | 8 | DL | NBR | 22.2110.3578 |
| 35 | 80 | 8 | DL | NBR | 22.2110.0358 |
| 35 | 80 | 10 | SL | NBR | 22.2100.3579 |
| 35 | 80 | 10 | SL | FKM | 22.2200.3580 |
| 35 | 80 | 10 | DL | NBR | 22.2110.3580 |
| 35 | 80 | 12 | SL | NBR | 22.2100.3580 |
| 35 | 80 | 12 | DL | NBR | 22.2110.0798 |
| 35 | 80 | 13 | DL | NBR | 22.2110.3581 |
| 36 | 52 | 9 | AEX SL | NBR | 22.2300.3659 |
| 36 | 68 | 10 | AEX DL | NBR | 22.2140.7777 |
| 36 | 47 | 7 | SL | NBR | 22.2100.3647 |
| 36 | 47 | 7 | DL | NBR | 22.2110.3647 |
| 36 | 48 | 10 | SL | NBR | 22.2100.3648 |
| 36 | 48 | 10 | SL | FKM | 22.2200.3648 |
| 36 | 48 | 10 | DL | NBR | 22.2110.8964 |
| 36 | 50 | 6 | DL | NBR | 22.2110.3650 |
| 36 | 50 | 7 | SL | NBR | 22.2100.3650 |
| 36 | 50 | 7 | DL | NBR | 22.2110.5678 |
| 36 | 50 | 7 | DL | FKM | 22.2210.3650 |
| 36 | 50 | 8 | DL | NBR | 22.2110.0368 |
| 36 | 50 | 10 | SL | FKM | 22.2200.3650 |
| 36 | 51 | 8 | DL | NBR | 22.2110.4185 |
| 36 | 52 | 7 | SL | NBR | 22.2100.3652 |
| 36 | 52 | 7 | SL | FKM | 22.2200.3652 |
| 36 | 52 | 7 | DL | NBR | 22.2110.0050 |
| 36 | 52 | 7 | DL | FKM | 22.2210.3636 |
| 36 | 52 | 8 | DL | NBR | 22.2110.5208 |
| 36 | 52 | 9 | DL | FKM | 22.2210.0369 |
| 36 | 52 | 10 | DL | NBR | 22.2110.3651 |
| 36 | 54 | 7 | DL | NBR | 22.2110.7654 |
| 36 | 54 | 7,5 | SL | NBR | 22.2100.3655 |
| 36 | 54 | 10 | SL | NBR | 22.2100.0481 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|-------|-------|------|----------|----------|---------------------|
| 36 | 54 | 11 | DL | NBR | 22.2110.3657 |
| 36 | 56 | 6 | SL | NBR | 22.2100.3656 |
| 36 | 56 | 9 | DL | NBR | 22.2110.3656 |
| 36 | 56 | 10 | SL | NBR | 22.2100.9318 |
| 36 | 58 | 9 | SL | NBR | 22.2100.0988 |
| 36 | 58 | 10 | SL | NBR | 22.2100.3658 |
| 36 | 58 | 12 | SL | NBR | 22.2100.3558 |
| 36 | 58 | 12 | DL | NBR | 22.2110.8510 |
| 36 | 60 | 10 | DL | NBR | 22.2110.3659 |
| 36 | 62 | 7 | SL | NBR | 22.2100.3663 |
| 36 | 62 | 7 | DL | NBR | 22.2110.3662 |
| 36 | 62 | 10 | SL | NBR | 22.2100.3665 |
| 36 | 62 | 10 | SL | FKM | 22.2200.3661 |
| 36 | 68 | 10 | DL | NBR | 22.2110.3668 |
| 36 | 75 | 12 | SL | NBR | 22.2100.3675 |
| 36 | 83 | 12 | SL | NBR | 22.2100.3683 |
| 36,53 | 53,98 | 7,95 | AEX DL | NBR | 22.2140.3653 |
| 37 | 62 | 9 | T2 SL | NBR | 22.2350.3762 |
| 37 | 80 | 13 | T2 SL | NBR | 22.2350.3780 |
| 37 | 47 | 4 | AN SL SR | NBR | 22.2122.3747 |
| 37 | 50 | 7 | DL | NBR | 22.2110.3750 |
| 37 | 50 | 10 | SL | NBR | 22.2100.3750 |
| 37 | 52 | 8 | SL | NBR | 22.2100.3752 |
| 37 | 52 | 10 | SL | NBR | 22.2100.3359 |
| 37 | 52 | 10 | SL | FKM | 22.2200.3752 |
| 37 | 52 | 10 | DL | NBR | 22.2110.3852 |
| 37 | 53 | 7 | DL | NBR | 22.2110.3753 |
| 37 | 58 | 13 | DL | NBR | 22.2110.3758 |
| 37 | 62 | 7 | DL | NBR | 22.2110.3764 |
| 37 | 62 | 8 | SL | NBR | 22.2100.3762 |
| 37 | 62 | 8 | SL | FKM | 22.2200.3762 |
| 37 | 62 | 8 | DL | NBR | 22.2110.3762 |
| 37 | 62 | 10 | SL | NBR | 22.2100.5764 |
| 37 | 62 | 12 | SL | NBR | 22.2100.6425 |
| 37 | 66 | 9,5 | DL | NBR | 22.2110.0361 |
| 37 | 72 | 12 | SL | NBR | 22.2100.3772 |
| 38 | 50 | 7 | AEX SL | NBR | 22.2300.3850 |
| 38 | 52 | 7 | AEX DL | NBR | 22.2140.0888 |
| 38 | 54 | 6 | AEX DL | NBR | 22.2140.3854 |
| 38 | 56 | 10 | AEX SL | NBR | 22.2300.3856 |
| 38 | 58 | 12 | T2 SL | NBR | 22.2350.3858 |
| 38 | 62 | 7 | AEX DL | NBR | 22.2140.3862 |
| 38 | 62 | 10 | T2 SL | NBR | 22.2350.3862 |
| 38 | 65 | 10 | T2 SL | NBR | 22.2350.3865 |
| 38 | 65 | 12 | AEX SL | NBR | 22.2300.3865 |
| 38 | 68 | 12 | AEX DL | NBR | 22.2140.3868 |

| ID | OD | H | Type | Material | Item no. |
|----|----|-----|----------|----------|---------------------|
| 38 | 74 | 11 | AEX DL | NBR | 22.2140.3874 |
| 38 | 47 | 10 | DL | NBR | 22.2110.3847 |
| 38 | 48 | 4 | AN SL SR | NBR | 22.2122.3848 |
| 38 | 48 | 6 | SL | NBR | 22.2100.5784 |
| 38 | 48 | 7 | SL | NBR | 22.2100.3848 |
| 38 | 48 | 10 | DL | NBR | 22.2110.3848 |
| 38 | 50 | 7 | SL | NBR | 22.2100.3850 |
| 38 | 50 | 7 | DL | NBR | 22.2110.8434 |
| 38 | 50 | 7 | DL | FKM | 22.2210.3850 |
| 38 | 50 | 8 | DL | NBR | 22.2110.3850 |
| 38 | 50 | 10 | DL | NBR | 22.2110.7184 |
| 38 | 51 | 7 | DL | NBR | 22.2110.5486 |
| 38 | 52 | 6 | DL | NBR | 22.2110.1645 |
| 38 | 52 | 7 | SL | NBR | 22.2100.3535 |
| 38 | 52 | 7 | SL | FKM | 22.2200.3857 |
| 38 | 52 | 7 | DL | NBR | 22.2110.1152 |
| 38 | 52 | 7 | DL | FKM | 22.2210.3852 |
| 38 | 52 | 8 | SL | NBR | 22.2100.3852 |
| 38 | 52 | 8 | SL | FKM | 22.2200.3852 |
| 38 | 52 | 8 | DL | NBR | 22.2110.1963 |
| 38 | 52 | 9 | SL | NBR | 22.2100.1479 |
| 38 | 52 | 10 | SL | FKM | 22.2200.3851 |
| 38 | 52 | 10 | DL | NBR | 22.2110.8402 |
| 38 | 53 | 8 | SL | NBR | 22.2100.6984 |
| 38 | 53 | 10 | DL | NBR | 22.2110.3853 |
| 38 | 54 | 6,5 | SL | NBR | 22.2100.8987 |
| 38 | 54 | 6,5 | SL | FKM | 22.2200.3685 |
| 38 | 54 | 10 | SL | NBR | 22.2100.1851 |
| 38 | 54 | 10 | DL | NBR | 22.2110.7943 |
| 38 | 55 | 6 | SL | NBR | 22.2100.5654 |
| 38 | 55 | 6 | SL | FKM | 22.2200.3855 |
| 38 | 55 | 7 | SL | NBR | 22.2100.1173 |
| 38 | 55 | 7 | DL | NBR | 22.2110.6921 |
| 38 | 55 | 7 | DL | FKM | 22.2210.3666 |
| 38 | 55 | 8 | DL | NBR | 22.2110.5148 |
| 38 | 55 | 10 | DL | NBR | 22.2110.2053 |
| 38 | 55 | 10 | DL | FKM | 22.2210.3855 |
| 38 | 56 | 7 | SL | NBR | 22.2100.3856 |
| 38 | 56 | 10 | SL | NBR | 22.2100.3851 |
| 38 | 56 | 10 | SL | FKM | 22.2200.3856 |
| 38 | 56 | 10 | DL | NBR | 22.2110.4787 |
| 38 | 56 | 12 | SL | NBR | 22.2100.8605 |
| 38 | 57 | 7 | DL | NBR | 22.2110.0510 |
| 38 | 57 | 10 | SL | NBR | 22.2100.3857 |
| 38 | 58 | 7 | DL | NBR | 22.2110.3594 |
| 38 | 58 | 8 | SL | NBR | 22.2100.3888 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|-------|-------|------|--------|----------|---------------------|
| 38 | 58 | 10 | DL | NBR | 22.2110.8442 |
| 38 | 58 | 11 | DL | NBR | 22.2110.2110 |
| 38 | 60 | 7 | SL | FKM | 22.2200.3694 |
| 38 | 60 | 7 | DL | NBR | 22.2110.3860 |
| 38 | 60 | 7 | DL | FKM | 22.2210.3694 |
| 38 | 60 | 8 | DL | NBR | 22.2110.6564 |
| 38 | 60 | 10 | SL | NBR | 22.2100.3861 |
| 38 | 60 | 10 | SL | FKM | 22.2200.3860 |
| 38 | 60 | 10 | DL | NBR | 22.2110.3843 |
| 38 | 60 | 10 | DL | FKM | 22.2210.3860 |
| 38 | 62 | 7 | SL | NBR | 22.2100.4153 |
| 38 | 62 | 7 | DL | NBR | 22.2110.3678 |
| 38 | 62 | 7 | DL | FKM | 22.2210.3862 |
| 38 | 62 | 8 | DL | NBR | 22.2110.2311 |
| 38 | 62 | 10 | SL | NBR | 22.2100.0386 |
| 38 | 62 | 10 | DL | NBR | 22.2110.7546 |
| 38 | 62 | 12 | DL | NBR | 22.2110.3862 |
| 38 | 63 | 9 | DL | NBR | 22.2110.2513 |
| 38 | 64 | 12 | SL | NBR | 22.2100.5498 |
| 38 | 65 | 8 | SL | NBR | 22.2100.0465 |
| 38 | 65 | 8 | SL | FKM | 22.2200.3865 |
| 38 | 65 | 10 | DL | NBR | 22.2110.5446 |
| 38 | 68 | 10 | DL | NBR | 22.2110.6548 |
| 38 | 70 | 10 | SL | NBR | 22.2100.8759 |
| 38 | 72 | 8 | DL | NBR | 22.2110.9898 |
| 38 | 72 | 10 | SL | NBR | 22.2100.5783 |
| 38 | 72 | 10 | DL | NBR | 22.2110.5986 |
| 38 | 72 | 12 | SL | NBR | 22.2100.6969 |
| 38 | 74 | 11 | DL | NBR | 22.2110.8951 |
| 38 | 75 | 10 | DL | NBR | 22.2110.3875 |
| 38 | 80 | 12 | SL | NBR | 22.2100.1841 |
| 38,1 | 53,98 | 7,93 | AEX DL | NBR | 22.2140.0381 |
| 38,1 | 59,13 | 9,52 | AEX DL | NBR | 22.2140.0383 |
| 38,1 | 60,33 | 9,52 | T2 SL | NBR | 22.2350.0069 |
| 38,1 | 63,5 | 7,94 | AEX DL | NBR | 22.2140.0384 |
| 39 | 52 | 8 | SL | NBR | 22.2100.4363 |
| 39 | 52 | 10 | DL | NBR | 22.2110.3952 |
| 39 | 55 | 7 | SL | FKM | 22.2200.3955 |
| 39 | 64 | 9 | DL | NBR | 22.2110.0403 |
| 39 | 65 | 9 | SL | NBR | 22.2100.3965 |
| 39,68 | 63,5 | 12,7 | T2 DL | NBR | 22.2354.0056 |
| 39,69 | 63,5 | 12,7 | T2 SL | NBR | 22.2350.0401 |
| 39,69 | 68,26 | 9,52 | AEX SL | NBR | 22.2300.3971 |
| 40 | 47 | 4 | AEX SL | NBR | 22.2300.4047 |
| 40 | 47 | 4 | AEX DL | NBR | 22.2140.4047 |
| 40 | 52 | 7 | AEX SL | NBR | 22.2300.4052 |

| ID | OD | H | Type | Material | Item no. |
|----|----|----|----------|----------|---------------------|
| 40 | 52 | 7 | AEX DL | NBR | 22.2140.4052 |
| 40 | 52 | 8 | AEX SL | NBR | 22.2300.4058 |
| 40 | 54 | 8 | AEX DL | NBR | 22.2140.0548 |
| 40 | 55 | 6 | AEX DL | NBR | 22.2140.4055 |
| 40 | 55 | 8 | AEX SL | NBR | 22.2300.0408 |
| 40 | 55 | 8 | AEX DL | NBR | 22.2140.0508 |
| 40 | 55 | 10 | AEX SL | NBR | 22.2300.5510 |
| 40 | 58 | 10 | AEX SL | NBR | 22.2300.4051 |
| 40 | 60 | 10 | AEX DL | NBR | 22.2140.4060 |
| 40 | 60 | 10 | T2 SL | NBR | 22.2350.4060 |
| 40 | 62 | 7 | AEX SL | NBR | 22.2300.4067 |
| 40 | 62 | 7 | AEX DL | NBR | 22.2140.1485 |
| 40 | 62 | 8 | AEX SL | NBR | 22.2300.0406 |
| 40 | 62 | 10 | AEX SL | NBR | 22.2300.4621 |
| 40 | 62 | 10 | AEX DL | NBR | 22.2140.0621 |
| 40 | 62 | 12 | AEX SL | NBR | 22.2300.4062 |
| 40 | 62 | 12 | AEX DL | NBR | 22.2140.6211 |
| 40 | 62 | 12 | T2 SL | NBR | 22.2350.4023 |
| 40 | 65 | 10 | AEX DL | NBR | 22.2140.4065 |
| 40 | 68 | 7 | AEX SL | NBR | 22.2300.4087 |
| 40 | 68 | 10 | T2 SL | NBR | 22.2350.4068 |
| 40 | 72 | 10 | AEX SL | NBR | 22.2300.4010 |
| 40 | 72 | 12 | AEX SL | NBR | 22.2300.4072 |
| 40 | 80 | 10 | T2 SL | NBR | 22.2350.4080 |
| 40 | 86 | 10 | AEX DL | NBR | 22.2140.0097 |
| 40 | 90 | 12 | T2 SL | NBR | 22.2350.4090 |
| 40 | 47 | 4 | AN SL SR | NBR | 22.2122.4047 |
| 40 | 50 | 4 | AN SL SR | NBR | 22.2122.4050 |
| 40 | 50 | 4 | SL SR | NBR | 22.2160.4050 |
| 40 | 50 | 5 | SL | NBR | 22.2100.0369 |
| 40 | 50 | 5 | DL | NBR | 22.2110.4043 |
| 40 | 50 | 7 | SL | NBR | 22.2100.4050 |
| 40 | 50 | 7 | DL | NBR | 22.2110.3793 |
| 40 | 50 | 8 | SL | NBR | 22.2100.7534 |
| 40 | 50 | 8 | SL | FKM | 22.2200.4050 |
| 40 | 50 | 8 | DL | NBR | 22.2110.2121 |
| 40 | 50 | 10 | SL | NBR | 22.2100.0379 |
| 40 | 51 | 6 | DL | NBR | 22.2110.4051 |
| 40 | 52 | 5 | SL | NBR | 22.2100.3784 |
| 40 | 52 | 5 | DL | NBR | 22.2110.0405 |
| 40 | 52 | 6 | SL | NBR | 22.2100.4052 |
| 40 | 52 | 6 | SL | FKM | 22.2200.6060 |
| 40 | 52 | 6 | DL | NBR | 22.2110.9685 |
| 40 | 52 | 7 | SL | NBR | 22.2100.0405 |
| 40 | 52 | 7 | SL | FKM | 22.2200.0049 |
| 40 | 52 | 7 | DL | NBR | 22.2110.4052 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|----|----|-----|------|----------|---------------------|
| 40 | 52 | 7 | DL | FKM | 22.2210.4052 |
| 40 | 52 | 8 | SL | NBR | 22.2100.7212 |
| 40 | 52 | 8 | SL | FKM | 22.2200.4088 |
| 40 | 52 | 8 | DL | NBR | 22.2110.2223 |
| 40 | 52 | 9 | DL | NBR | 22.2110.1322 |
| 40 | 52 | 10 | SL | NBR | 22.2100.9898 |
| 40 | 52 | 10 | SL | FKM | 22.2200.5054 |
| 40 | 52 | 10 | DL | NBR | 22.2110.8889 |
| 40 | 54 | 7 | DL | NBR | 22.2110.1144 |
| 40 | 55 | 6 | DL | FKM | 22.2210.4055 |
| 40 | 55 | 6,5 | SL | NBR | 22.2100.5540 |
| 40 | 55 | 7 | SL | NBR | 22.2100.4058 |
| 40 | 55 | 7 | SL | FKM | 22.2200.4057 |
| 40 | 55 | 7 | DL | NBR | 22.2110.8891 |
| 40 | 55 | 7 | DL | FKM | 22.2210.4051 |
| 40 | 55 | 8 | SL | NBR | 22.2100.4055 |
| 40 | 55 | 8 | SL | FKM | 22.2200.4055 |
| 40 | 55 | 8 | DL | NBR | 22.2110.3457 |
| 40 | 55 | 8 | DL | FKM | 22.2210.2548 |
| 40 | 55 | 9 | SL | NBR | 22.2100.4009 |
| 40 | 55 | 10 | SL | NBR | 22.2100.4000 |
| 40 | 55 | 10 | SL | FKM | 22.2200.2288 |
| 40 | 55 | 10 | DL | NBR | 22.2110.8892 |
| 40 | 56 | 7 | SL | NBR | 22.2100.4056 |
| 40 | 56 | 7 | DL | NBR | 22.2110.4056 |
| 40 | 56 | 8 | SL | NBR | 22.2100.0404 |
| 40 | 56 | 8 | SL | FKM | 22.2200.4058 |
| 40 | 56 | 8 | DL | NBR | 22.2110.4057 |
| 40 | 56 | 8 | DL | FKM | 22.2210.0079 |
| 40 | 56 | 10 | SL | NBR | 22.2100.0040 |
| 40 | 56 | 10 | SL | FKM | 22.2200.4056 |
| 40 | 56 | 10 | DL | NBR | 22.2110.5741 |
| 40 | 57 | 10 | DL | NBR | 22.2110.5263 |
| 40 | 58 | 7 | SL | NBR | 22.2100.9865 |
| 40 | 58 | 8 | SL | NBR | 22.2100.8703 |
| 40 | 58 | 8 | DL | NBR | 22.2110.5632 |
| 40 | 58 | 9 | SL | NBR | 22.2100.4599 |
| 40 | 58 | 9 | DL | NBR | 22.2110.1970 |
| 40 | 58 | 10 | SL | NBR | 22.2100.0458 |
| 40 | 58 | 10 | SL | FKM | 22.2200.4059 |
| 40 | 58 | 10 | DL | NBR | 22.2110.4058 |
| 40 | 59 | 9,5 | DL | NBR | 22.2110.4059 |
| 40 | 60 | 7 | SL | NBR | 22.2100.4061 |
| 40 | 60 | 7 | SL | FKM | 22.2200.4061 |
| 40 | 60 | 7 | DL | NBR | 22.2110.4067 |
| 40 | 60 | 8 | DL | NBR | 22.2110.4510 |

| ID | OD | H | Type | Material | Item no. |
|----|----|----|------|----------|---------------------|
| 40 | 60 | 10 | SL | NBR | 22.2100.4060 |
| 40 | 60 | 10 | SL | FKM | 22.2200.4060 |
| 40 | 60 | 10 | DL | NBR | 22.2110.4060 |
| 40 | 60 | 12 | SL | NBR | 22.2100.0406 |
| 40 | 60 | 12 | DL | NBR | 22.2110.3012 |
| 40 | 61 | 10 | SL | NBR | 22.2100.6666 |
| 40 | 62 | 5 | SL | NBR | 22.2100.3306 |
| 40 | 62 | 6 | DL | NBR | 22.2110.0412 |
| 40 | 62 | 7 | SL | NBR | 22.2100.4062 |
| 40 | 62 | 7 | SL | FKM | 22.2200.4067 |
| 40 | 62 | 7 | DL | NBR | 22.2110.1874 |
| 40 | 62 | 7 | DL | FKM | 22.2210.4062 |
| 40 | 62 | 8 | SL | NBR | 22.2100.6240 |
| 40 | 62 | 8 | DL | NBR | 22.2110.6962 |
| 40 | 62 | 9 | DL | NBR | 22.2110.1721 |
| 40 | 62 | 10 | SL | NBR | 22.2100.0401 |
| 40 | 62 | 10 | SL | FKM | 22.2200.4062 |
| 40 | 62 | 10 | DL | NBR | 22.2110.4062 |
| 40 | 62 | 10 | DL | FKM | 22.2210.4060 |
| 40 | 62 | 11 | DL | NBR | 22.2110.1093 |
| 40 | 62 | 12 | DL | NBR | 22.2110.6246 |
| 40 | 62 | 14 | DL | NBR | 22.2110.0014 |
| 40 | 64 | 10 | DL | NBR | 22.2110.6440 |
| 40 | 65 | 8 | DL | NBR | 22.2110.8654 |
| 40 | 65 | 9 | SL | NBR | 22.2100.6584 |
| 40 | 65 | 10 | SL | NBR | 22.2100.4065 |
| 40 | 65 | 10 | DL | NBR | 22.2110.4207 |
| 40 | 65 | 10 | DL | FKM | 22.2210.4065 |
| 40 | 65 | 12 | SL | NBR | 22.2100.4613 |
| 40 | 65 | 12 | SL | FKM | 22.2200.0324 |
| 40 | 65 | 12 | DL | NBR | 22.2110.3078 |
| 40 | 65 | 13 | DL | NBR | 22.2110.4065 |
| 40 | 65 | 14 | DL | NBR | 22.2110.6310 |
| 40 | 67 | 8 | DL | NBR | 22.2110.9841 |
| 40 | 68 | 6 | DL | NBR | 22.2110.4066 |
| 40 | 68 | 7 | DL | NBR | 22.2110.4068 |
| 40 | 68 | 10 | SL | NBR | 22.2100.4068 |
| 40 | 68 | 10 | SL | FKM | 22.2200.4068 |
| 40 | 68 | 10 | DL | NBR | 22.2110.9410 |
| 40 | 68 | 10 | DL | FKM | 22.2210.4068 |
| 40 | 68 | 12 | SL | NBR | 22.2100.9451 |
| 40 | 68 | 12 | DL | NBR | 22.2110.1535 |
| 40 | 70 | 8 | SL | NBR | 22.2100.9586 |
| 40 | 70 | 8 | DL | NBR | 22.2110.4070 |
| 40 | 70 | 10 | SL | NBR | 22.2100.4070 |
| 40 | 70 | 10 | SL | FKM | 22.2200.4070 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|-------|-------|------|--------|----------|---------------------|
| 40 | 70 | 10 | DL | NBR | 22.2110.2996 |
| 40 | 70 | 12 | DL | NBR | 22.2110.1675 |
| 40 | 72 | 7 | SL | NBR | 22.2100.4071 |
| 40 | 72 | 7 | SL | FKM | 22.2200.4072 |
| 40 | 72 | 7 | DL | NBR | 22.2110.0789 |
| 40 | 72 | 7 | DL | FKM | 22.2210.4072 |
| 40 | 72 | 8 | DL | NBR | 22.2110.4072 |
| 40 | 72 | 10 | SL | NBR | 22.2100.4072 |
| 40 | 72 | 10 | DL | NBR | 22.2110.3812 |
| 40 | 72 | 12 | SL | NBR | 22.2100.5521 |
| 40 | 72 | 12 | DL | NBR | 22.2110.7245 |
| 40 | 75 | 7 | SL | NBR | 22.2100.4075 |
| 40 | 75 | 10 | DL | NBR | 22.2110.4075 |
| 40 | 78 | 10 | SL | NBR | 22.2100.4078 |
| 40 | 80 | 7 | DL | NBR | 22.2110.8007 |
| 40 | 80 | 8 | DL | NBR | 22.2110.4080 |
| 40 | 80 | 10 | SL | NBR | 22.2100.4080 |
| 40 | 80 | 10 | SL | FKM | 22.2200.4080 |
| 40 | 80 | 10 | DL | NBR | 22.2110.1212 |
| 40 | 80 | 10 | DL | FKM | 22.2210.4444 |
| 40 | 80 | 12 | SL | NBR | 22.2100.6687 |
| 40 | 80 | 12 | DL | NBR | 22.2110.5086 |
| 40 | 80 | 13 | SL | NBR | 22.2100.4013 |
| 40 | 80 | 13 | DL | NBR | 22.2110.0401 |
| 40 | 85 | 10 | SL | NBR | 22.2100.4085 |
| 40 | 85 | 10 | DL | NBR | 22.2110.8405 |
| 40 | 90 | 8 | DL | NBR | 22.2110.0709 |
| 40 | 90 | 9 | DL | NBR | 22.2110.4090 |
| 40 | 90 | 10 | SL | NBR | 22.2100.4090 |
| 40 | 90 | 10 | DL | NBR | 22.2110.4092 |
| 40 | 90 | 10 | DL | FKM | 22.2210.0030 |
| 40 | 90 | 12 | SL | NBR | 22.2100.5096 |
| 40 | 90 | 12 | DL | NBR | 22.2110.9095 |
| 40 | 90 | 12 | DL | FKM | 22.2210.4090 |
| 41 | 60 | 10 | AEX DL | NBR | 22.2140.8514 |
| 41 | 53 | 8 | DL | NBR | 22.2110.4153 |
| 41 | 55 | 9 | DL | NBR | 22.2110.1956 |
| 41 | 56 | 7 | DL | NBR | 22.2110.2156 |
| 41 | 56 | 8 | DL | NBR | 22.2110.6005 |
| 41,27 | 61,91 | 9,52 | AEX SL | NBR | 22.2300.0041 |
| 41,28 | 61,91 | 9,52 | T2 SL | NBR | 22.2350.4128 |
| 41,28 | 66,68 | 7,95 | AEX DL | NBR | 22.2140.0418 |
| 42 | 55 | 7 | AEX SL | NBR | 22.2300.3574 |
| 42 | 55 | 7 | AEX DL | NBR | 22.2140.4255 |
| 42 | 60 | 10 | T2 SL | NBR | 22.2350.4260 |
| 42 | 60 | 12 | T2 SL | NBR | 22.2350.0426 |

| ID | OD | H | Type | Material | Item no. |
|----|----|----|----------|----------|---------------------|
| 42 | 62 | 10 | AEX SL | NBR | 22.2300.4262 |
| 42 | 62 | 12 | AEX DL | NBR | 22.2140.4212 |
| 42 | 70 | 10 | T2 SL | NBR | 22.2350.4270 |
| 42 | 80 | 13 | T2 SL | NBR | 22.2350.4280 |
| 42 | 50 | 7 | SL | FKM | 22.2200.4250 |
| 42 | 52 | 4 | AN SL SR | NBR | 22.2122.4252 |
| 42 | 52 | 4 | DL | NBR | 22.2110.3002 |
| 42 | 52 | 7 | DL | NBR | 22.2110.0298 |
| 42 | 52 | 8 | DL | NBR | 22.2110.2300 |
| 42 | 54 | 5 | DL | NBR | 22.2110.4272 |
| 42 | 55 | 7 | SL | NBR | 22.2100.4255 |
| 42 | 55 | 7 | SL | FKM | 22.2200.4255 |
| 42 | 55 | 7 | DL | NBR | 22.2110.3473 |
| 42 | 55 | 7 | DL | FKM | 22.2210.4254 |
| 42 | 55 | 8 | SL | NBR | 22.2100.4254 |
| 42 | 55 | 8 | DL | NBR | 22.2110.5226 |
| 42 | 55 | 8 | DL | FKM | 22.2210.4255 |
| 42 | 55 | 10 | DL | NBR | 22.2110.5510 |
| 42 | 56 | 7 | SL | NBR | 22.2100.8789 |
| 42 | 56 | 7 | DL | NBR | 22.2110.0567 |
| 42 | 56 | 7 | DL | FKM | 22.2210.4256 |
| 42 | 56 | 10 | DL | NBR | 22.2110.5642 |
| 42 | 58 | 7 | DL | NBR | 22.2110.4258 |
| 42 | 58 | 8 | DL | NBR | 22.2110.6874 |
| 42 | 58 | 10 | SL | FKM | 22.2200.4258 |
| 42 | 58 | 10 | DL | NBR | 22.2110.5829 |
| 42 | 60 | 7 | DL | NBR | 22.2110.0402 |
| 42 | 60 | 8 | SL | NBR | 22.2100.0608 |
| 42 | 60 | 8 | DL | NBR | 22.2110.6078 |
| 42 | 60 | 10 | SL | NBR | 22.2100.4261 |
| 42 | 60 | 10 | SL | FKM | 22.2200.4260 |
| 42 | 60 | 10 | DL | NBR | 22.2110.3124 |
| 42 | 60 | 12 | SL | NBR | 22.2100.4260 |
| 42 | 60 | 12 | SL | FKM | 22.2200.0354 |
| 42 | 62 | 7 | SL | NBR | 22.2100.4262 |
| 42 | 62 | 7 | SL | FKM | 22.2200.4222 |
| 42 | 62 | 7 | DL | NBR | 22.2110.4262 |
| 42 | 62 | 7 | DL | FKM | 22.2210.4222 |
| 42 | 62 | 8 | SL | NBR | 22.2100.9151 |
| 42 | 62 | 8 | SL | FKM | 22.2200.0426 |
| 42 | 62 | 8 | DL | NBR | 22.2110.5191 |
| 42 | 62 | 8 | DL | FKM | 22.2210.4545 |
| 42 | 62 | 10 | SL | NBR | 22.2100.4200 |
| 42 | 62 | 10 | DL | NBR | 22.2110.2960 |
| 42 | 62 | 12 | SL | FKM | 22.2200.4261 |
| 42 | 64 | 7 | SL | NBR | 22.2100.0485 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|----|----|----|--------|----------|---------------------|
| 42 | 64 | 7 | DL | NBR | 22.2110.4264 |
| 42 | 65 | 8 | DL | NBR | 22.2110.9929 |
| 42 | 65 | 9 | DL | NBR | 22.2110.4875 |
| 42 | 65 | 10 | SL | NBR | 22.2100.4265 |
| 42 | 65 | 10 | DL | NBR | 22.2110.0974 |
| 42 | 65 | 12 | SL | FKM | 22.2200.2312 |
| 42 | 67 | 10 | DL | NBR | 22.2110.0910 |
| 42 | 68 | 8 | DL | FKM | 22.2210.4268 |
| 42 | 70 | 10 | DL | NBR | 22.2110.4270 |
| 42 | 70 | 12 | DL | NBR | 22.2110.2481 |
| 42 | 72 | 7 | SL | NBR | 22.2100.0408 |
| 42 | 72 | 8 | SL | NBR | 22.2100.9687 |
| 42 | 72 | 8 | SL | FKM | 22.2200.4272 |
| 42 | 72 | 8 | DL | NBR | 22.2110.9994 |
| 42 | 72 | 10 | SL | NBR | 22.2100.1765 |
| 42 | 72 | 10 | DL | NBR | 22.2110.9698 |
| 42 | 72 | 12 | DL | NBR | 22.2110.8965 |
| 42 | 75 | 10 | DL | NBR | 22.2110.0995 |
| 42 | 75 | 12 | DL | NBR | 22.2110.4275 |
| 42 | 76 | 12 | DL | NBR | 22.2110.8778 |
| 42 | 80 | 10 | SL | NBR | 22.2100.4280 |
| 42 | 80 | 10 | SL | FKM | 22.2200.4280 |
| 43 | 54 | 7 | DL | NBR | 22.2110.2165 |
| 43 | 55 | 7 | SL | NBR | 22.2100.4355 |
| 43 | 55 | 8 | DL | NBR | 22.2110.9427 |
| 43 | 58 | 7 | DL | NBR | 22.2110.4358 |
| 43 | 59 | 8 | DL | NBR | 22.2110.4359 |
| 43 | 60 | 10 | SL | NBR | 22.2100.4360 |
| 43 | 60 | 10 | SL | FKM | 22.2200.4360 |
| 43 | 60 | 10 | DL | NBR | 22.2110.4360 |
| 43 | 62 | 8 | DL | NBR | 22.2110.7325 |
| 43 | 62 | 10 | SL | FKM | 22.2200.4362 |
| 43 | 62 | 12 | DL | NBR | 22.2110.4364 |
| 43 | 65 | 8 | SL | NBR | 22.2100.4365 |
| 43 | 65 | 13 | SL | NBR | 22.2100.7733 |
| 43 | 66 | 10 | SL | NBR | 22.2100.8834 |
| 43 | 66 | 10 | SL | FKM | 22.2200.4366 |
| 43 | 66 | 10 | DL | NBR | 22.2110.4368 |
| 43 | 70 | 10 | DL | NBR | 22.2110.0452 |
| 43 | 70 | 12 | SL | FKM | 22.2200.4370 |
| 43 | 73 | 10 | DL | NBR | 22.2110.9505 |
| 43 | 75 | 10 | SL | NBR | 22.2100.6875 |
| 43 | 80 | 10 | SL | NBR | 22.2100.4380 |
| 44 | 56 | 7 | AEX SL | NBR | 22.2300.4456 |
| 44 | 58 | 7 | AEX SL | NBR | 22.2300.4458 |
| 44 | 62 | 12 | T2 SL | NBR | 22.2350.4462 |

| ID | OD | H | Type | Material | Item no. |
|-------|-------|------|-----------|----------|---------------------|
| 44 | 54 | 4,5 | SL | NBR | 22.2100.4454 |
| 44 | 55 | 7 | SL | NBR | 22.2100.0524 |
| 44 | 58 | 10 | SL | FKM | 22.2200.4458 |
| 44 | 60 | 7 | DL | NBR | 22.2110.0865 |
| 44 | 60 | 10 | SL | NBR | 22.2100.9764 |
| 44 | 60 | 10 | DL | NBR | 22.2110.5764 |
| 44 | 62 | 8 | SL | NBR | 22.2100.8549 |
| 44 | 62 | 8 | DL | NBR | 22.2110.8492 |
| 44 | 62 | 10 | SL | NBR | 22.2100.4462 |
| 44 | 62 | 10 | DL | NBR | 22.2110.4462 |
| 44 | 62 | 10 | DL | FKM | 22.2210.4462 |
| 44 | 65 | 8 | SL | FKM | 22.2200.4465 |
| 44 | 65 | 8 | DL | NBR | 22.2110.9456 |
| 44 | 65 | 10 | SL | NBR | 22.2100.6497 |
| 44 | 65 | 10 | SL | FKM | 22.2200.4410 |
| 44 | 65 | 11 | DL | NBR | 22.2110.9641 |
| 44 | 70 | 12 | DL | NBR | 22.2110.4470 |
| 44 | 72 | 10 | SL | NBR | 22.2100.4473 |
| 44 | 72 | 10 | SL | FKM | 22.2200.4472 |
| 44 | 72 | 10 | DL | NBR | 22.2110.4473 |
| 44 | 92 | 10 | DL | NBR | 22.2110.0404 |
| 44,45 | 57,15 | 6,35 | AEX SL SR | NBR | 22.2155.4445 |
| 44,45 | 61,93 | 7,95 | AEX DL | NBR | 22.2140.0044 |
| 45 | 52 | 4 | AEX SL SR | NBR | 22.2155.0613 |
| 45 | 55 | 7 | AEX SL | NBR | 22.2300.3002 |
| 45 | 60 | 7 | AEX DL | NBR | 22.2140.4507 |
| 45 | 60 | 10 | T2 SL | NBR | 22.2350.4560 |
| 45 | 62 | 7 | AEX SL | NBR | 22.2300.4562 |
| 45 | 62 | 8 | AEX SL | NBR | 22.2300.4198 |
| 45 | 62 | 10 | AEX SL | NBR | 22.2300.4510 |
| 45 | 65 | 12 | T2 DL | NBR | 22.2354.4565 |
| 45 | 68 | 12 | AEX DL | NBR | 22.2140.4512 |
| 45 | 70 | 10 | AEX SL | NBR | 22.2300.4570 |
| 45 | 72 | 8 | AEX SL | NBR | 22.2300.0451 |
| 45 | 72 | 10 | AEX SL | NBR | 22.2300.0310 |
| 45 | 72 | 12 | AEX DL | NBR | 22.2140.4572 |
| 45 | 74 | 12 | AEX DL | NBR | 22.2140.4574 |
| 45 | 75 | 10 | AEX DL | NBR | 22.2140.4401 |
| 45 | 75 | 10 | T2 SL | NBR | 22.2350.4575 |
| 45 | 75 | 12 | T2 SL | NBR | 22.2350.4512 |
| 45 | 85 | 10 | AEX SL | NBR | 22.2300.4585 |
| 45 | 85 | 10 | T2 SL | NBR | 22.2350.4585 |
| 45 | 52 | 4 | AN SL SR | NBR | 22.2122.4552 |
| 45 | 52 | 4 | DL | NBR | 22.2110.4550 |
| 45 | 52 | 5 | DL | NBR | 22.2110.0387 |
| 45 | 52 | 8 | SL | NBR | 22.2100.4552 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|----|----|-----|----------|----------|---------------------|
| 45 | 54 | 4,5 | DL | NBR | 22.2110.4554 |
| 45 | 55 | 4 | AN SL SR | NBR | 22.2122.4555 |
| 45 | 55 | 6 | DL | NBR | 22.2110.5545 |
| 45 | 55 | 7 | SL | NBR | 22.2100.4555 |
| 45 | 55 | 7 | SL | FKM | 22.2200.4555 |
| 45 | 55 | 8 | DL | NBR | 22.2110.3216 |
| 45 | 55 | 10 | SL | NBR | 22.2100.0455 |
| 45 | 55 | 10 | DL | NBR | 22.2110.2808 |
| 45 | 56 | 6 | SL | NBR | 22.2100.0456 |
| 45 | 56 | 7 | DL | NBR | 22.2110.4556 |
| 45 | 57 | 7 | DL | NBR | 22.2110.4557 |
| 45 | 58 | 7 | SL | NBR | 22.2100.3215 |
| 45 | 58 | 7 | DL | NBR | 22.2110.4558 |
| 45 | 58 | 7 | DL | FKM | 22.2210.4585 |
| 45 | 58 | 8 | SL | NBR | 22.2100.4588 |
| 45 | 58 | 10 | DL | NBR | 22.2110.0109 |
| 45 | 60 | 5 | DL | NBR | 22.2110.0455 |
| 45 | 60 | 7 | SL | NBR | 22.2100.0900 |
| 45 | 60 | 7 | SL | NBR | 22.2100.4560 |
| 45 | 60 | 7 | SL | FKM | 22.2200.4567 |
| 45 | 60 | 7 | DL | NBR | 22.2110.4560 |
| 45 | 60 | 7 | DL | FKM | 22.2210.4560 |
| 45 | 60 | 8 | SL | NBR | 22.2100.4561 |
| 45 | 60 | 8 | SL | FKM | 22.2200.4560 |
| 45 | 60 | 8 | DL | NBR | 22.2110.8645 |
| 45 | 60 | 8 | DL | FKM | 22.2210.5678 |
| 45 | 60 | 9 | DL | NBR | 22.2110.4569 |
| 45 | 60 | 10 | SL | NBR | 22.2100.4562 |
| 45 | 60 | 10 | SL | FKM | 22.2200.4563 |
| 45 | 60 | 10 | DL | NBR | 22.2110.4561 |
| 45 | 60 | 10 | DL | FKM | 22.2210.4555 |
| 45 | 60 | 12 | SL | NBR | 22.2100.2165 |
| 45 | 62 | 7 | SL | NBR | 22.2100.4563 |
| 45 | 62 | 7 | DL | NBR | 22.2110.2781 |
| 45 | 62 | 7 | DL | FKM | 22.2210.4562 |
| 45 | 62 | 8 | SL | NBR | 22.2100.2781 |
| 45 | 62 | 8 | SL | FKM | 22.2200.4562 |
| 45 | 62 | 8 | DL | NBR | 22.2110.4562 |
| 45 | 62 | 8 | DL | FKM | 22.2210.8474 |
| 45 | 62 | 9 | SL | NBR | 22.2100.4592 |
| 45 | 62 | 9 | DL | NBR | 22.2110.4590 |
| 45 | 62 | 10 | SL | NBR | 22.2100.4510 |
| 45 | 62 | 10 | SL | FKM | 22.2200.4561 |
| 45 | 62 | 10 | DL | NBR | 22.2110.6210 |
| 45 | 62 | 10 | DL | FKM | 22.2210.4510 |
| 45 | 62 | 12 | SL | NBR | 22.2100.4558 |

| ID | OD | H | Type | Material | Item no. |
|----|----|-----|------|----------|---------------------|
| 45 | 62 | 12 | SL | FKM | 22.2200.0374 |
| 45 | 62 | 12 | DL | NBR | 22.2110.4512 |
| 45 | 64 | 9,5 | SL | NBR | 22.2100.4564 |
| 45 | 65 | 5 | DL | NBR | 22.2110.4555 |
| 45 | 65 | 6 | SL | NBR | 22.2100.0466 |
| 45 | 65 | 7 | SL | NBR | 22.2100.5649 |
| 45 | 65 | 8 | SL | NBR | 22.2100.4565 |
| 45 | 65 | 8 | DL | NBR | 22.2110.4565 |
| 45 | 65 | 8 | DL | FKM | 22.2210.4565 |
| 45 | 65 | 10 | SL | NBR | 22.2100.4567 |
| 45 | 65 | 10 | SL | FKM | 22.2200.4565 |
| 45 | 65 | 10 | DL | NBR | 22.2110.1065 |
| 45 | 65 | 10 | DL | FKM | 22.2210.0554 |
| 45 | 65 | 12 | SL | NBR | 22.2100.4566 |
| 45 | 65 | 12 | DL | NBR | 22.2110.1558 |
| 45 | 66 | 6 | SL | NBR | 22.2100.6645 |
| 45 | 66 | 6 | SL | FKM | 22.2200.4566 |
| 45 | 66 | 10 | SL | NBR | 22.2100.1066 |
| 45 | 66 | 10 | SL | FKM | 22.2200.4471 |
| 45 | 68 | 8 | SL | NBR | 22.2100.0688 |
| 45 | 68 | 8 | DL | NBR | 22.2110.0688 |
| 45 | 68 | 10 | SL | NBR | 22.2100.4568 |
| 45 | 68 | 10 | SL | FKM | 22.2200.0045 |
| 45 | 68 | 10 | DL | NBR | 22.2110.2900 |
| 45 | 68 | 12 | DL | NBR | 22.2110.6335 |
| 45 | 70 | 10 | SL | NBR | 22.2100.6572 |
| 45 | 70 | 10 | DL | NBR | 22.2110.4192 |
| 45 | 70 | 12 | SL | NBR | 22.2100.6361 |
| 45 | 70 | 12 | SL | FKM | 22.2200.9587 |
| 45 | 70 | 12 | DL | NBR | 22.2110.8944 |
| 45 | 70 | 14 | SL | NBR | 22.2100.4548 |
| 45 | 72 | 7 | SL | NBR | 22.2100.5312 |
| 45 | 72 | 8 | SL | NBR | 22.2100.4572 |
| 45 | 72 | 8 | SL | FKM | 22.2200.0457 |
| 45 | 72 | 8 | DL | NBR | 22.2110.4572 |
| 45 | 72 | 8 | DL | FKM | 22.2210.4572 |
| 45 | 72 | 9 | SL | FKM | 22.2200.0459 |
| 45 | 72 | 10 | SL | NBR | 22.2100.4573 |
| 45 | 72 | 10 | DL | NBR | 22.2110.4982 |
| 45 | 72 | 10 | DL | FKM | 22.2210.3412 |
| 45 | 72 | 12 | SL | NBR | 22.2100.0741 |
| 45 | 72 | 12 | DL | NBR | 22.2110.0852 |
| 45 | 75 | 6 | DL | NBR | 22.2110.7523 |
| 45 | 75 | 7 | DL | NBR | 22.2110.1010 |
| 45 | 75 | 7 | DL | FKM | 22.2210.7570 |
| 45 | 75 | 8 | SL | NBR | 22.2100.0965 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|----|-----|----|--------|----------|---------------------|
| 45 | 75 | 8 | DL | NBR | 22.2110.4575 |
| 45 | 75 | 8 | DL | FKM | 22.2210.4575 |
| 45 | 75 | 10 | DL | NBR | 22.2110.0096 |
| 45 | 75 | 10 | DL | FKM | 22.2210.7849 |
| 45 | 75 | 12 | DL | NBR | 22.2110.0085 |
| 45 | 78 | 8 | DL | NBR | 22.2110.9563 |
| 45 | 78 | 13 | SL | NBR | 22.2100.1320 |
| 45 | 80 | 7 | DL | NBR | 22.2110.0026 |
| 45 | 80 | 10 | SL | NBR | 22.2100.4580 |
| 45 | 80 | 10 | SL | FKM | 22.2200.4580 |
| 45 | 80 | 10 | DL | NBR | 22.2110.2055 |
| 45 | 80 | 10 | DL | FKM | 22.2210.0088 |
| 45 | 80 | 12 | DL | NBR | 22.2110.9502 |
| 45 | 80 | 13 | SL | NBR | 22.2100.5017 |
| 45 | 80 | 13 | DL | NBR | 22.2110.4891 |
| 45 | 85 | 8 | DL | NBR | 22.2110.0329 |
| 45 | 85 | 10 | SL | NBR | 22.2100.4585 |
| 45 | 85 | 10 | SL | FKM | 22.2200.4585 |
| 45 | 85 | 10 | DL | NBR | 22.2110.7255 |
| 45 | 85 | 10 | DL | FKM | 22.2210.0851 |
| 45 | 85 | 13 | SL | NBR | 22.2100.3916 |
| 45 | 90 | 10 | SL | NBR | 22.2100.8710 |
| 45 | 90 | 10 | DL | NBR | 22.2110.8911 |
| 45 | 90 | 10 | DL | FKM | 22.2210.4590 |
| 45 | 100 | 8 | SL | FKM | 22.2200.0112 |
| 45 | 100 | 8 | DL | NBR | 22.2110.0762 |
| 45 | 100 | 10 | DL | NBR | 22.2110.4500 |
| 45 | 100 | 10 | DL | FKM | 22.2210.0071 |
| 46 | 62 | 8 | DL | NBR | 22.2110.4601 |
| 46 | 64 | 8 | SL | NBR | 22.2100.4604 |
| 46 | 64 | 8 | DL | NBR | 22.2110.4828 |
| 46 | 65 | 7 | DL | NBR | 22.2110.4665 |
| 46 | 65 | 9 | DL | NBR | 22.2110.6215 |
| 46 | 68 | 10 | DL | NBR | 22.2110.4668 |
| 46 | 70 | 10 | DL | NBR | 22.2110.4670 |
| 47 | 68 | 13 | AEX DL | NBR | 22.2140.4768 |
| 47 | 72 | 12 | AEX SL | NBR | 22.2300.1245 |
| 47 | 58 | 6 | SL | NBR | 22.2100.0072 |
| 47 | 58 | 6 | SL | FKM | 22.2200.4758 |
| 47 | 58 | 7 | DL | NBR | 22.2110.7528 |
| 47 | 62 | 6 | SL | NBR | 22.2100.4700 |
| 47 | 62 | 8 | SL | NBR | 22.2100.2803 |
| 47 | 62 | 8 | SL | FKM | 22.2200.0628 |
| 47 | 64 | 8 | DL | NBR | 22.2110.4764 |
| 47 | 65 | 8 | SL | NBR | 22.2100.4765 |
| 47 | 65 | 10 | DL | NBR | 22.2110.4765 |

| ID | OD | H | Type | Material | Item no. |
|-------|-------|------|--------|----------|---------------------|
| 47 | 68 | 6 | SL | NBR | 22.2100.4768 |
| 47 | 70 | 10 | DL | NBR | 22.2110.2314 |
| 47 | 70 | 12 | DL | NBR | 22.2110.9173 |
| 47 | 72 | 9 | SL | NBR | 22.2100.0146 |
| 47 | 72 | 10 | SL | NBR | 22.2100.4772 |
| 47 | 80 | 12 | DL | NBR | 22.2110.0101 |
| 47,63 | 66,68 | 9,53 | AEX DL | NBR | 22.2140.4763 |
| 47,63 | 69,85 | 7,95 | AEX DL | NBR | 22.2140.0476 |
| 47,63 | 73,03 | 7,94 | AEX DL | NBR | 22.2140.4773 |
| 47,63 | 76,2 | 7,95 | AEX DL | NBR | 22.2140.0047 |
| 48 | 62 | 8 | AEX SL | NBR | 22.2300.4868 |
| 48 | 65 | 10 | AEX SL | NBR | 22.2300.4865 |
| 48 | 70 | 10 | T2 SL | NBR | 22.2350.4870 |
| 48 | 70 | 12 | T2 SL | NBR | 22.2350.0048 |
| 48 | 72 | 8 | AEX SL | NBR | 22.2300.3333 |
| 48 | 72 | 10 | AEX SL | NBR | 22.2300.4872 |
| 48 | 80 | 10 | T2 SL | NBR | 22.2350.4880 |
| 48 | 60 | 7 | DL | NBR | 22.2110.0102 |
| 48 | 60 | 9 | DL | NBR | 22.2110.4860 |
| 48 | 60 | 10 | DL | NBR | 22.2110.2780 |
| 48 | 62 | 7 | DL | NBR | 22.2110.2848 |
| 48 | 62 | 8 | SL | NBR | 22.2100.4862 |
| 48 | 62 | 8 | SL | FKM | 22.2200.4862 |
| 48 | 62 | 8 | DL | NBR | 22.2110.4705 |
| 48 | 62 | 10 | SL | NBR | 22.2100.0010 |
| 48 | 62 | 10 | SL | FKM | 22.2200.2233 |
| 48 | 62 | 10 | DL | NBR | 22.2110.2005 |
| 48 | 62 | 12 | DL | NBR | 22.2110.4862 |
| 48 | 65 | 7 | DL | NBR | 22.2110.4151 |
| 48 | 65 | 8 | SL | NBR | 22.2100.0841 |
| 48 | 65 | 8 | DL | NBR | 22.2110.0468 |
| 48 | 65 | 8 | DL | FKM | 22.2210.4865 |
| 48 | 65 | 9 | DL | NBR | 22.2110.6743 |
| 48 | 65 | 10 | SL | NBR | 22.2100.4865 |
| 48 | 65 | 10 | SL | FKM | 22.2200.4861 |
| 48 | 65 | 10 | DL | NBR | 22.2110.4865 |
| 48 | 65 | 10 | DL | FKM | 22.2210.0404 |
| 48 | 65 | 12 | SL | NBR | 22.2100.6847 |
| 48 | 66 | 12 | DL | NBR | 22.2110.4866 |
| 48 | 68 | 8 | DL | FKM | 22.2210.4868 |
| 48 | 68 | 10 | SL | NBR | 22.2100.4868 |
| 48 | 68 | 10 | DL | NBR | 22.2110.4868 |
| 48 | 68 | 12 | SL | NBR | 22.2100.4812 |
| 48 | 68 | 12 | SL | FKM | 22.2200.4868 |
| 48 | 68 | 12 | DL | NBR | 22.2110.1409 |
| 48 | 68 | 14 | DL | NBR | 22.2110.3615 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|----|----|----|--------|----------|---------------------|
| 48 | 68 | 14 | DL | FKM | 22.2210.4814 |
| 48 | 70 | 8 | DL | NBR | 22.2110.4870 |
| 48 | 70 | 9 | DL | NBR | 22.2110.6884 |
| 48 | 70 | 10 | SL | NBR | 22.2100.9746 |
| 48 | 70 | 10 | SL | FKM | 22.2200.4870 |
| 48 | 70 | 10 | DL | NBR | 22.2110.9741 |
| 48 | 70 | 12 | DL | NBR | 22.2110.0446 |
| 48 | 72 | 7 | SL | NBR | 22.2100.5432 |
| 48 | 72 | 7 | DL | NBR | 22.2110.3514 |
| 48 | 72 | 8 | SL | NBR | 22.2100.6534 |
| 48 | 72 | 8 | SL | FKM | 22.2200.2211 |
| 48 | 72 | 8 | DL | NBR | 22.2110.6854 |
| 48 | 72 | 8 | DL | FKM | 22.2210.4872 |
| 48 | 72 | 10 | SL | NBR | 22.2100.4872 |
| 48 | 72 | 10 | SL | FKM | 22.2200.4872 |
| 48 | 72 | 10 | DL | NBR | 22.2110.1614 |
| 48 | 72 | 12 | DL | NBR | 22.2110.8641 |
| 48 | 74 | 10 | SL | NBR | 22.2100.4874 |
| 48 | 74 | 10 | DL | NBR | 22.2110.3141 |
| 48 | 75 | 8 | SL | NBR | 22.2100.1178 |
| 48 | 75 | 12 | DL | NBR | 22.2110.3759 |
| 48 | 78 | 12 | SL | NBR | 22.2100.2718 |
| 48 | 80 | 8 | SL | NBR | 22.2100.5476 |
| 48 | 80 | 8 | DL | NBR | 22.2110.6759 |
| 48 | 80 | 10 | SL | NBR | 22.2100.1474 |
| 48 | 80 | 10 | DL | NBR | 22.2110.9865 |
| 48 | 80 | 12 | DL | NBR | 22.2110.9872 |
| 48 | 85 | 6 | SL | FKM | 22.2200.4885 |
| 48 | 85 | 13 | SL | NBR | 22.2100.4813 |
| 48 | 90 | 10 | SL | NBR | 22.2100.9864 |
| 48 | 90 | 10 | SL | FKM | 22.2200.4890 |
| 48 | 90 | 13 | DL | NBR | 22.2110.9845 |
| 49 | 65 | 10 | SL | NBR | 22.2100.4965 |
| 49 | 68 | 9 | DL | NBR | 22.2110.4968 |
| 49 | 72 | 10 | DL | NBR | 22.2110.4972 |
| 50 | 62 | 10 | AEX DL | NBR | 22.2140.5062 |
| 50 | 65 | 8 | AEX SL | NBR | 22.2300.6060 |
| 50 | 65 | 10 | T2 SL | NBR | 22.2350.5065 |
| 50 | 68 | 10 | AEX SL | NBR | 22.2300.5068 |
| 50 | 68 | 12 | T2 SL | NBR | 22.2350.5068 |
| 50 | 68 | 14 | AEX SL | NBR | 22.2300.1874 |
| 50 | 70 | 10 | AEX SL | NBR | 22.2300.5070 |
| 50 | 70 | 10 | T2 SL | NBR | 22.2350.5071 |
| 50 | 72 | 8 | AEX DL | NBR | 22.2140.0854 |
| 50 | 72 | 10 | AEX SL | NBR | 22.2300.5072 |
| 50 | 72 | 10 | T2 SL | NBR | 22.2350.0507 |

| ID | OD | H | Type | Material | Item no. |
|----|----|-----|----------|----------|---------------------|
| 50 | 72 | 12 | AEX DL | NBR | 22.2140.5072 |
| 50 | 72 | 12 | T2 SL | NBR | 22.2350.5012 |
| 50 | 75 | 9 | AEX SL | NBR | 22.2300.5075 |
| 50 | 76 | 13 | AEX DL | NBR | 22.2140.5076 |
| 50 | 80 | 10 | AEX SL | NBR | 22.2300.2100 |
| 50 | 80 | 12 | T2 SL | NBR | 22.2350.5080 |
| 50 | 86 | 13 | T2 SL | NBR | 22.2350.5086 |
| 50 | 58 | 4 | AN SL SR | NBR | 22.2122.5058 |
| 50 | 58 | 4,5 | SL | NBR | 22.2100.5058 |
| 50 | 60 | 7 | SL | NBR | 22.2100.5060 |
| 50 | 60 | 7 | SL | FKM | 22.2200.5060 |
| 50 | 60 | 8 | DL | NBR | 22.2110.5060 |
| 50 | 60 | 10 | SL | NBR | 22.2100.4554 |
| 50 | 62 | 5 | AN SL SR | NBR | 22.2122.5062 |
| 50 | 62 | 7 | SL | NBR | 22.2100.2621 |
| 50 | 62 | 7 | SL | FKM | 22.2200.3062 |
| 50 | 62 | 7 | DL | NBR | 22.2110.9873 |
| 50 | 62 | 7 | DL | FKM | 22.2210.5062 |
| 50 | 62 | 8 | SL | FKM | 22.2200.0062 |
| 50 | 62 | 8 | DL | NBR | 22.2110.4459 |
| 50 | 62 | 10 | SL | NBR | 22.2100.9684 |
| 50 | 64 | 8 | DL | NBR | 22.2110.1860 |
| 50 | 65 | 6 | DL | NBR | 22.2110.5066 |
| 50 | 65 | 7 | DL | NBR | 22.2110.0646 |
| 50 | 65 | 8 | SL | NBR | 22.2100.5065 |
| 50 | 65 | 8 | SL | FKM | 22.2200.5065 |
| 50 | 65 | 8 | DL | NBR | 22.2110.5065 |
| 50 | 65 | 8 | DL | FKM | 22.2210.5065 |
| 50 | 65 | 9 | DL | NBR | 22.2110.5659 |
| 50 | 65 | 10 | SL | NBR | 22.2100.5066 |
| 50 | 65 | 10 | SL | FKM | 22.2200.3287 |
| 50 | 65 | 10 | DL | NBR | 22.2110.5656 |
| 50 | 66 | 10 | SL | FKM | 22.2200.5066 |
| 50 | 67 | 7 | DL | NBR | 22.2110.0677 |
| 50 | 67 | 9 | SL | NBR | 22.2100.5067 |
| 50 | 67 | 9 | DL | NBR | 22.2110.5067 |
| 50 | 68 | 8 | SL | NBR | 22.2100.5068 |
| 50 | 68 | 8 | SL | FKM | 22.2200.5068 |
| 50 | 68 | 8 | DL | NBR | 22.2110.5068 |
| 50 | 68 | 8 | DL | FKM | 22.2210.5068 |
| 50 | 68 | 10 | SL | NBR | 22.2100.5069 |
| 50 | 68 | 10 | SL | FKM | 22.2200.5061 |
| 50 | 68 | 10 | DL | NBR | 22.2110.4170 |
| 50 | 68 | 10 | DL | FKM | 22.2210.5010 |
| 50 | 68 | 11 | SL | NBR | 22.2100.0508 |
| 50 | 68 | 12 | SL | NBR | 22.2100.5050 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|----|----|----|------|----------|---------------------|
| 50 | 68 | 12 | SL | FKM | 22.2200.3574 |
| 50 | 70 | 6 | DL | NBR | 22.2110.0570 |
| 50 | 70 | 8 | SL | NBR | 22.2100.5780 |
| 50 | 70 | 8 | DL | NBR | 22.2110.5780 |
| 50 | 70 | 8 | DL | FKM | 22.2210.5008 |
| 50 | 70 | 10 | SL | NBR | 22.2100.5070 |
| 50 | 70 | 10 | SL | FKM | 22.2200.5070 |
| 50 | 70 | 10 | DL | NBR | 22.2110.2722 |
| 50 | 70 | 10 | DL | FKM | 22.2210.5070 |
| 50 | 70 | 11 | DL | NBR | 22.2110.1187 |
| 50 | 70 | 12 | SL | NBR | 22.2100.0507 |
| 50 | 70 | 12 | DL | NBR | 22.2110.2501 |
| 50 | 70 | 14 | DL | NBR | 22.2110.5070 |
| 50 | 72 | 6 | SL | NBR | 22.2100.2050 |
| 50 | 72 | 7 | DL | NBR | 22.2110.5072 |
| 50 | 72 | 7 | DL | FKM | 22.2210.5072 |
| 50 | 72 | 8 | SL | NBR | 22.2100.5072 |
| 50 | 72 | 8 | SL | FKM | 22.2200.5078 |
| 50 | 72 | 8 | DL | NBR | 22.2110.5728 |
| 50 | 72 | 8 | DL | FKM | 22.2210.5077 |
| 50 | 72 | 10 | SL | NBR | 22.2100.5071 |
| 50 | 72 | 10 | DL | NBR | 22.2110.2800 |
| 50 | 72 | 10 | DL | FKM | 22.2210.5078 |
| 50 | 72 | 12 | SL | NBR | 22.2100.5073 |
| 50 | 72 | 12 | DL | NBR | 22.2110.0637 |
| 50 | 72 | 12 | DL | NBR | 22.2110.7212 |
| 50 | 73 | 8 | DL | NBR | 22.2110.5073 |
| 50 | 73 | 10 | DL | NBR | 22.2110.7310 |
| 50 | 75 | 6 | DL | NBR | 22.2110.0756 |
| 50 | 75 | 10 | SL | FKM | 22.2200.5075 |
| 50 | 75 | 10 | DL | NBR | 22.2110.7510 |
| 50 | 75 | 12 | SL | NBR | 22.2100.3714 |
| 50 | 75 | 12 | DL | NBR | 22.2110.5075 |
| 50 | 76 | 10 | SL | NBR | 22.2100.5076 |
| 50 | 76 | 12 | DL | NBR | 22.2110.7612 |
| 50 | 78 | 12 | SL | NBR | 22.2100.6504 |
| 50 | 78 | 12 | DL | NBR | 22.2110.7812 |
| 50 | 80 | 8 | SL | NBR | 22.2100.5080 |
| 50 | 80 | 8 | SL | FKM | 22.2200.5080 |
| 50 | 80 | 8 | DL | NBR | 22.2110.5088 |
| 50 | 80 | 8 | DL | FKM | 22.2210.5080 |
| 50 | 80 | 10 | SL | NBR | 22.2100.5081 |
| 50 | 80 | 10 | SL | FKM | 22.2200.5082 |
| 50 | 80 | 10 | DL | NBR | 22.2110.5810 |
| 50 | 80 | 10 | DL | FKM | 22.2210.5555 |
| 50 | 80 | 12 | SL | NBR | 22.2100.3260 |

| ID | OD | H | Type | Material | Item no. |
|------|-------|-------|--------|----------|---------------------|
| 50 | 80 | 12 | DL | NBR | 22.2110.2550 |
| 50 | 80 | 13 | SL | NBR | 22.2100.5083 |
| 50 | 80 | 13 | DL | NBR | 22.2110.5812 |
| 50 | 80 | 13 | DL | FKM | 22.2210.5013 |
| 50 | 82 | 12 | DL | NBR | 22.2110.5082 |
| 50 | 85 | 10 | SL | NBR | 22.2100.5013 |
| 50 | 85 | 10 | DL | NBR | 22.2110.0585 |
| 50 | 85 | 13 | SL | NBR | 22.2100.0200 |
| 50 | 90 | 8 | DL | NBR | 22.2110.0400 |
| 50 | 90 | 8 | DL | FKM | 22.2210.0238 |
| 50 | 90 | 10 | SL | NBR | 22.2100.5090 |
| 50 | 90 | 10 | SL | FKM | 22.2200.5090 |
| 50 | 90 | 10 | DL | NBR | 22.2110.3892 |
| 50 | 90 | 10 | DL | FKM | 22.2210.5090 |
| 50 | 90 | 12 | DL | NBR | 22.2110.0500 |
| 50 | 110 | 10 | DL | NBR | 22.2110.0501 |
| 50 | 110 | 12 | DL | NBR | 22.2110.0438 |
| 50,8 | 66,62 | 7,95 | AEX DL | NBR | 22.2140.5086 |
| 50,8 | 69,85 | 7,95 | AEX DL | NBR | 22.2140.0050 |
| 50,8 | 80,97 | 11,91 | T2 SL | NBR | 22.2350.8097 |
| 51 | 64 | 7 | DL | NBR | 22.2110.5164 |
| 51 | 72 | 10 | SL | NBR | 22.2100.0501 |
| 52 | 65 | 9 | AEX DL | NBR | 22.2140.5269 |
| 52 | 68 | 7 | AEX SL | NBR | 22.2300.5269 |
| 52 | 68 | 8 | AEX DL | NBR | 22.2140.6554 |
| 52 | 68 | 10 | AEX DL | NBR | 22.2140.5268 |
| 52 | 70 | 10 | AEX DL | NBR | 22.2140.5270 |
| 52 | 72 | 8 | AEX SL | NBR | 22.2300.5272 |
| 52 | 75 | 10 | T2 SL | NBR | 22.2350.5275 |
| 52 | 80 | 10 | AEX SL | NBR | 22.2300.5280 |
| 52 | 80 | 13 | AEX DL | NBR | 22.2140.5280 |
| 52 | 85 | 10 | T2 SL | NBR | 22.2350.5285 |
| 52 | 60 | 8 | SL | NBR | 22.2100.0520 |
| 52 | 62 | 7 | SL | NBR | 22.2100.5262 |
| 52 | 62 | 8 | SL | FKM | 22.2200.5062 |
| 52 | 65 | 8 | SL | NBR | 22.2100.0526 |
| 52 | 65 | 9 | DL | NBR | 22.2110.5525 |
| 52 | 68 | 7 | SL | NBR | 22.2100.6003 |
| 52 | 68 | 7 | DL | NBR | 22.2110.5268 |
| 52 | 68 | 8 | SL | NBR | 22.2100.5269 |
| 52 | 68 | 8 | SL | FKM | 22.2200.5268 |
| 52 | 68 | 8 | DL | NBR | 22.2110.5529 |
| 52 | 68 | 8 | DL | FKM | 22.2210.5268 |
| 52 | 68 | 10 | SL | NBR | 22.2100.5268 |
| 52 | 68 | 10 | DL | NBR | 22.2110.0526 |
| 52 | 68 | 13 | DL | NBR | 22.2110.5287 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|-------|-------|-------|--------|----------|---------------------|
| 52 | 69 | 10 | SL | NBR | 22.2100.8008 |
| 52 | 69 | 10 | DL | NBR | 22.2110.5228 |
| 52 | 70 | 7 | DL | NBR | 22.2110.5270 |
| 52 | 70 | 8 | DL | NBR | 22.2110.5244 |
| 52 | 70 | 10 | SL | NBR | 22.2100.5270 |
| 52 | 72 | 8 | SL | NBR | 22.2100.5272 |
| 52 | 72 | 8 | SL | FKM | 22.2200.5272 |
| 52 | 72 | 8 | DL | NBR | 22.2110.5566 |
| 52 | 72 | 8 | DL | FKM | 22.2210.5272 |
| 52 | 72 | 10 | SL | NBR | 22.2100.3333 |
| 52 | 72 | 10 | SL | FKM | 22.2200.5273 |
| 52 | 72 | 10 | DL | NBR | 22.2110.8844 |
| 52 | 72 | 12 | SL | NBR | 22.2100.2117 |
| 52 | 72 | 12 | DL | NBR | 22.2110.5588 |
| 52 | 75 | 10 | SL | NBR | 22.2100.5275 |
| 52 | 75 | 10 | DL | NBR | 22.2110.4410 |
| 52 | 75 | 10 | DL | FKM | 22.2210.5275 |
| 52 | 75 | 12 | SL | NBR | 22.2100.5212 |
| 52 | 75 | 12 | DL | NBR | 22.2110.4412 |
| 52 | 76 | 12 | SL | NBR | 22.2100.5276 |
| 52 | 78 | 12 | DL | NBR | 22.2110.5278 |
| 52 | 80 | 8 | DL | NBR | 22.2110.5280 |
| 52 | 80 | 10 | SL | NBR | 22.2100.4489 |
| 52 | 80 | 13 | DL | NBR | 22.2110.5213 |
| 52 | 85 | 8 | SL | NBR | 22.2100.5285 |
| 52 | 85 | 10 | SL | NBR | 22.2100.0611 |
| 52 | 85 | 10 | DL | NBR | 22.2110.4499 |
| 52 | 100 | 10 | DL | NBR | 22.2110.0174 |
| 52 | 100 | 10 | DL | FKM | 22.2210.0036 |
| 53 | 65 | 10 | DL | NBR | 22.2110.0533 |
| 53 | 68 | 10 | SL | NBR | 22.2100.5368 |
| 53 | 68 | 10 | SL | FKM | 22.2200.5368 |
| 53 | 68 | 10 | DL | NBR | 22.2110.7714 |
| 53 | 72 | 10 | DL | NBR | 22.2110.7436 |
| 53 | 80 | 10 | SL | NBR | 22.2100.5380 |
| 53 | 80 | 10 | SL | FKM | 22.2200.5380 |
| 53,97 | 73,02 | 9,52 | AEX DL | NBR | 22.2140.5397 |
| 53,97 | 73,02 | 11,13 | AEX DL | NBR | 22.2140.0539 |
| 54 | 72 | 10 | T2 SL | NBR | 22.2350.5472 |
| 54 | 80 | 10 | T2 SL | NBR | 22.2350.5480 |
| 54 | 80 | 13 | T2 SL | NBR | 22.2350.5413 |
| 54 | 68 | 8 | DL | NBR | 22.2110.5468 |
| 54 | 68 | 10 | DL | NBR | 22.2110.9855 |
| 54 | 68 | 10,5 | SL | FKM | 22.2200.5468 |
| 54 | 70 | 9 | DL | NBR | 22.2110.5470 |
| 54 | 70 | 10 | DL | NBR | 22.2110.5410 |

| ID | OD | H | Type | Material | Item no. |
|----|----|------|----------|----------|---------------------|
| 54 | 70 | 12 | SL | FKM | 22.2200.5470 |
| 54 | 72 | 8 | SL | NBR | 22.2100.7485 |
| 54 | 72 | 8 | DL | NBR | 22.2110.0548 |
| 54 | 72 | 9 | DL | NBR | 22.2110.8700 |
| 54 | 72 | 10 | SL | NBR | 22.2100.3833 |
| 54 | 72 | 10 | SL | FKM | 22.2200.5472 |
| 54 | 72 | 10 | DL | NBR | 22.2110.2288 |
| 54 | 74 | 10 | DL | NBR | 22.2110.5474 |
| 54 | 75 | 12 | SL | NBR | 22.2100.5475 |
| 54 | 76 | 8 | DL | NBR | 22.2110.5476 |
| 54 | 76 | 12,5 | SL | FKM | 22.2200.5476 |
| 54 | 78 | 12 | SL | NBR | 22.2100.4544 |
| 54 | 80 | 13 | DL | NBR | 22.2110.5480 |
| 54 | 81 | 10 | DL | FKM | 22.2210.5481 |
| 54 | 82 | 10 | DL | NBR | 22.2110.1933 |
| 54 | 85 | 8 | SL | NBR | 22.2100.0884 |
| 54 | 85 | 8 | DL | NBR | 22.2110.5485 |
| 54 | 85 | 10 | DL | NBR | 22.2110.6535 |
| 54 | 90 | 10 | SL | FKM | 22.2200.5490 |
| 54 | 90 | 13 | SL | FKM | 22.2200.5413 |
| 55 | 70 | 8 | AEX SL | NBR | 22.2300.5570 |
| 55 | 70 | 8 | AEX DL | NBR | 22.2140.5570 |
| 55 | 72 | 8 | AEX DL | FKM | 22.2240.5572 |
| 55 | 75 | 12 | T2 SL | NBR | 22.2350.5512 |
| 55 | 80 | 10 | AEX DL | NBR | 22.2140.5580 |
| 55 | 80 | 10 | T2 SL | NBR | 22.2350.0444 |
| 55 | 85 | 8 | AEX SL | NBR | 22.2300.5585 |
| 55 | 85 | 10 | T2 SL | NBR | 22.2350.5585 |
| 55 | 85 | 13 | T2 SL | NBR | 22.2350.5513 |
| 55 | 63 | 5 | AN SL SR | NBR | 22.2122.5563 |
| 55 | 65 | 8 | SL | NBR | 22.2100.5565 |
| 55 | 65 | 8 | DL | NBR | 22.2110.5565 |
| 55 | 68 | 8 | SL | NBR | 22.2100.1000 |
| 55 | 68 | 8 | SL | FKM | 22.2200.5868 |
| 55 | 68 | 8 | DL | NBR | 22.2110.1000 |
| 55 | 68 | 9 | SL | NBR | 22.2100.5529 |
| 55 | 70 | 6 | DL | NBR | 22.2110.5576 |
| 55 | 70 | 7 | SL | NBR | 22.2100.0360 |
| 55 | 70 | 8 | SL | NBR | 22.2100.5570 |
| 55 | 70 | 8 | SL | FKM | 22.2200.5579 |
| 55 | 70 | 8 | DL | NBR | 22.2110.5570 |
| 55 | 70 | 8 | DL | FKM | 22.2210.5570 |
| 55 | 70 | 9 | SL | NBR | 22.2100.3425 |
| 55 | 70 | 9 | DL | NBR | 22.2110.2000 |
| 55 | 70 | 10 | SL | NBR | 22.2100.5503 |
| 55 | 70 | 10 | SL | FKM | 22.2200.5570 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|----|----|----|------|----------|---------------------|
| 55 | 70 | 10 | DL | NBR | 22.2110.2843 |
| 55 | 70 | 10 | DL | FKM | 22.2210.0557 |
| 55 | 72 | 7 | DL | NBR | 22.2110.3671 |
| 55 | 72 | 8 | SL | NBR | 22.2100.5572 |
| 55 | 72 | 8 | SL | FKM | 22.2200.5578 |
| 55 | 72 | 8 | DL | NBR | 22.2110.0055 |
| 55 | 72 | 8 | DL | FKM | 22.2210.5572 |
| 55 | 72 | 9 | DL | NBR | 22.2110.0551 |
| 55 | 72 | 10 | SL | NBR | 22.2100.5573 |
| 55 | 72 | 10 | SL | FKM | 22.2200.5572 |
| 55 | 72 | 10 | DL | NBR | 22.2110.5572 |
| 55 | 72 | 10 | DL | FKM | 22.2210.0235 |
| 55 | 72 | 12 | DL | NBR | 22.2110.0552 |
| 55 | 75 | 8 | SL | NBR | 22.2100.0554 |
| 55 | 75 | 8 | SL | FKM | 22.2200.5755 |
| 55 | 75 | 8 | DL | NBR | 22.2110.5987 |
| 55 | 75 | 8 | DL | FKM | 22.2210.5575 |
| 55 | 75 | 10 | SL | NBR | 22.2100.5575 |
| 55 | 75 | 10 | SL | FKM | 22.2200.5672 |
| 55 | 75 | 10 | DL | NBR | 22.2110.0556 |
| 55 | 75 | 10 | DL | FKM | 22.2210.3002 |
| 55 | 75 | 12 | SL | NBR | 22.2100.5576 |
| 55 | 75 | 12 | DL | NBR | 22.2110.5575 |
| 55 | 75 | 12 | DL | FKM | 22.2210.0007 |
| 55 | 76 | 8 | DL | NBR | 22.2110.0578 |
| 55 | 76 | 12 | DL | NBR | 22.2110.0557 |
| 55 | 78 | 8 | DL | NBR | 22.2110.0558 |
| 55 | 78 | 10 | SL | NBR | 22.2100.0557 |
| 55 | 78 | 10 | DL | NBR | 22.2110.4401 |
| 55 | 78 | 12 | DL | NBR | 22.2110.9901 |
| 55 | 80 | 8 | SL | NBR | 22.2100.5582 |
| 55 | 80 | 8 | SL | FKM | 22.2200.5580 |
| 55 | 80 | 8 | DL | NBR | 22.2110.9902 |
| 55 | 80 | 10 | SL | NBR | 22.2100.9998 |
| 55 | 80 | 10 | SL | FKM | 22.2200.5581 |
| 55 | 80 | 10 | DL | NBR | 22.2110.5580 |
| 55 | 80 | 10 | DL | FKM | 22.2210.5580 |
| 55 | 80 | 12 | SL | NBR | 22.2100.0998 |
| 55 | 80 | 12 | DL | NBR | 22.2110.0997 |
| 55 | 80 | 13 | SL | NBR | 22.2100.5581 |
| 55 | 80 | 13 | DL | NBR | 22.2110.5513 |
| 55 | 82 | 10 | DL | NBR | 22.2110.9987 |
| 55 | 82 | 12 | DL | NBR | 22.2110.5582 |
| 55 | 84 | 14 | DL | NBR | 22.2110.5584 |
| 55 | 85 | 8 | SL | NBR | 22.2100.5585 |
| 55 | 85 | 8 | DL | NBR | 22.2110.5578 |

| ID | OD | H | Type | Material | Item no. |
|----|-----|----|--------|----------|---------------------|
| 55 | 85 | 10 | SL | NBR | 22.2100.2366 |
| 55 | 85 | 10 | SL | FKM | 22.2200.1245 |
| 55 | 85 | 10 | DL | NBR | 22.2110.1900 |
| 55 | 85 | 10 | DL | FKM | 22.2210.5585 |
| 55 | 85 | 12 | SL | NBR | 22.2100.8555 |
| 55 | 85 | 12 | DL | NBR | 22.2110.5585 |
| 55 | 85 | 13 | DL | NBR | 22.2110.8555 |
| 55 | 88 | 10 | DL | NBR | 22.2110.8810 |
| 55 | 88 | 12 | DL | NBR | 22.2110.5512 |
| 55 | 90 | 8 | DL | NBR | 22.2110.0908 |
| 55 | 90 | 10 | SL | NBR | 22.2100.5590 |
| 55 | 90 | 10 | DL | NBR | 22.2110.5590 |
| 55 | 90 | 10 | DL | FKM | 22.2210.5590 |
| 55 | 90 | 12 | DL | NBR | 22.2110.4758 |
| 55 | 90 | 13 | SL | NBR | 22.2100.6532 |
| 55 | 90 | 13 | DL | NBR | 22.2110.9055 |
| 55 | 100 | 10 | SL | NBR | 22.2100.4691 |
| 55 | 100 | 10 | DL | NBR | 22.2110.5500 |
| 55 | 100 | 10 | DL | FKM | 22.2210.0032 |
| 55 | 100 | 12 | SL | NBR | 22.2100.0971 |
| 55 | 100 | 12 | DL | NBR | 22.2110.5502 |
| 56 | 80 | 10 | T2 SL | NBR | 22.2350.5680 |
| 56 | 65 | 12 | DL | NBR | 22.2110.5665 |
| 56 | 69 | 10 | SL | NBR | 22.2100.5696 |
| 56 | 70 | 8 | SL | NBR | 22.2100.5670 |
| 56 | 70 | 8 | SL | FKM | 22.2200.5670 |
| 56 | 70 | 8 | DL | NBR | 22.2110.5670 |
| 56 | 70 | 8 | DL | FKM | 22.2210.5670 |
| 56 | 70 | 9 | DL | NBR | 22.2110.1674 |
| 56 | 72 | 7 | DL | NBR | 22.2110.5672 |
| 56 | 72 | 8 | SL | NBR | 22.2100.5672 |
| 56 | 72 | 8 | DL | FKM | 22.2210.5672 |
| 56 | 74 | 10 | DL | NBR | 22.2110.4717 |
| 56 | 76 | 11 | SL | FKM | 22.2200.5611 |
| 56 | 80 | 8 | SL | NBR | 22.2100.0984 |
| 56 | 80 | 8 | SL | FKM | 22.2200.6541 |
| 56 | 80 | 8 | DL | NBR | 22.2110.5680 |
| 56 | 80 | 12 | SL | FKM | 22.2200.5612 |
| 56 | 80 | 12 | DL | NBR | 22.2110.5682 |
| 56 | 85 | 8 | SL | NBR | 22.2100.8414 |
| 56 | 85 | 13 | DL | NBR | 22.2110.5685 |
| 56 | 86 | 13 | DL | NBR | 22.2110.5686 |
| 56 | 100 | 10 | SL | NBR | 22.2100.5610 |
| 56 | 100 | 10 | DL | NBR | 22.2110.5601 |
| 56 | 100 | 12 | DL | NBR | 22.2110.5610 |
| 57 | 68 | 9 | AEX DL | NBR | 22.2140.5768 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|-------|------|------|--------|----------|---------------------|
| 57 | 85 | 12 | AEX SL | NBR | 22.2300.5785 |
| 57 | 72 | 10 | DL | NBR | 22.2110.6300 |
| 57 | 73 | 7 | DL | NBR | 22.2110.5773 |
| 57 | 75 | 12 | SL | NBR | 22.2100.4457 |
| 57 | 85 | 12 | DL | NBR | 22.2110.5785 |
| 57 | 86 | 13 | DL | NBR | 22.2110.5786 |
| 57 | 90 | 13 | SL | NBR | 22.2100.4741 |
| 57 | 90 | 13 | DL | NBR | 22.2110.4741 |
| 57,15 | 76,2 | 9,52 | AEX DL | FKM | 22.2240.0102 |
| 58 | 75 | 8 | AEX SL | NBR | 22.2300.5875 |
| 58 | 68 | 9 | DL | NBR | 22.2110.5868 |
| 58 | 72 | 8 | SL | NBR | 22.2100.5872 |
| 58 | 72 | 8 | DL | NBR | 22.2110.5872 |
| 58 | 72 | 8 | DL | FKM | 22.2210.5872 |
| 58 | 72 | 9 | SL | NBR | 22.2100.5691 |
| 58 | 72 | 9 | DL | NBR | 22.2110.6772 |
| 58 | 72 | 10 | SL | FKM | 22.2200.5810 |
| 58 | 72 | 12 | DL | NBR | 22.2110.5871 |
| 58 | 75 | 5 | SL | NBR | 22.2100.8120 |
| 58 | 75 | 9 | DL | NBR | 22.2110.4588 |
| 58 | 75 | 10 | SL | NBR | 22.2100.2185 |
| 58 | 75 | 12 | SL | NBR | 22.2100.3982 |
| 58 | 75 | 13 | DL | NBR | 22.2110.5875 |
| 58 | 78 | 13 | SL | NBR | 22.2100.4714 |
| 58 | 78 | 13 | SL | FKM | 22.2200.5878 |
| 58 | 80 | 8 | SL | NBR | 22.2100.5808 |
| 58 | 80 | 8 | SL | FKM | 22.2200.5880 |
| 58 | 80 | 8 | DL | NBR | 22.2110.5880 |
| 58 | 80 | 8 | DL | FKM | 22.2210.5880 |
| 58 | 80 | 10 | SL | NBR | 22.2100.5880 |
| 58 | 80 | 10 | SL | FKM | 22.2200.5881 |
| 58 | 80 | 10 | DL | NBR | 22.2110.0794 |
| 58 | 80 | 12 | SL | NBR | 22.2100.2365 |
| 58 | 80 | 12 | DL | NBR | 22.2110.7544 |
| 58 | 80 | 13 | SL | NBR | 22.2100.6001 |
| 58 | 80 | 13 | DL | NBR | 22.2110.3641 |
| 58 | 82 | 12 | DL | NBR | 22.2110.5882 |
| 58 | 85 | 10 | SL | NBR | 22.2100.5885 |
| 58 | 85 | 10 | DL | NBR | 22.2110.5885 |
| 58 | 85 | 13 | SL | NBR | 22.2100.5813 |
| 58 | 86 | 14 | SL | FKM | 22.2200.5886 |
| 58 | 90 | 8 | DL | NBR | 22.2110.0588 |
| 58 | 90 | 10 | SL | NBR | 22.2100.9058 |
| 58 | 90 | 10 | DL | NBR | 22.2110.0581 |
| 58 | 90 | 11 | DL | NBR | 22.2110.5890 |
| 60 | 72 | 7 | AEX SL | NBR | 22.2300.0045 |

| ID | OD | H | Type | Material | Item no. |
|----|----|----|--------|----------|---------------------|
| 60 | 72 | 8 | AEX SL | NBR | 22.2300.6072 |
| 60 | 74 | 8 | AEX SL | NBR | 22.2300.6074 |
| 60 | 75 | 8 | AEX SL | NBR | 22.2300.6075 |
| 60 | 75 | 8 | AEX DL | NBR | 22.2140.6075 |
| 60 | 80 | 8 | AEX SL | NBR | 22.2300.6088 |
| 60 | 80 | 10 | AEX SL | NBR | 22.2300.6011 |
| 60 | 80 | 10 | AEX DL | NBR | 22.2140.6080 |
| 60 | 80 | 10 | T2 SL | NBR | 22.2350.6080 |
| 60 | 80 | 12 | AEX DL | NBR | 22.2140.6012 |
| 60 | 80 | 13 | AEX DL | NBR | 22.2140.0609 |
| 60 | 82 | 12 | AEX DL | NBR | 22.2140.8212 |
| 60 | 85 | 8 | AEX SL | NBR | 22.2300.6085 |
| 60 | 85 | 10 | T2 SL | NBR | 22.2350.8560 |
| 60 | 90 | 10 | T2 SL | NBR | 22.2350.6090 |
| 60 | 90 | 12 | AEX SL | NBR | 22.2300.0600 |
| 60 | 95 | 10 | T2 SL | NBR | 22.2350.6095 |
| 60 | 70 | 7 | SL | NBR | 22.2100.6070 |
| 60 | 72 | 8 | SL | NBR | 22.2100.3514 |
| 60 | 72 | 8 | DL | NBR | 22.2110.6072 |
| 60 | 72 | 12 | DL | NBR | 22.2110.9988 |
| 60 | 74 | 10 | SL | NBR | 22.2100.9989 |
| 60 | 74 | 10 | DL | NBR | 22.2110.6074 |
| 60 | 75 | 7 | SL | NBR | 22.2100.6077 |
| 60 | 75 | 7 | DL | NBR | 22.2110.0229 |
| 60 | 75 | 8 | SL | NBR | 22.2100.6075 |
| 60 | 75 | 8 | SL | FKM | 22.2200.6075 |
| 60 | 75 | 8 | DL | NBR | 22.2110.8899 |
| 60 | 75 | 8 | DL | FKM | 22.2210.6075 |
| 60 | 75 | 9 | SL | NBR | 22.2100.6076 |
| 60 | 75 | 10 | SL | NBR | 22.2100.7560 |
| 60 | 75 | 10 | SL | FKM | 22.2200.0035 |
| 60 | 75 | 10 | DL | NBR | 22.2110.6677 |
| 60 | 75 | 10 | DL | FKM | 22.2210.0060 |
| 60 | 75 | 12 | SL | NBR | 22.2100.6698 |
| 60 | 75 | 12 | SL | FKM | 22.2200.5034 |
| 60 | 75 | 12 | DL | NBR | 22.2110.6075 |
| 60 | 76 | 10 | SL | NBR | 22.2100.6677 |
| 60 | 78 | 7 | SL | NBR | 22.2100.6088 |
| 60 | 78 | 10 | SL | NBR | 22.2100.1960 |
| 60 | 78 | 10 | SL | FKM | 22.2200.6078 |
| 60 | 78 | 10 | DL | NBR | 22.2110.6602 |
| 60 | 78 | 12 | DL | NBR | 22.2110.6012 |
| 60 | 78 | 13 | SL | NBR | 22.2100.6078 |
| 60 | 80 | 7 | SL | FKM | 22.2200.0607 |
| 60 | 80 | 7 | DL | NBR | 22.2110.6603 |
| 60 | 80 | 7 | DL | FKM | 22.2210.6080 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|----|----|----|------|----------|---------------------|
| 60 | 80 | 8 | SL | NBR | 22.2100.6080 |
| 60 | 80 | 8 | SL | FKM | 22.2200.6088 |
| 60 | 80 | 8 | DL | NBR | 22.2110.6604 |
| 60 | 80 | 8 | DL | FKM | 22.2210.0608 |
| 60 | 80 | 9 | SL | NBR | 22.2100.6099 |
| 60 | 80 | 9 | DL | NBR | 22.2110.6605 |
| 60 | 80 | 9 | DL | FKM | 22.2210.0609 |
| 60 | 80 | 10 | SL | NBR | 22.2100.6081 |
| 60 | 80 | 10 | SL | FKM | 22.2200.6080 |
| 60 | 80 | 10 | DL | NBR | 22.2110.6606 |
| 60 | 80 | 10 | DL | FKM | 22.2210.6010 |
| 60 | 80 | 12 | SL | NBR | 22.2100.6082 |
| 60 | 80 | 12 | SL | FKM | 22.2200.6012 |
| 60 | 80 | 12 | DL | NBR | 22.2110.6607 |
| 60 | 80 | 12 | DL | FKM | 22.2210.0660 |
| 60 | 80 | 13 | SL | NBR | 22.2100.6083 |
| 60 | 80 | 13 | SL | FKM | 22.2200.6013 |
| 60 | 80 | 13 | DL | NBR | 22.2110.6608 |
| 60 | 82 | 7 | DL | NBR | 22.2110.6609 |
| 60 | 82 | 9 | DL | NBR | 22.2110.6610 |
| 60 | 82 | 10 | DL | NBR | 22.2110.6082 |
| 60 | 82 | 12 | SL | NBR | 22.2100.6605 |
| 60 | 82 | 12 | DL | NBR | 22.2110.6611 |
| 60 | 85 | 8 | SL | NBR | 22.2100.6085 |
| 60 | 85 | 8 | SL | FKM | 22.2200.0608 |
| 60 | 85 | 8 | DL | NBR | 22.2110.6612 |
| 60 | 85 | 8 | DL | FKM | 22.2210.0685 |
| 60 | 85 | 10 | SL | NBR | 22.2100.6086 |
| 60 | 85 | 10 | SL | FKM | 22.2200.6085 |
| 60 | 85 | 10 | DL | NBR | 22.2110.6614 |
| 60 | 85 | 10 | DL | FKM | 22.2210.6085 |
| 60 | 85 | 12 | SL | NBR | 22.2100.6608 |
| 60 | 85 | 12 | DL | NBR | 22.2110.6615 |
| 60 | 85 | 13 | SL | NBR | 22.2100.8560 |
| 60 | 85 | 13 | SL | FKM | 22.2200.9518 |
| 60 | 85 | 13 | DL | NBR | 22.2110.6616 |
| 60 | 88 | 12 | DL | NBR | 22.2110.6617 |
| 60 | 89 | 11 | SL | NBR | 22.2100.6089 |
| 60 | 90 | 8 | SL | NBR | 22.2100.6609 |
| 60 | 90 | 8 | SL | FKM | 22.2200.0609 |
| 60 | 90 | 8 | DL | NBR | 22.2110.6618 |
| 60 | 90 | 8 | DL | FKM | 22.2210.6090 |
| 60 | 90 | 10 | SL | NBR | 22.2100.6090 |
| 60 | 90 | 10 | SL | FKM | 22.2200.6091 |
| 60 | 90 | 10 | DL | NBR | 22.2110.9661 |
| 60 | 90 | 10 | DL | FKM | 22.2210.6565 |

| ID | OD | H | Type | Material | Item no. |
|-------|-------|------|--------|----------|---------------------|
| 60 | 90 | 13 | SL | NBR | 22.2100.6091 |
| 60 | 90 | 13 | SL | FKM | 22.2200.6090 |
| 60 | 90 | 13 | DL | NBR | 22.2110.6621 |
| 60 | 90 | 16 | DL | NBR | 22.2110.6090 |
| 60 | 95 | 10 | SL | NBR | 22.2100.6095 |
| 60 | 95 | 10 | SL | FKM | 22.2200.6095 |
| 60 | 95 | 10 | DL | NBR | 22.2110.6625 |
| 60 | 95 | 12 | DL | NBR | 22.2110.6626 |
| 60 | 95 | 13 | DL | NBR | 22.2110.6627 |
| 60 | 100 | 10 | SL | NBR | 22.2100.6610 |
| 60 | 100 | 10 | SL | FKM | 22.2200.2345 |
| 60 | 100 | 10 | DL | NBR | 22.2110.0601 |
| 60 | 100 | 10 | DL | FKM | 22.2210.0123 |
| 60 | 100 | 13 | SL | NBR | 22.2100.6660 |
| 60 | 100 | 13 | SL | FKM | 22.2200.8784 |
| 60 | 110 | 10 | DL | NBR | 22.2110.6629 |
| 60 | 110 | 12 | SL | NBR | 22.2100.6010 |
| 60 | 110 | 12 | DL | NBR | 22.2110.0307 |
| 60 | 110 | 12 | DL | FKM | 22.2210.6011 |
| 60 | 110 | 13 | SL | NBR | 22.2100.6611 |
| 60 | 110 | 13 | SL | FKM | 22.2200.8500 |
| 60,32 | 79,37 | 9,52 | T2 DL | NBR | 22.2354.6032 |
| 61 | 75 | 8 | AEX SL | NBR | 22.2300.6175 |
| 61 | 75 | 8 | SL | FKM | 22.2200.6175 |
| 62 | 75 | 10 | AEX SL | NBR | 22.2300.6275 |
| 62 | 80 | 12 | T2 SL | NBR | 22.2350.0628 |
| 62 | 85 | 13 | T2 SL | NBR | 22.2350.0332 |
| 62 | 90 | 10 | T2 SL | NBR | 22.2350.6290 |
| 62 | 72 | 9 | DL | NBR | 22.2110.6272 |
| 62 | 80 | 10 | SL | NBR | 22.2100.6280 |
| 62 | 80 | 10 | DL | NBR | 22.2110.0628 |
| 62 | 80 | 12 | SL | FKM | 22.2200.6280 |
| 62 | 80 | 12 | DL | NBR | 22.2110.6281 |
| 62 | 82 | 10 | DL | NBR | 22.2110.6282 |
| 62 | 83 | 9 | DL | NBR | 22.2110.6283 |
| 62 | 85 | 8 | DL | NBR | 22.2110.6285 |
| 62 | 85 | 10 | SL | NBR | 22.2100.3156 |
| 62 | 85 | 10 | SL | FKM | 22.2200.6285 |
| 62 | 85 | 10 | DL | NBR | 22.2110.4154 |
| 62 | 85 | 10 | DL | FKM | 22.2210.6285 |
| 62 | 85 | 12 | SL | NBR | 22.2100.6285 |
| 62 | 85 | 12 | DL | NBR | 22.2110.1986 |
| 62 | 85 | 13 | SL | FKM | 22.2200.6213 |
| 62 | 90 | 10 | SL | NBR | 22.2100.0629 |
| 62 | 90 | 10 | SL | FKM | 22.2200.6290 |
| 62 | 90 | 10 | DL | NBR | 22.2110.6290 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|------|------|------|--------|----------|---------------------|
| 62 | 90 | 10 | DL | FKM | 22.2210.6290 |
| 62 | 90 | 11 | SL | FKM | 22.2200.6291 |
| 62 | 90 | 12 | DL | NBR | 22.2110.6295 |
| 62 | 90 | 13 | SL | NBR | 22.2100.6213 |
| 62 | 90 | 13 | DL | NBR | 22.2110.0062 |
| 62 | 100 | 10 | SL | FKM | 22.2200.6200 |
| 62 | 100 | 12 | DL | NBR | 22.2110.2809 |
| 62 | 101 | 15 | DL | NBR | 22.2110.6211 |
| 62 | 110 | 13 | SL | NBR | 22.2100.0062 |
| 62 | 120 | 12 | SL | FKM | 22.2200.0073 |
| 63 | 75 | 9 | DL | NBR | 22.2110.0004 |
| 63 | 80 | 9 | DL | NBR | 22.2110.0077 |
| 63 | 80 | 12 | DL | NBR | 22.2110.0293 |
| 63 | 85 | 10 | SL | NBR | 22.2100.6598 |
| 63 | 85 | 10 | SL | FKM | 22.2200.6385 |
| 63 | 85 | 10 | DL | NBR | 22.2110.5814 |
| 63 | 85 | 10 | DL | FKM | 22.2210.6385 |
| 63 | 88 | 10 | DL | NBR | 22.2110.7797 |
| 63 | 90 | 10 | DL | NBR | 22.2110.9063 |
| 63 | 90 | 10 | DL | FKM | 22.2210.6390 |
| 63 | 110 | 12 | SL | NBR | 22.2100.6311 |
| 63,5 | 88,9 | 9,52 | T2 DL | NBR | 22.2354.0635 |
| 63,5 | 90,1 | 9,52 | T2 SL | NBR | 22.2350.6359 |
| 64 | 90 | 10 | T2 SL | NBR | 22.2350.6490 |
| 64 | 90 | 13 | AEX DL | NBR | 22.2140.6490 |
| 64 | 80 | 8 | SL | NBR | 22.2100.2180 |
| 64 | 80 | 8 | SL | FKM | 22.2200.6480 |
| 64 | 80 | 8 | DL | NBR | 22.2110.0648 |
| 64 | 80 | 13 | DL | NBR | 22.2110.6480 |
| 64 | 85 | 10 | SL | NBR | 22.2100.6485 |
| 64 | 85 | 12 | DL | NBR | 22.2110.6485 |
| 64 | 86 | 10 | DL | NBR | 22.2110.6486 |
| 64 | 90 | 13 | DL | NBR | 22.2110.6490 |
| 64 | 90 | 13 | DL | FKM | 22.2210.6490 |
| 65 | 80 | 8 | AEX SL | NBR | 22.2300.6588 |
| 65 | 85 | 10 | AEX DL | NBR | 22.2140.6585 |
| 65 | 85 | 12 | AEX DL | NBR | 22.2140.8541 |
| 65 | 85 | 13 | T2 SL | NBR | 22.2350.6585 |
| 65 | 90 | 10 | AEX DL | NBR | 22.2140.6590 |
| 65 | 90 | 12 | T2 SL | NBR | 22.2350.0659 |
| 65 | 90 | 13 | AEX SL | NBR | 22.2300.6513 |
| 65 | 90 | 13 | AEX DL | NBR | 22.2140.7874 |
| 65 | 100 | 10 | T2 SL | NBR | 22.2350.6510 |
| 65 | 100 | 12 | T2 SL | NBR | 22.2350.6511 |
| 65 | 100 | 13 | AEX DL | NBR | 22.2140.6510 |
| 65 | 110 | 10 | AEX DL | NBR | 22.2140.0093 |

| ID | OD | H | Type | Material | Item no. |
|----|----|----|------|----------|---------------------|
| 65 | 75 | 8 | DL | NBR | 22.2110.0123 |
| 65 | 80 | 8 | SL | NBR | 22.2100.6580 |
| 65 | 80 | 8 | SL | FKM | 22.2200.6580 |
| 65 | 80 | 8 | DL | NBR | 22.2110.8065 |
| 65 | 80 | 8 | DL | FKM | 22.2210.6508 |
| 65 | 80 | 10 | DL | NBR | 22.2110.6580 |
| 65 | 80 | 10 | DL | FKM | 22.2210.6580 |
| 65 | 80 | 12 | SL | NBR | 22.2100.6794 |
| 65 | 80 | 12 | DL | NBR | 22.2110.0013 |
| 65 | 82 | 9 | DL | NBR | 22.2110.6582 |
| 65 | 82 | 10 | SL | NBR | 22.2100.6582 |
| 65 | 82 | 12 | SL | NBR | 22.2100.3099 |
| 65 | 83 | 10 | DL | NBR | 22.2110.6583 |
| 65 | 85 | 8 | SL | NBR | 22.2100.1791 |
| 65 | 85 | 8 | SL | FKM | 22.2200.6586 |
| 65 | 85 | 8 | DL | NBR | 22.2110.1546 |
| 65 | 85 | 10 | SL | NBR | 22.2100.0911 |
| 65 | 85 | 10 | SL | NBR | 22.2100.6585 |
| 65 | 85 | 10 | SL | FKM | 22.2200.6585 |
| 65 | 85 | 10 | DL | NBR | 22.2110.5744 |
| 65 | 85 | 10 | DL | FKM | 22.2210.6585 |
| 65 | 85 | 12 | SL | NBR | 22.2100.0658 |
| 65 | 85 | 12 | SL | FKM | 22.2200.3511 |
| 65 | 85 | 12 | DL | NBR | 22.2110.4854 |
| 65 | 85 | 13 | DL | NBR | 22.2110.9856 |
| 65 | 85 | 13 | DL | FKM | 22.2210.6588 |
| 65 | 85 | 16 | DL | FKM | 22.2210.6586 |
| 65 | 88 | 12 | DL | NBR | 22.2110.8865 |
| 65 | 90 | 8 | DL | NBR | 22.2110.0698 |
| 65 | 90 | 10 | SL | NBR | 22.2100.6590 |
| 65 | 90 | 10 | SL | FKM | 22.2200.6591 |
| 65 | 90 | 10 | DL | NBR | 22.2110.5107 |
| 65 | 90 | 10 | DL | FKM | 22.2210.6590 |
| 65 | 90 | 12 | SL | NBR | 22.2100.9065 |
| 65 | 90 | 12 | SL | FKM | 22.2200.6590 |
| 65 | 90 | 12 | DL | NBR | 22.2110.6590 |
| 65 | 90 | 13 | SL | FKM | 22.2200.6513 |
| 65 | 90 | 13 | DL | NBR | 22.2110.0715 |
| 65 | 90 | 13 | DL | NBR | 22.2110.6048 |
| 65 | 90 | 13 | DL | FKM | 22.2210.6513 |
| 65 | 90 | 15 | DL | NBR | 22.2110.6515 |
| 65 | 92 | 12 | SL | NBR | 22.2100.0650 |
| 65 | 92 | 13 | DL | NBR | 22.2110.6592 |
| 65 | 95 | 10 | SL | NBR | 22.2100.6000 |
| 65 | 95 | 10 | SL | FKM | 22.2200.6595 |
| 65 | 95 | 10 | DL | NBR | 22.2110.3694 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|-------|-------|------|--------|----------|---------------------|
| 65 | 95 | 10 | DL | FKM | 22.2210.6595 |
| 65 | 95 | 12 | DL | NBR | 22.2110.6595 |
| 65 | 95 | 13 | SL | FKM | 22.2200.3007 |
| 65 | 95 | 13 | DL | NBR | 22.2110.0494 |
| 65 | 100 | 10 | SL | NBR | 22.2100.6510 |
| 65 | 100 | 10 | DL | NBR | 22.2110.7410 |
| 65 | 100 | 10 | DL | FKM | 22.2210.6510 |
| 65 | 100 | 12 | SL | NBR | 22.2100.6438 |
| 65 | 100 | 12 | SL | FKM | 22.2200.0031 |
| 65 | 100 | 12 | DL | NBR | 22.2110.0041 |
| 65 | 100 | 13 | SL | NBR | 22.2100.6130 |
| 65 | 100 | 13 | SL | FKM | 22.2200.4853 |
| 65 | 100 | 13 | DL | NBR | 22.2110.6845 |
| 65 | 110 | 10 | SL | NBR | 22.2100.4687 |
| 65 | 110 | 10 | SL | FKM | 22.2200.6511 |
| 65 | 110 | 10 | DL | NBR | 22.2110.8674 |
| 65 | 120 | 10 | DL | NBR | 22.2110.0176 |
| 65 | 120 | 12 | SL | NBR | 22.2100.6512 |
| 65 | 120 | 12 | DL | FKM | 22.2210.6512 |
| 65 | 120 | 13 | DL | NBR | 22.2110.6512 |
| 65 | 125 | 12 | SL | NBR | 22.2100.6235 |
| 65 | 125 | 12 | SL | FKM | 22.2200.6512 |
| 65 | 140 | 10 | DL | NBR | 22.2110.6510 |
| 66 | 100 | 11 | SL | NBR | 22.2100.6686 |
| 66,67 | 89,02 | 12,7 | AEX DL | NBR | 22.2140.6667 |
| 67 | 85 | 10 | T2 SL | NBR | 22.2350.6785 |
| 67 | 89 | 13 | AEX DL | NBR | 22.2140.6789 |
| 68 | 85 | 10 | AEX SL | NBR | 22.2300.6004 |
| 68 | 90 | 10 | AEX SL | NBR | 22.2300.6890 |
| 68 | 90 | 10 | T2 SL | NBR | 22.2350.6890 |
| 68 | 90 | 13 | AEX SL | NBR | 22.2300.1854 |
| 68 | 80 | 8 | DL | NBR | 22.2110.1845 |
| 68 | 80 | 10 | DL | NBR | 22.2110.6880 |
| 68 | 82 | 7 | DL | NBR | 22.2110.0451 |
| 68 | 82 | 10 | SL | NBR | 22.2100.6882 |
| 68 | 85 | 8 | SL | NBR | 22.2100.3123 |
| 68 | 85 | 10 | SL | NBR | 22.2100.4451 |
| 68 | 85 | 10 | DL | NBR | 22.2110.6415 |
| 68 | 85 | 13 | DL | NBR | 22.2110.4115 |
| 68 | 87 | 8 | DL | NBR | 22.2110.3541 |
| 68 | 90 | 7 | DL | NBR | 22.2110.0127 |
| 68 | 90 | 10 | SL | NBR | 22.2100.6890 |
| 68 | 90 | 10 | SL | FKM | 22.2200.6890 |
| 68 | 90 | 10 | DL | NBR | 22.2110.4519 |
| 68 | 90 | 10 | DL | FKM | 22.2210.6890 |
| 68 | 90 | 12 | SL | NBR | 22.2100.6812 |

| ID | OD | H | Type | Material | Item no. |
|-------|-------|-------|--------|----------|---------------------|
| 68 | 90 | 12 | DL | NBR | 22.2110.9147 |
| 68 | 90 | 13 | DL | NBR | 22.2110.6890 |
| 68 | 95 | 13 | SL | NBR | 22.2100.0642 |
| 68 | 95 | 13 | DL | NBR | 22.2110.5694 |
| 68 | 100 | 10 | SL | FKM | 22.2200.6681 |
| 68 | 100 | 10 | DL | NBR | 22.2110.6800 |
| 68 | 100 | 12 | DL | NBR | 22.2110.0485 |
| 68 | 100 | 13 | SL | NBR | 22.2100.6813 |
| 68 | 110 | 13 | DL | NBR | 22.2110.6811 |
| 69 | 90 | 10 | SL | NBR | 22.2100.0648 |
| 69,85 | 98,43 | 11,91 | AEX SL | NBR | 22.2300.6985 |
| 70 | 85 | 6 | AEX SL | NBR | 22.2300.7086 |
| 70 | 85 | 8 | AEX SL | NBR | 22.2300.0070 |
| 70 | 85 | 8 | T2 SL | NBR | 22.2350.0070 |
| 70 | 90 | 10 | AEX SL | NBR | 22.2300.7091 |
| 70 | 90 | 10 | AEX DL | NBR | 22.2140.7090 |
| 70 | 90 | 10 | T2 SL | NBR | 22.2350.7090 |
| 70 | 95 | 13 | AEX DL | NBR | 22.2140.7095 |
| 70 | 100 | 10 | AEX SL | NBR | 22.2300.7010 |
| 70 | 100 | 13 | T2 SL | NBR | 22.2350.7010 |
| 70 | 105 | 13 | AEX DL | NBR | 22.2140.7015 |
| 70 | 110 | 10 | AEX SL | NBR | 22.2300.9008 |
| 70 | 80 | 6 | SL | NBR | 22.2100.7080 |
| 70 | 80 | 10 | DL | NBR | 22.2110.2180 |
| 70 | 83 | 5 | SL | NBR | 22.2100.7083 |
| 70 | 84 | 8 | DL | NBR | 22.2110.0708 |
| 70 | 85 | 7 | SL | NBR | 22.2100.7085 |
| 70 | 85 | 8 | SL | NBR | 22.2100.4152 |
| 70 | 85 | 8 | SL | FKM | 22.2200.7085 |
| 70 | 85 | 8 | DL | NBR | 22.2110.7085 |
| 70 | 85 | 8 | DL | FKM | 22.2210.7085 |
| 70 | 85 | 10 | SL | NBR | 22.2100.0609 |
| 70 | 85 | 10 | SL | FKM | 22.2200.4214 |
| 70 | 85 | 10 | DL | NBR | 22.2110.4967 |
| 70 | 86 | 8,5 | SL | NBR | 22.2100.7086 |
| 70 | 88 | 8 | DL | NBR | 22.2110.0888 |
| 70 | 88 | 9 | SL | FKM | 22.2200.7088 |
| 70 | 90 | 7 | SL | NBR | 22.2100.0907 |
| 70 | 90 | 7 | DL | NBR | 22.2110.7090 |
| 70 | 90 | 7 | DL | FKM | 22.2210.0709 |
| 70 | 90 | 10 | SL | NBR | 22.2100.7090 |
| 70 | 90 | 10 | SL | FKM | 22.2200.7091 |
| 70 | 90 | 10 | DL | NBR | 22.2110.0770 |
| 70 | 90 | 10 | DL | FKM | 22.2210.7090 |
| 70 | 90 | 12 | SL | NBR | 22.2100.7091 |
| 70 | 90 | 12 | SL | FKM | 22.2200.7096 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|----|-----|----|------|----------|---------------------|
| 70 | 90 | 12 | DL | NBR | 22.2110.7092 |
| 70 | 90 | 13 | SL | NBR | 22.2100.7089 |
| 70 | 90 | 13 | SL | FKM | 22.2200.7090 |
| 70 | 90 | 13 | DL | NBR | 22.2110.0771 |
| 70 | 92 | 12 | SL | NBR | 22.2100.0770 |
| 70 | 92 | 12 | DL | NBR | 22.2110.0775 |
| 70 | 92 | 13 | SL | NBR | 22.2100.7092 |
| 70 | 92 | 13 | DL | NBR | 22.2110.0777 |
| 70 | 93 | 12 | DL | NBR | 22.2110.7093 |
| 70 | 95 | 10 | SL | NBR | 22.2100.0774 |
| 70 | 95 | 10 | DL | NBR | 22.2110.0779 |
| 70 | 95 | 10 | DL | FKM | 22.2210.7095 |
| 70 | 95 | 12 | SL | NBR | 22.2100.7095 |
| 70 | 95 | 12 | DL | NBR | 22.2110.7770 |
| 70 | 95 | 13 | SL | NBR | 22.2100.0779 |
| 70 | 95 | 13 | DL | NBR | 22.2110.7772 |
| 70 | 100 | 6 | SL | NBR | 22.2100.0305 |
| 70 | 100 | 8 | DL | NBR | 22.2110.7018 |
| 70 | 100 | 8 | DL | FKM | 22.2210.0708 |
| 70 | 100 | 10 | SL | NBR | 22.2100.7011 |
| 70 | 100 | 10 | SL | FKM | 22.2200.7010 |
| 70 | 100 | 10 | DL | NBR | 22.2110.7774 |
| 70 | 100 | 10 | DL | FKM | 22.2210.4521 |
| 70 | 100 | 12 | SL | NBR | 22.2100.7770 |
| 70 | 100 | 12 | SL | FKM | 22.2200.7012 |
| 70 | 100 | 12 | DL | NBR | 22.2110.7010 |
| 70 | 100 | 12 | DL | NBR | 22.2110.7775 |
| 70 | 100 | 13 | SL | NBR | 22.2100.7772 |
| 70 | 100 | 13 | SL | FKM | 22.2200.0103 |
| 70 | 100 | 13 | DL | NBR | 22.2110.7776 |
| 70 | 100 | 15 | DL | NBR | 22.2110.7015 |
| 70 | 105 | 10 | SL | NBR | 22.2100.0461 |
| 70 | 105 | 13 | SL | NBR | 22.2100.7774 |
| 70 | 105 | 13 | DL | NBR | 22.2110.7777 |
| 70 | 110 | 8 | SL | NBR | 22.2100.4040 |
| 70 | 110 | 8 | SL | FKM | 22.2200.7011 |
| 70 | 110 | 8 | DL | NBR | 22.2110.7789 |
| 70 | 110 | 8 | DL | FKM | 22.2210.7010 |
| 70 | 110 | 10 | SL | NBR | 22.2100.7799 |
| 70 | 110 | 10 | DL | NBR | 22.2110.7722 |
| 70 | 110 | 12 | SL | NBR | 22.2100.7010 |
| 70 | 110 | 12 | SL | FKM | 22.2200.7070 |
| 70 | 110 | 12 | DL | NBR | 22.2110.7011 |
| 70 | 110 | 12 | DL | FKM | 22.2210.7011 |
| 70 | 110 | 13 | SL | NBR | 22.2100.0787 |
| 70 | 110 | 13 | DL | NBR | 22.2110.7710 |

| ID | OD | H | Type | Material | Item no. |
|-------|-------|------|--------|----------|---------------------|
| 70 | 111 | 13 | SL | NBR | 22.2100.3020 |
| 70 | 115 | 13 | DL | NBR | 22.2110.7755 |
| 70 | 115 | 15 | SL | NBR | 22.2100.1071 |
| 70 | 115 | 15 | DL | NBR | 22.2110.7745 |
| 70 | 120 | 13 | SL | NBR | 22.2100.8787 |
| 70 | 125 | 12 | SL | NBR | 22.2100.5500 |
| 70 | 125 | 12 | DL | NBR | 22.2110.5501 |
| 70 | 135 | 12 | SL | NBR | 22.2100.7013 |
| 72 | 84 | 7 | AEX DL | NBR | 22.2140.7284 |
| 72 | 90 | 10 | AEX DL | NBR | 22.2140.7290 |
| 72 | 95 | 13 | AEX DL | NBR | 22.2140.7295 |
| 72 | 85 | 8 | SL | NBR | 22.2100.7285 |
| 72 | 85 | 8 | SL | FKM | 22.2200.7285 |
| 72 | 85 | 10 | SL | NBR | 22.2100.0694 |
| 72 | 85 | 10 | SL | FKM | 22.2200.7284 |
| 72 | 86 | 7 | DL | NBR | 22.2110.7286 |
| 72 | 90 | 10 | SL | NBR | 22.2100.5504 |
| 72 | 95 | 10 | SL | NBR | 22.2100.7295 |
| 72 | 95 | 10 | SL | FKM | 22.2200.7295 |
| 72 | 95 | 10 | DL | NBR | 22.2110.7295 |
| 72 | 95 | 12 | SL | NBR | 22.2100.5506 |
| 72 | 95 | 12 | DL | NBR | 22.2110.0620 |
| 72 | 95 | 13 | SL | NBR | 22.2100.7296 |
| 72 | 100 | 10 | SL | NBR | 22.2100.7210 |
| 72 | 100 | 10 | SL | FKM | 22.2200.0234 |
| 72 | 100 | 10 | DL | NBR | 22.2110.5507 |
| 72 | 100 | 10 | DL | FKM | 22.2210.7210 |
| 72 | 100 | 12 | DL | NBR | 22.2110.7210 |
| 72 | 100 | 12 | DL | FKM | 22.2210.0023 |
| 72 | 100 | 13 | SL | NBR | 22.2100.5505 |
| 72 | 100 | 13 | SL | FKM | 22.2200.3741 |
| 72 | 100 | 13 | DL | NBR | 22.2110.7213 |
| 72 | 105 | 10 | DL | NBR | 22.2110.7205 |
| 72 | 105 | 13 | DL | NBR | 22.2110.5508 |
| 72 | 140 | 12 | DL | FKM | 22.2210.0033 |
| 73 | 90 | 8 | AEX DL | NBR | 22.2140.7390 |
| 73 | 95 | 10 | SL | NBR | 22.2100.5509 |
| 74 | 90 | 10 | AEX DL | NBR | 22.2140.7490 |
| 74 | 100 | 13 | AEX SL | NBR | 22.2300.7410 |
| 74 | 90 | 13 | DL | NBR | 22.2110.7490 |
| 74 | 95 | 10 | DL | NBR | 22.2110.7495 |
| 74 | 135 | 15 | SL | NBR | 22.2100.7413 |
| 74,61 | 92,08 | 9,52 | T2 SL | NBR | 22.2350.7492 |
| 75 | 95 | 5 | AEX SL | NBR | 22.2300.6365 |
| 75 | 95 | 10 | AEX SL | NBR | 22.2300.7595 |
| 75 | 95 | 10 | AEX DL | NBR | 22.2140.7595 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|----|-----|----|--------|----------|---------------------|
| 75 | 95 | 10 | T2 SL | NBR | 22.2350.0759 |
| 75 | 100 | 10 | AEX SL | NBR | 22.2300.7475 |
| 75 | 100 | 10 | AEX DL | NBR | 22.2140.7510 |
| 75 | 100 | 10 | T2 SL | NBR | 22.2350.7511 |
| 75 | 100 | 12 | AEX SL | NBR | 22.2300.0777 |
| 75 | 100 | 12 | T2 SL | NBR | 22.2350.7510 |
| 75 | 100 | 13 | AEX DL | NBR | 22.2140.7513 |
| 75 | 100 | 13 | T2 SL | NBR | 22.2350.7513 |
| 75 | 105 | 12 | AEX DL | NBR | 22.2140.7552 |
| 75 | 105 | 12 | T2 DL | NBR | 22.2354.0075 |
| 75 | 110 | 10 | AEX SL | NBR | 22.2300.1414 |
| 75 | 110 | 13 | AEX DL | NBR | 22.2140.2511 |
| 75 | 115 | 13 | T2 SL | NBR | 22.2350.0751 |
| 75 | 90 | 6 | DL | NBR | 22.2110.5906 |
| 75 | 90 | 8 | SL | NBR | 22.2100.3233 |
| 75 | 90 | 8 | SL | FKM | 22.2200.7590 |
| 75 | 90 | 8 | DL | NBR | 22.2110.7590 |
| 75 | 90 | 10 | SL | NBR | 22.2100.7590 |
| 75 | 90 | 10 | SL | FKM | 22.2200.0334 |
| 75 | 90 | 10 | DL | NBR | 22.2110.3236 |
| 75 | 95 | 7 | DL | NBR | 22.2110.3234 |
| 75 | 95 | 8 | SL | NBR | 22.2100.7500 |
| 75 | 95 | 8 | DL | NBR | 22.2110.3237 |
| 75 | 95 | 8 | DL | FKM | 22.2210.0208 |
| 75 | 95 | 9 | DL | NBR | 22.2110.7595 |
| 75 | 95 | 10 | SL | NBR | 22.2100.7595 |
| 75 | 95 | 10 | SL | FKM | 22.2200.7555 |
| 75 | 95 | 10 | DL | NBR | 22.2110.0328 |
| 75 | 95 | 10 | DL | FKM | 22.2210.7595 |
| 75 | 95 | 12 | SL | NBR | 22.2100.7596 |
| 75 | 95 | 12 | SL | FKM | 22.2200.7595 |
| 75 | 95 | 12 | DL | NBR | 22.2110.5635 |
| 75 | 95 | 13 | SL | NBR | 22.2100.4685 |
| 75 | 98 | 12 | DL | NBR | 22.2110.7592 |
| 75 | 100 | 7 | SL | NBR | 22.2100.5544 |
| 75 | 100 | 10 | SL | NBR | 22.2100.7510 |
| 75 | 100 | 10 | SL | FKM | 22.2200.7510 |
| 75 | 100 | 10 | DL | NBR | 22.2110.1075 |
| 75 | 100 | 10 | DL | FKM | 22.2210.0075 |
| 75 | 100 | 12 | SL | NBR | 22.2100.7513 |
| 75 | 100 | 12 | SL | FKM | 22.2200.7512 |
| 75 | 100 | 12 | DL | NBR | 22.2110.7502 |
| 75 | 100 | 13 | SL | NBR | 22.2100.7511 |
| 75 | 100 | 13 | DL | NBR | 22.2110.2985 |
| 75 | 100 | 15 | DL | NBR | 22.2110.7515 |
| 75 | 102 | 12 | SL | NBR | 22.2100.7550 |

| ID | OD | H | Type | Material | Item no. |
|----|-----|----|--------|----------|---------------------|
| 75 | 102 | 12 | DL | NBR | 22.2110.3239 |
| 75 | 105 | 12 | SL | NBR | 22.2100.7005 |
| 75 | 105 | 12 | DL | NBR | 22.2110.7599 |
| 75 | 105 | 13 | SL | NBR | 22.2100.7599 |
| 75 | 105 | 13 | DL | NBR | 22.2110.7598 |
| 75 | 110 | 10 | SL | NBR | 22.2100.9480 |
| 75 | 110 | 10 | DL | NBR | 22.2110.7597 |
| 75 | 110 | 12 | SL | NBR | 22.2100.7598 |
| 75 | 110 | 12 | SL | FKM | 22.2200.7511 |
| 75 | 110 | 12 | DL | NBR | 22.2110.7596 |
| 75 | 110 | 13 | SL | NBR | 22.2100.6852 |
| 75 | 110 | 13 | SL | FKM | 22.2200.7454 |
| 75 | 110 | 13 | DL | NBR | 22.2110.4987 |
| 75 | 115 | 10 | SL | NBR | 22.2100.3308 |
| 75 | 115 | 10 | DL | FKM | 22.2210.0093 |
| 75 | 115 | 12 | SL | NBR | 22.2100.7515 |
| 75 | 115 | 13 | DL | NBR | 22.2110.0232 |
| 75 | 120 | 10 | SL | NBR | 22.2100.0029 |
| 75 | 120 | 12 | SL | NBR | 22.2100.8526 |
| 75 | 120 | 12 | SL | FKM | 22.2200.7522 |
| 75 | 120 | 12 | DL | NBR | 22.2110.7512 |
| 75 | 125 | 12 | SL | NBR | 22.2100.4553 |
| 75 | 130 | 12 | SL | NBR | 22.2100.4323 |
| 75 | 130 | 13 | SL | NBR | 22.2100.8474 |
| 76 | 100 | 12 | DL | NBR | 22.2110.5586 |
| 76 | 105 | 13 | SL | NBR | 22.2100.4987 |
| 76 | 105 | 13 | SL | FKM | 22.2200.7610 |
| 76 | 105 | 13 | DL | NBR | 22.2110.7498 |
| 77 | 100 | 10 | SL | FKM | 22.2200.7710 |
| 78 | 95 | 11 | SL | NBR | 22.2100.9678 |
| 78 | 100 | 10 | SL | NBR | 22.2100.7810 |
| 78 | 100 | 10 | SL | FKM | 22.2200.7810 |
| 78 | 100 | 10 | DL | NBR | 22.2110.8579 |
| 78 | 100 | 10 | DL | FKM | 22.2210.7810 |
| 78 | 100 | 12 | DL | NBR | 22.2110.5798 |
| 78 | 100 | 13 | SL | NBR | 22.2100.0781 |
| 78 | 100 | 13 | DL | NBR | 22.2110.7813 |
| 78 | 110 | 12 | SL | NBR | 22.2100.7811 |
| 78 | 110 | 12 | DL | NBR | 22.2110.9933 |
| 78 | 110 | 13 | DL | NBR | 22.2110.9875 |
| 80 | 100 | 10 | AEX SL | NBR | 22.2300.0801 |
| 80 | 100 | 10 | AEX DL | NBR | 22.2140.8011 |
| 80 | 100 | 10 | T2 SL | NBR | 22.2350.0080 |
| 80 | 100 | 12 | T2 SL | NBR | 22.2350.8010 |
| 80 | 105 | 10 | AEX DL | NBR | 22.2140.8019 |
| 80 | 105 | 13 | AEX DL | NBR | 22.2140.1052 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|----|-----|-----|--------|----------|---------------------|
| 80 | 105 | 13 | AEX DL | FKM | 22.2240.8105 |
| 80 | 110 | 12 | T2 SL | NBR | 22.2350.0811 |
| 80 | 110 | 13 | AEX DL | NBR | 22.2140.1113 |
| 80 | 150 | 12 | AEX DL | NBR | 22.2140.0815 |
| 80 | 95 | 8 | SL | NBR | 22.2100.9977 |
| 80 | 95 | 8 | SL | FKM | 22.2200.8095 |
| 80 | 95 | 8 | DL | NBR | 22.2110.8095 |
| 80 | 95 | 10 | SL | NBR | 22.2100.9988 |
| 80 | 95 | 10 | DL | NBR | 22.2110.0010 |
| 80 | 100 | 10 | SL | NBR | 22.2100.8010 |
| 80 | 100 | 10 | SL | FKM | 22.2200.8009 |
| 80 | 100 | 10 | DL | NBR | 22.2110.0989 |
| 80 | 100 | 10 | DL | FKM | 22.2210.8010 |
| 80 | 100 | 12 | SL | NBR | 22.2100.5084 |
| 80 | 100 | 12 | SL | FKM | 22.2200.8888 |
| 80 | 100 | 12 | DL | NBR | 22.2110.8010 |
| 80 | 100 | 13 | SL | NBR | 22.2100.8011 |
| 80 | 100 | 13 | SL | FKM | 22.2200.8013 |
| 80 | 100 | 13 | DL | NBR | 22.2110.0165 |
| 80 | 100 | 13 | DL | FKM | 22.2210.3012 |
| 80 | 100 | 14 | SL | NBR | 22.2100.8019 |
| 80 | 105 | 8,5 | DL | NBR | 22.2110.8085 |
| 80 | 105 | 10 | DL | NBR | 22.2110.1058 |
| 80 | 105 | 12 | SL | NBR | 22.2100.8888 |
| 80 | 105 | 12 | SL | FKM | 22.2200.8010 |
| 80 | 105 | 12 | DL | NBR | 22.2110.8960 |
| 80 | 105 | 13 | SL | NBR | 22.2100.0460 |
| 80 | 105 | 13 | SL | FKM | 22.2200.5447 |
| 80 | 105 | 13 | DL | NBR | 22.2110.4599 |
| 80 | 105 | 15 | DL | NBR | 22.2110.8015 |
| 80 | 108 | 15 | DL | NBR | 22.2110.8008 |
| 80 | 110 | 10 | SL | NBR | 22.2100.5467 |
| 80 | 110 | 10 | SL | FKM | 22.2200.4167 |
| 80 | 110 | 10 | DL | NBR | 22.2110.9416 |
| 80 | 110 | 10 | DL | FKM | 22.2210.8011 |
| 80 | 110 | 12 | SL | NBR | 22.2100.1937 |
| 80 | 110 | 12 | SL | FKM | 22.2200.8011 |
| 80 | 110 | 12 | DL | NBR | 22.2110.0994 |
| 80 | 110 | 13 | SL | NBR | 22.2100.8013 |
| 80 | 110 | 13 | DL | NBR | 22.2110.0130 |
| 80 | 110 | 15 | DL | NBR | 22.2110.5136 |
| 80 | 115 | 10 | SL | NBR | 22.2100.8999 |
| 80 | 115 | 10 | DL | NBR | 22.2110.0584 |
| 80 | 115 | 13 | SL | NBR | 22.2100.3330 |
| 80 | 115 | 13 | DL | NBR | 22.2110.8156 |
| 80 | 115 | 15 | DL | NBR | 22.2110.8115 |

| ID | OD | H | Type | Material | Item no. |
|-------|--------|-------|--------|----------|---------------------|
| 80 | 120 | 12 | DL | NBR | 22.2110.1897 |
| 80 | 120 | 13 | SL | NBR | 22.2100.8014 |
| 80 | 120 | 13 | SL | FKM | 22.2200.8002 |
| 80 | 120 | 13 | DL | NBR | 22.2110.5968 |
| 80 | 125 | 10 | DL | NBR | 22.2110.0226 |
| 80 | 125 | 10 | DL | FKM | 22.2210.0166 |
| 80 | 125 | 12 | SL | NBR | 22.2100.8015 |
| 80 | 125 | 12 | SL | FKM | 22.2200.8012 |
| 80 | 125 | 12 | DL | NBR | 22.2110.8012 |
| 80 | 125 | 13 | SL | NBR | 22.2100.8016 |
| 80 | 125 | 13 | DL | NBR | 22.2110.8125 |
| 80 | 130 | 13 | SL | NBR | 22.2100.0801 |
| 80 | 140 | 13 | SL | NBR | 22.2100.1548 |
| 80 | 140 | 13 | SL | FKM | 22.2200.8014 |
| 80 | 140 | 13 | DL | NBR | 22.2110.8013 |
| 80 | 150 | 15 | DL | NBR | 22.2110.0398 |
| 82 | 110 | 13 | T2 SL | NBR | 22.2350.8211 |
| 82 | 100 | 8 | SL | NBR | 22.2100.2851 |
| 82 | 105 | 10 | DL | FKM | 22.2210.0073 |
| 82 | 105 | 12 | SL | NBR | 22.2100.6453 |
| 82 | 105 | 12 | DL | NBR | 22.2110.0465 |
| 82 | 105 | 13 | DL | NBR | 22.2110.0415 |
| 82 | 110 | 12 | SL | NBR | 22.2100.8211 |
| 82 | 110 | 12 | SL | FKM | 22.2200.8211 |
| 82,55 | 107,95 | 11,91 | AEX DL | NBR | 22.2140.0825 |
| 83 | 97 | 8 | SL | NBR | 22.2100.8397 |
| 84 | 100 | 13 | SL | NBR | 22.2100.8401 |
| 84 | 105 | 12 | DL | NBR | 22.2110.8412 |
| 84 | 110 | 16 | DL | NBR | 22.2110.8416 |
| 85 | 100 | 9 | AEX SL | NBR | 22.2300.8554 |
| 85 | 105 | 10 | AEX DL | NBR | 22.2140.0555 |
| 85 | 105 | 13 | T2 SL | NBR | 22.2350.8512 |
| 85 | 110 | 12 | AEX SL | NBR | 22.2300.9644 |
| 85 | 110 | 12 | AEX DL | NBR | 22.2140.0504 |
| 85 | 110 | 12 | T2 SL | NBR | 22.2350.0085 |
| 85 | 130 | 13 | T2 SL | NBR | 22.2350.8517 |
| 85 | 100 | 6 | DL | NBR | 22.2110.8506 |
| 85 | 100 | 6 | DL | FKM | 22.2210.0199 |
| 85 | 100 | 7 | SL | NBR | 22.2100.0855 |
| 85 | 100 | 9 | SL | NBR | 22.2100.0859 |
| 85 | 100 | 10 | SL | NBR | 22.2100.1297 |
| 85 | 100 | 10 | DL | NBR | 22.2110.9354 |
| 85 | 100 | 12 | SL | NBR | 22.2100.3241 |
| 85 | 100 | 12 | DL | NBR | 22.2110.6541 |
| 85 | 100 | 13 | DL | NBR | 22.2110.8614 |
| 85 | 102 | 9 | DL | NBR | 22.2110.8529 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|----|-----|----|------|----------|---------------------|
| 85 | 102 | 13 | SL | NBR | 22.2100.0599 |
| 85 | 105 | 7 | DL | FKM | 22.2210.0176 |
| 85 | 105 | 8 | SL | NBR | 22.2100.8585 |
| 85 | 105 | 10 | SL | NBR | 22.2100.8510 |
| 85 | 105 | 10 | DL | NBR | 22.2110.8746 |
| 85 | 105 | 12 | SL | NBR | 22.2100.8514 |
| 85 | 105 | 12 | DL | NBR | 22.2110.0006 |
| 85 | 105 | 12 | DL | FKM | 22.2210.8510 |
| 85 | 105 | 13 | SL | NBR | 22.2100.1658 |
| 85 | 105 | 13 | DL | NBR | 22.2110.5330 |
| 85 | 107 | 7 | DL | FKM | 22.2210.8507 |
| 85 | 108 | 14 | SL | NBR | 22.2100.8108 |
| 85 | 110 | 10 | SL | NBR | 22.2100.4796 |
| 85 | 110 | 10 | DL | NBR | 22.2110.8501 |
| 85 | 110 | 12 | SL | NBR | 22.2100.0085 |
| 85 | 110 | 12 | SL | FKM | 22.2200.8512 |
| 85 | 110 | 12 | DL | NBR | 22.2110.5146 |
| 85 | 110 | 12 | DL | FKM | 22.2210.8511 |
| 85 | 110 | 13 | SL | NBR | 22.2100.8511 |
| 85 | 110 | 13 | SL | FKM | 22.2200.0805 |
| 85 | 110 | 13 | DL | NBR | 22.2110.8511 |
| 85 | 110 | 13 | DL | FKM | 22.2210.8513 |
| 85 | 110 | 15 | SL | NBR | 22.2100.0584 |
| 85 | 110 | 15 | DL | NBR | 22.2110.8515 |
| 85 | 115 | 13 | SL | NBR | 22.2100.5151 |
| 85 | 115 | 13 | SL | FKM | 22.2200.1545 |
| 85 | 115 | 13 | DL | NBR | 22.2110.4198 |
| 85 | 120 | 12 | SL | NBR | 22.2100.0054 |
| 85 | 120 | 12 | SL | FKM | 22.2200.0814 |
| 85 | 120 | 12 | DL | NBR | 22.2110.1435 |
| 85 | 120 | 13 | SL | NBR | 22.2100.4511 |
| 85 | 120 | 13 | DL | NBR | 22.2110.8513 |
| 85 | 120 | 13 | DL | FKM | 22.2210.8545 |
| 85 | 120 | 15 | DL | NBR | 22.2110.8512 |
| 85 | 120 | 17 | DL | NBR | 22.2110.8517 |
| 85 | 124 | 12 | DL | NBR | 22.2110.8524 |
| 85 | 125 | 7 | SL | NBR | 22.2100.8244 |
| 85 | 125 | 12 | SL | FKM | 22.2200.0254 |
| 85 | 125 | 13 | DL | NBR | 22.2110.2635 |
| 85 | 126 | 13 | SL | FKM | 22.2200.0984 |
| 85 | 130 | 10 | DL | NBR | 22.2110.8530 |
| 85 | 130 | 12 | SL | NBR | 22.2100.8512 |
| 85 | 130 | 12 | DL | NBR | 22.2110.1154 |
| 85 | 130 | 13 | DL | NBR | 22.2110.8533 |
| 85 | 130 | 13 | DL | FKM | 22.2210.0004 |
| 85 | 140 | 12 | DL | NBR | 22.2110.0396 |

| ID | OD | H | Type | Material | Item no. |
|-------|--------|-----|--------|----------|---------------------|
| 85 | 140 | 14 | DL | NBR | 22.2110.8540 |
| 85 | 150 | 12 | DL | NBR | 22.2110.2351 |
| 85 | 150 | 13 | SL | NBR | 22.2100.8515 |
| 85,72 | 111,12 | 9,5 | T2 DL | NBR | 22.2354.8572 |
| 86 | 110 | 13 | AEX DL | NBR | 22.2140.8611 |
| 86 | 110 | 13 | SL | NBR | 22.2100.8611 |
| 87 | 110 | 13 | SL | FKM | 22.2200.8711 |
| 88 | 100 | 13 | SL | NBR | 22.2100.8810 |
| 88 | 110 | 12 | SL | NBR | 22.2100.5261 |
| 88 | 110 | 13 | SL | NBR | 22.2100.5861 |
| 88 | 110 | 13 | SL | FKM | 22.2200.8811 |
| 88 | 115 | 12 | DL | NBR | 22.2110.8812 |
| 88 | 120 | 12 | SL | NBR | 22.2100.4576 |
| 88 | 126 | 12 | SL | NBR | 22.2100.8812 |
| 88 | 140 | 13 | SL | NBR | 22.2100.8814 |
| 89 | 114 | 14 | DL | NBR | 22.2110.8914 |
| 89 | 115 | 13 | DL | NBR | 22.2110.8913 |
| 90 | 110 | 8 | AEX SL | NBR | 22.2300.0908 |
| 90 | 110 | 10 | AEX DL | NBR | 22.2140.0030 |
| 90 | 110 | 13 | AEX DL | NBR | 22.2140.9013 |
| 90 | 115 | 9 | AEX SL | NBR | 22.2300.7474 |
| 90 | 115 | 13 | AEX DL | NBR | 22.2140.9011 |
| 90 | 118 | 12 | T2 DL | NBR | 22.2354.9011 |
| 90 | 120 | 10 | AEX SL | NBR | 22.2300.9012 |
| 90 | 120 | 13 | AEX DL | NBR | 22.2140.9120 |
| 90 | 130 | 13 | T2 SL | NBR | 22.2350.9013 |
| 90 | 105 | 5 | SL SR | NBR | 22.2160.9010 |
| 90 | 105 | 6 | DL | NBR | 22.2110.0242 |
| 90 | 105 | 10 | SL | NBR | 22.2100.0320 |
| 90 | 105 | 10 | DL | NBR | 22.2110.0043 |
| 90 | 110 | 8 | SL | NBR | 22.2100.9011 |
| 90 | 110 | 8 | DL | NBR | 22.2110.0590 |
| 90 | 110 | 8 | DL | FKM | 22.2210.9118 |
| 90 | 110 | 10 | SL | NBR | 22.2100.6185 |
| 90 | 110 | 10 | DL | NBR | 22.2110.0145 |
| 90 | 110 | 10 | DL | FKM | 22.2210.9110 |
| 90 | 110 | 12 | SL | NBR | 22.2100.9012 |
| 90 | 110 | 12 | SL | FKM | 22.2200.9011 |
| 90 | 110 | 12 | DL | NBR | 22.2110.9485 |
| 90 | 110 | 12 | DL | FKM | 22.2210.2210 |
| 90 | 110 | 13 | SL | NBR | 22.2100.9013 |
| 90 | 110 | 13 | DL | NBR | 22.2110.5241 |
| 90 | 110 | 13 | DL | FKM | 22.2210.9011 |
| 90 | 110 | 15 | DL | NBR | 22.2110.1456 |
| 90 | 115 | 8 | SL | NBR | 22.2100.9155 |
| 90 | 115 | 10 | DL | NBR | 22.2110.5461 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|----|-----|----|--------|----------|---------------------|
| 90 | 115 | 12 | DL | NBR | 22.2110.9012 |
| 90 | 115 | 13 | SL | NBR | 22.2100.1475 |
| 90 | 115 | 13 | SL | FKM | 22.2200.9015 |
| 90 | 115 | 13 | DL | NBR | 22.2110.9013 |
| 90 | 115 | 13 | DL | FKM | 22.2210.0901 |
| 90 | 120 | 12 | SL | NBR | 22.2100.9010 |
| 90 | 120 | 12 | SL | FKM | 22.2200.9012 |
| 90 | 120 | 12 | DL | NBR | 22.2110.6145 |
| 90 | 120 | 12 | DL | FKM | 22.2210.9012 |
| 90 | 120 | 13 | SL | NBR | 22.2100.9014 |
| 90 | 120 | 13 | SL | FKM | 22.2200.3541 |
| 90 | 120 | 13 | DL | NBR | 22.2110.0084 |
| 90 | 120 | 15 | DL | NBR | 22.2110.9020 |
| 90 | 125 | 13 | SL | NBR | 22.2100.3844 |
| 90 | 125 | 13 | DL | NBR | 22.2110.9415 |
| 90 | 125 | 14 | SL | NBR | 22.2100.0901 |
| 90 | 125 | 14 | SL | FKM | 22.2200.1584 |
| 90 | 130 | 12 | SL | NBR | 22.2100.0561 |
| 90 | 130 | 12 | DL | NBR | 22.2110.3251 |
| 90 | 130 | 12 | DL | FKM | 22.2210.9013 |
| 90 | 130 | 13 | SL | NBR | 22.2100.9015 |
| 90 | 130 | 13 | SL | FKM | 22.2200.9013 |
| 90 | 130 | 13 | DL | NBR | 22.2110.1536 |
| 90 | 140 | 10 | DL | NBR | 22.2110.9141 |
| 90 | 140 | 13 | SL | NBR | 22.2100.9461 |
| 90 | 140 | 13 | DL | NBR | 22.2110.9000 |
| 92 | 105 | 10 | DL | NBR | 22.2110.9210 |
| 92 | 120 | 12 | SL | NBR | 22.2100.3152 |
| 92 | 120 | 12 | DL | NBR | 22.2110.9212 |
| 92 | 120 | 13 | SL | NBR | 22.2100.2981 |
| 92 | 120 | 13 | SL | FKM | 22.2200.9212 |
| 92 | 120 | 14 | SL | FKM | 22.2200.0331 |
| 93 | 120 | 13 | SL | NBR | 22.2100.9312 |
| 95 | 115 | 13 | T2 SL | NBR | 22.2350.9511 |
| 95 | 120 | 13 | AEX SL | NBR | 22.2300.4785 |
| 95 | 120 | 13 | AEX DL | NBR | 22.2140.9512 |
| 95 | 120 | 13 | T2 SL | NBR | 22.2350.9512 |
| 95 | 120 | 15 | T2 SL | NBR | 22.2350.0953 |
| 95 | 110 | 7 | DL | NBR | 22.2110.9507 |
| 95 | 110 | 10 | SL | NBR | 22.2100.9511 |
| 95 | 110 | 10 | SL | FKM | 22.2200.0121 |
| 95 | 110 | 10 | DL | NBR | 22.2110.1543 |
| 95 | 110 | 12 | SL | FKM | 22.2200.9511 |
| 95 | 110 | 12 | DL | NBR | 22.2110.2815 |
| 95 | 112 | 12 | DL | NBR | 22.2110.9512 |
| 95 | 115 | 11 | SL | NBR | 22.2100.6541 |

| ID | OD | H | Type | Material | Item no. |
|----|-----|----|------|----------|---------------------|
| 95 | 115 | 12 | DL | NBR | 22.2110.0351 |
| 95 | 115 | 13 | SL | NBR | 22.2100.8645 |
| 95 | 115 | 13 | SL | FKM | 22.2200.3121 |
| 95 | 115 | 13 | DL | NBR | 22.2110.5284 |
| 95 | 115 | 13 | DL | FKM | 22.2210.9515 |
| 95 | 120 | 8 | DL | NBR | 22.2110.0036 |
| 95 | 120 | 10 | SL | NBR | 22.2100.0951 |
| 95 | 120 | 10 | DL | NBR | 22.2110.0023 |
| 95 | 120 | 10 | DL | FKM | 22.2210.0741 |
| 95 | 120 | 12 | SL | NBR | 22.2100.9512 |
| 95 | 120 | 12 | SL | FKM | 22.2200.9512 |
| 95 | 120 | 12 | DL | NBR | 22.2110.2100 |
| 95 | 120 | 12 | DL | FKM | 22.2210.9512 |
| 95 | 120 | 13 | SL | NBR | 22.2100.6415 |
| 95 | 120 | 13 | SL | FKM | 22.2200.9520 |
| 95 | 120 | 13 | DL | NBR | 22.2110.6245 |
| 95 | 120 | 13 | DL | FKM | 22.2210.0024 |
| 95 | 125 | 12 | SL | NBR | 22.2100.9515 |
| 95 | 125 | 12 | SL | FKM | 22.2200.9513 |
| 95 | 125 | 12 | DL | NBR | 22.2110.0486 |
| 95 | 125 | 12 | DL | FKM | 22.2210.0414 |
| 95 | 125 | 13 | SL | NBR | 22.2100.8874 |
| 95 | 125 | 13 | SL | FKM | 22.2200.8511 |
| 95 | 125 | 13 | DL | FKM | 22.2210.0474 |
| 95 | 125 | 15 | DL | NBR | 22.2110.3451 |
| 95 | 125 | 16 | SL | NBR | 22.2100.9516 |
| 95 | 127 | 12 | SL | NBR | 22.2100.9527 |
| 95 | 130 | 12 | SL | NBR | 22.2100.5846 |
| 95 | 130 | 12 | DL | NBR | 22.2110.4793 |
| 95 | 130 | 13 | SL | NBR | 22.2100.5200 |
| 95 | 130 | 13 | SL | FKM | 22.2200.2131 |
| 95 | 130 | 13 | DL | NBR | 22.2110.3246 |
| 95 | 130 | 15 | DL | NBR | 22.2110.9515 |
| 95 | 132 | 12 | SL | NBR | 22.2100.6159 |
| 95 | 135 | 13 | SL | FKM | 22.2200.9797 |
| 95 | 140 | 13 | DL | NBR | 22.2110.9540 |
| 95 | 145 | 13 | SL | NBR | 22.2100.9514 |
| 95 | 145 | 13 | DL | NBR | 22.2110.3465 |
| 95 | 150 | 15 | SL | FKM | 22.2200.9515 |
| 95 | 160 | 15 | SL | NBR | 22.2100.8000 |
| 95 | 170 | 13 | DL | NBR | 22.2110.0426 |
| 96 | 112 | 10 | SL | NBR | 22.2100.9611 |
| 97 | 123 | 14 | DL | NBR | 22.2110.9714 |
| 97 | 127 | 13 | SL | NBR | 22.2100.9712 |
| 97 | 130 | 14 | SL | NBR | 22.2100.9713 |
| 97 | 167 | 13 | SL | NBR | 22.2100.0975 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|-----|-----|-----|--------|----------|---------------------|
| 98 | 120 | 13 | AEX SL | NBR | 22.2300.0981 |
| 98 | 120 | 13 | AEX DL | NBR | 22.2140.9812 |
| 98 | 130 | 13 | AEX SL | NBR | 22.2300.0414 |
| 98 | 116 | 10 | DL | NBR | 22.2110.0483 |
| 98 | 120 | 13 | SL | NBR | 22.2100.9812 |
| 98 | 120 | 13 | DL | NBR | 22.2110.9813 |
| 98 | 125 | 12 | DL | NBR | 22.2110.9812 |
| 98 | 125 | 13 | SL | NBR | 22.2100.8713 |
| 100 | 120 | 8 | AEX SL | NBR | 22.2300.1001 |
| 100 | 120 | 10 | AEX SL | NBR | 22.2300.1452 |
| 100 | 120 | 10 | T2 SL | NBR | 22.2350.0100 |
| 100 | 120 | 12 | AEX DL | NBR | 22.2140.8423 |
| 100 | 120 | 13 | AEX DL | NBR | 22.2140.1001 |
| 100 | 120 | 13 | T2 SL | NBR | 22.2350.1001 |
| 100 | 125 | 13 | AEX DL | NBR | 22.2140.1251 |
| 100 | 125 | 13 | T2 SL | NBR | 22.2350.1125 |
| 100 | 130 | 13 | T2 SL | NBR | 22.2350.1013 |
| 100 | 134 | 10 | AEX SL | NBR | 22.2300.0100 |
| 100 | 140 | 13 | T2 SL | NBR | 22.2350.1014 |
| 100 | 140 | 15 | AEX DL | NBR | 22.2140.0140 |
| 100 | 115 | 9 | SL | NBR | 22.2100.9449 |
| 100 | 115 | 9 | SL | FKM | 22.2200.1011 |
| 100 | 115 | 9 | DL | FKM | 22.2210.9874 |
| 100 | 115 | 10 | SL | NBR | 22.2100.1011 |
| 100 | 118 | 12 | DL | NBR | 22.2110.3695 |
| 100 | 120 | 7,5 | SL | FKM | 22.2200.1201 |
| 100 | 120 | 8 | SL | NBR | 22.2100.0675 |
| 100 | 120 | 10 | SL | NBR | 22.2100.0100 |
| 100 | 120 | 10 | DL | NBR | 22.2110.8962 |
| 100 | 120 | 10 | DL | FKM | 22.2210.1020 |
| 100 | 120 | 12 | SL | NBR | 22.2100.1012 |
| 100 | 120 | 12 | SL | FKM | 22.2200.1001 |
| 100 | 120 | 12 | DL | NBR | 22.2110.1001 |
| 100 | 120 | 12 | DL | FKM | 22.2210.0100 |
| 100 | 120 | 13 | SL | NBR | 22.2100.5564 |
| 100 | 120 | 13 | SL | FKM | 22.2200.0100 |
| 100 | 120 | 13 | DL | NBR | 22.2110.1697 |
| 100 | 120 | 13 | DL | FKM | 22.2210.0332 |
| 100 | 120 | 17 | DL | NBR | 22.2110.4509 |
| 100 | 125 | 8 | DL | NBR | 22.2110.1008 |
| 100 | 125 | 12 | SL | NBR | 22.2100.1005 |
| 100 | 125 | 12 | SL | FKM | 22.2200.1012 |
| 100 | 125 | 12 | DL | NBR | 22.2110.1005 |
| 100 | 125 | 12 | DL | FKM | 22.2210.1012 |
| 100 | 125 | 13 | SL | NBR | 22.2100.1002 |
| 100 | 125 | 13 | SL | FKM | 22.2200.1202 |

| ID | OD | H | Type | Material | Item no. |
|-----|-----|----|--------|----------|---------------------|
| 100 | 125 | 13 | DL | NBR | 22.2110.3109 |
| 100 | 125 | 15 | SL | NBR | 22.2100.0349 |
| 100 | 127 | 13 | SL | FKM | 22.2200.9001 |
| 100 | 130 | 12 | SL | NBR | 22.2100.1001 |
| 100 | 130 | 12 | SL | FKM | 22.2200.1013 |
| 100 | 130 | 12 | DL | NBR | 22.2110.3291 |
| 100 | 130 | 12 | DL | FKM | 22.2210.1001 |
| 100 | 130 | 13 | SL | NBR | 22.2100.1003 |
| 100 | 130 | 13 | SL | FKM | 22.2200.9002 |
| 100 | 130 | 13 | DL | NBR | 22.2110.4954 |
| 100 | 130 | 14 | SL | FKM | 22.2200.9003 |
| 100 | 130 | 14 | DL | NBR | 22.2110.1954 |
| 100 | 135 | 12 | DL | NBR | 22.2110.1013 |
| 100 | 135 | 15 | DL | FKM | 22.2210.1013 |
| 100 | 140 | 12 | DL | NBR | 22.2110.9457 |
| 100 | 140 | 13 | SL | NBR | 22.2100.7451 |
| 100 | 140 | 13 | SL | FKM | 22.2200.9991 |
| 100 | 140 | 13 | DL | NBR | 22.2110.3272 |
| 100 | 150 | 12 | SL | NBR | 22.2100.1512 |
| 100 | 150 | 12 | DL | NBR | 22.2110.0386 |
| 100 | 150 | 13 | SL | NBR | 22.2100.4717 |
| 100 | 150 | 13 | SL | FKM | 22.2200.9992 |
| 100 | 150 | 13 | DL | NBR | 22.2110.0700 |
| 100 | 150 | 15 | DL | NBR | 22.2110.1500 |
| 100 | 160 | 14 | DL | NBR | 22.2110.0696 |
| 100 | 180 | 12 | SL | NBR | 22.2100.1646 |
| 100 | 180 | 12 | DL | NBR | 22.2110.0469 |
| 100 | 190 | 15 | DL | NBR | 22.2110.0395 |
| 104 | 120 | 13 | SL | FKM | 22.2200.0104 |
| 104 | 125 | 10 | SL | NBR | 22.2100.5218 |
| 105 | 120 | 11 | AEX DL | NBR | 22.2140.0105 |
| 105 | 120 | 13 | AEX SL | NBR | 22.2300.1012 |
| 105 | 125 | 13 | T2 SL | NBR | 22.2350.1051 |
| 105 | 130 | 13 | AEX DL | NBR | 22.2140.1056 |
| 105 | 130 | 13 | T2 SL | NBR | 22.2350.0105 |
| 105 | 120 | 8 | DL | NBR | 22.2110.1208 |
| 105 | 122 | 13 | SL | NBR | 22.2100.0490 |
| 105 | 125 | 10 | SL | NBR | 22.2100.0105 |
| 105 | 125 | 13 | SL | FKM | 22.2200.0105 |
| 105 | 125 | 13 | DL | NBR | 22.2110.2194 |
| 105 | 125 | 13 | DL | FKM | 22.2210.1052 |
| 105 | 127 | 10 | DL | NBR | 22.2110.1270 |
| 105 | 130 | 12 | SL | NBR | 22.2100.1051 |
| 105 | 130 | 12 | SL | FKM | 22.2200.1051 |
| 105 | 130 | 12 | DL | NBR | 22.2110.1053 |
| 105 | 130 | 12 | DL | FKM | 22.2210.8795 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|-----|-----|------|--------|----------|---------------------|
| 105 | 130 | 13 | SL | NBR | 22.2100.1052 |
| 105 | 130 | 13 | DL | NBR | 22.2110.1051 |
| 105 | 130 | 13 | DL | FKM | 22.2210.0452 |
| 105 | 130 | 15 | SL | NBR | 22.2100.0106 |
| 105 | 130 | 15 | SL | FKM | 22.2200.0106 |
| 105 | 135 | 13 | DL | NBR | 22.2110.0489 |
| 105 | 140 | 12 | SL | NBR | 22.2100.1054 |
| 105 | 140 | 12 | SL | FKM | 22.2200.1014 |
| 105 | 140 | 12 | DL | NBR | 22.2110.1209 |
| 105 | 140 | 12 | DL | FKM | 22.2210.1014 |
| 105 | 140 | 13 | SL | NBR | 22.2100.5484 |
| 105 | 140 | 13 | SL | FKM | 22.2200.1040 |
| 105 | 140 | 13 | DL | NBR | 22.2110.8894 |
| 105 | 145 | 15 | DL | NBR | 22.2110.1455 |
| 105 | 150 | 15 | SL | NBR | 22.2100.0894 |
| 105 | 150 | 15 | DL | NBR | 22.2110.1050 |
| 105 | 160 | 12 | DL | NBR | 22.2110.0392 |
| 105 | 160 | 12 | DL | FKM | 22.2210.0161 |
| 108 | 130 | 13 | T2 SL | NBR | 22.2350.0108 |
| 108 | 130 | 12 | SL | NBR | 22.2100.1083 |
| 110 | 128 | 9 | AEX SL | NBR | 22.2300.1121 |
| 110 | 130 | 13 | AEX SL | NBR | 22.2300.1101 |
| 110 | 130 | 13 | T2 SL | NBR | 22.2350.0111 |
| 110 | 140 | 12 | AEX SL | NBR | 22.2300.4587 |
| 110 | 140 | 13 | AEX DL | NBR | 22.2140.1114 |
| 110 | 140 | 13 | T2 SL | NBR | 22.2350.1101 |
| 110 | 160 | 16 | T2 DL | NBR | 22.2354.0066 |
| 110 | 125 | 9,5 | DL | NBR | 22.2110.1259 |
| 110 | 125 | 12 | SL | NBR | 22.2100.0110 |
| 110 | 128 | 9 | SL | FKM | 22.2200.0076 |
| 110 | 130 | 8 | SL | NBR | 22.2100.0130 |
| 110 | 130 | 8 | SL | FKM | 22.2200.0109 |
| 110 | 130 | 10 | DL | NBR | 22.2110.1103 |
| 110 | 130 | 12 | SL | NBR | 22.2100.1113 |
| 110 | 130 | 12 | SL | FKM | 22.2200.1113 |
| 110 | 130 | 12 | DL | NBR | 22.2110.1101 |
| 110 | 130 | 12 | DL | FKM | 22.2210.0110 |
| 110 | 130 | 13 | SL | NBR | 22.2100.1101 |
| 110 | 130 | 13 | SL | FKM | 22.2200.1111 |
| 110 | 130 | 13 | DL | NBR | 22.2110.1100 |
| 110 | 130 | 13 | DL | FKM | 22.2210.1101 |
| 110 | 130 | 14,5 | SL | FKM | 22.2200.0110 |
| 110 | 130 | 15 | DL | NBR | 22.2110.1102 |
| 110 | 135 | 12 | SL | NBR | 22.2100.1100 |
| 110 | 135 | 13 | SL | NBR | 22.2100.6200 |
| 110 | 135 | 13 | SL | FKM | 22.2200.0135 |

| ID | OD | H | Type | Material | Item no. |
|-----|-----|----|--------|----------|---------------------|
| 110 | 135 | 13 | DL | NBR | 22.2110.2656 |
| 110 | 140 | 10 | SL | NBR | 22.2100.2145 |
| 110 | 140 | 12 | SL | NBR | 22.2100.1114 |
| 110 | 140 | 12 | SL | FKM | 22.2200.1114 |
| 110 | 140 | 12 | DL | NBR | 22.2110.1114 |
| 110 | 140 | 12 | DL | FKM | 22.2210.4785 |
| 110 | 140 | 13 | SL | NBR | 22.2100.1104 |
| 110 | 140 | 13 | SL | FKM | 22.2200.1104 |
| 110 | 140 | 13 | DL | NBR | 22.2110.1140 |
| 110 | 140 | 14 | SL | NBR | 22.2100.3247 |
| 110 | 140 | 14 | DL | NBR | 22.2110.1105 |
| 110 | 140 | 15 | DL | NBR | 22.2110.1115 |
| 110 | 140 | 15 | DL | FKM | 22.2210.0191 |
| 110 | 145 | 13 | SL | NBR | 22.2100.0712 |
| 110 | 145 | 13 | SL | FKM | 22.2200.3131 |
| 110 | 145 | 15 | DL | NBR | 22.2110.1145 |
| 110 | 150 | 13 | SL | NBR | 22.2100.1102 |
| 110 | 150 | 13 | DL | NBR | 22.2110.2020 |
| 110 | 150 | 15 | SL | NBR | 22.2100.9090 |
| 110 | 150 | 15 | SL | FKM | 22.2200.1115 |
| 110 | 159 | 14 | SL | NBR | 22.2100.0159 |
| 110 | 160 | 12 | DL | NBR | 22.2110.0411 |
| 110 | 160 | 13 | DL | NBR | 22.2110.1110 |
| 110 | 170 | 12 | DL | NBR | 22.2110.1170 |
| 110 | 170 | 15 | DL | NBR | 22.2110.0397 |
| 110 | 200 | 13 | DL | NBR | 22.2110.1503 |
| 112 | 140 | 13 | T2 SL | NBR | 22.2350.0112 |
| 112 | 140 | 13 | SL | NBR | 22.2100.1124 |
| 112 | 140 | 13 | DL | FKM | 22.2210.1121 |
| 114 | 126 | 6 | DL | NBR | 22.2110.0244 |
| 114 | 140 | 13 | SL | NBR | 22.2100.0114 |
| 114 | 140 | 13 | SL | FKM | 22.2200.1141 |
| 115 | 140 | 12 | AEX SL | NBR | 22.2300.1114 |
| 115 | 140 | 13 | AEX DL | NBR | 22.2140.1151 |
| 115 | 130 | 12 | SL | NBR | 22.2100.1112 |
| 115 | 130 | 12 | SL | FKM | 22.2200.1151 |
| 115 | 130 | 13 | SL | NBR | 22.2100.0250 |
| 115 | 140 | 10 | SL | NBR | 22.2100.0031 |
| 115 | 140 | 10 | SL | FKM | 22.2200.1154 |
| 115 | 140 | 12 | SL | NBR | 22.2100.1152 |
| 115 | 140 | 12 | SL | FKM | 22.2200.1112 |
| 115 | 140 | 12 | DL | NBR | 22.2110.1647 |
| 115 | 140 | 12 | DL | FKM | 22.2210.1151 |
| 115 | 140 | 13 | SL | NBR | 22.2100.1151 |
| 115 | 140 | 13 | DL | NBR | 22.2110.1153 |
| 115 | 145 | 14 | SL | NBR | 22.2100.1156 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. | ID | OD | H | Type | Material | Item no. |
|-----|-----|----|--------|----------|---------------------|-----|-----|----|--------|----------|---------------------|
| 115 | 145 | 14 | DL | NBR | 22.2110.1150 | 120 | 155 | 15 | DL | NBR | 22.2110.0212 |
| 115 | 145 | 15 | SL | NBR | 22.2100.1515 | 120 | 155 | 16 | DL | NBR | 22.2110.1206 |
| 115 | 150 | 12 | SL | NBR | 22.2100.0345 | 120 | 160 | 12 | SL | NBR | 22.2100.0187 |
| 115 | 150 | 12 | SL | FKM | 22.2200.0414 | 120 | 160 | 12 | DL | NBR | 22.2110.1202 |
| 115 | 150 | 12 | DL | NBR | 22.2110.1157 | 120 | 160 | 12 | DL | FKM | 22.2210.1216 |
| 115 | 150 | 12 | DL | FKM | 22.2210.0115 | 120 | 160 | 13 | SL | NBR | 22.2100.9574 |
| 115 | 150 | 13 | DL | NBR | 22.2110.1159 | 120 | 160 | 13 | DL | NBR | 22.2110.0257 |
| 115 | 150 | 15 | DL | NBR | 22.2110.1155 | 120 | 160 | 14 | DL | NBR | 22.2110.2016 |
| 115 | 160 | 15 | SL | NBR | 22.2100.0496 | 120 | 160 | 15 | SL | NBR | 22.2100.7459 |
| 115 | 160 | 15 | SL | FKM | 22.2200.1156 | 120 | 160 | 15 | SL | FKM | 22.2200.1217 |
| 116 | 132 | 12 | AEX DL | NBR | 22.2140.0116 | 120 | 160 | 15 | DL | NBR | 22.2110.1216 |
| 118 | 140 | 13 | SL | NBR | 22.2100.1180 | 120 | 160 | 15 | DL | FKM | 22.2210.0015 |
| 118 | 140 | 13 | DL | NBR | 22.2110.1180 | 122 | 150 | 13 | SL | NBR | 22.2100.1221 |
| 120 | 140 | 13 | AEX DL | NBR | 22.2140.1201 | 122 | 150 | 15 | SL | NBR | 22.2100.0251 |
| 120 | 140 | 13 | T2 SL | NBR | 22.2350.1214 | 125 | 150 | 12 | AEX SL | NBR | 22.2300.6884 |
| 120 | 150 | 12 | AEX DL | NBR | 22.2140.0250 | 125 | 150 | 13 | AEX DL | NBR | 22.2140.1503 |
| 120 | 150 | 13 | AEX SL | NBR | 22.2300.5248 | 125 | 150 | 13 | T2 SL | NBR | 22.2350.0125 |
| 120 | 150 | 13 | T2 SL | NBR | 22.2350.0150 | 125 | 150 | 15 | T2 SL | NBR | 22.2350.1251 |
| 120 | 150 | 15 | AEX SL | NBR | 22.2300.8598 | 125 | 160 | 15 | T2 SL | NBR | 22.2350.0121 |
| 120 | 160 | 12 | AEX SL | NBR | 22.2300.0160 | 125 | 140 | 10 | SL | NBR | 22.2100.0252 |
| 120 | 140 | 10 | SL | NBR | 22.2100.2121 | 125 | 140 | 10 | SL | FKM | 22.2200.1250 |
| 120 | 140 | 10 | SL | FKM | 22.2200.9674 | 125 | 143 | 13 | DL | NBR | 22.2110.1243 |
| 120 | 140 | 12 | SL | NBR | 22.2100.0018 | 125 | 150 | 12 | SL | NBR | 22.2100.0125 |
| 120 | 140 | 12 | DL | NBR | 22.2110.0120 | 125 | 150 | 12 | SL | FKM | 22.2200.1252 |
| 120 | 140 | 13 | SL | NBR | 22.2100.1200 | 125 | 150 | 12 | DL | NBR | 22.2110.0251 |
| 120 | 140 | 13 | SL | FKM | 22.2200.1214 | 125 | 150 | 12 | DL | FKM | 22.2210.1251 |
| 120 | 140 | 13 | DL | NBR | 22.2110.1200 | 125 | 150 | 13 | SL | NBR | 22.2100.8254 |
| 120 | 140 | 13 | DL | FKM | 22.2210.1214 | 125 | 150 | 13 | DL | NBR | 22.2110.2521 |
| 120 | 145 | 12 | SL | NBR | 22.2100.5426 | 125 | 150 | 14 | SL | NBR | 22.2100.0154 |
| 120 | 145 | 12 | DL | NBR | 22.2110.5246 | 125 | 150 | 14 | DL | NBR | 22.2110.0253 |
| 120 | 145 | 15 | DL | NBR | 22.2110.1215 | 125 | 150 | 15 | SL | NBR | 22.2100.0259 |
| 120 | 150 | 10 | SL | FKM | 22.2200.0071 | 125 | 150 | 15 | SL | FKM | 22.2200.1258 |
| 120 | 150 | 12 | SL | NBR | 22.2100.1215 | 125 | 155 | 12 | SL | NBR | 22.2100.1894 |
| 120 | 150 | 12 | SL | FKM | 22.2200.1215 | 125 | 155 | 12 | DL | NBR | 22.2110.1252 |
| 120 | 150 | 12 | DL | NBR | 22.2110.4798 | 125 | 155 | 12 | DL | FKM | 22.2210.0148 |
| 120 | 150 | 12 | DL | FKM | 22.2210.1215 | 125 | 155 | 15 | DL | NBR | 22.2110.1551 |
| 120 | 150 | 13 | SL | NBR | 22.2100.9854 | 125 | 160 | 12 | SL | NBR | 22.2100.2222 |
| 120 | 150 | 13 | SL | FKM | 22.2200.1218 | 125 | 160 | 12 | SL | FKM | 22.2200.1251 |
| 120 | 150 | 13 | DL | NBR | 22.2110.4445 | 125 | 160 | 12 | DL | NBR | 22.2110.0264 |
| 120 | 150 | 13 | DL | FKM | 22.2210.1218 | 125 | 160 | 12 | DL | FKM | 22.2210.1256 |
| 120 | 150 | 14 | DL | NBR | 22.2110.9877 | 125 | 160 | 13 | SL | NBR | 22.2100.1253 |
| 120 | 150 | 15 | SL | NBR | 22.2100.0120 | 125 | 160 | 15 | SL | NBR | 22.2100.1604 |
| 120 | 150 | 15 | SL | FKM | 22.2200.5858 | 125 | 160 | 15 | SL | FKM | 22.2200.3321 |
| 120 | 150 | 15 | DL | NBR | 22.2110.1201 | 125 | 160 | 15 | DL | NBR | 22.2110.1256 |
| 120 | 150 | 15 | DL | FKM | 22.2210.0120 | 127 | 150 | 13 | SL | NBR | 22.2100.6525 |
| 120 | 155 | 12 | DL | NBR | 22.2110.1255 | 128 | 150 | 13 | SL | FKM | 22.2200.8477 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|-----|-----|----|--------|----------|---------------------|
| 128 | 150 | 13 | DL | NBR | 22.2110.1280 |
| 130 | 150 | 10 | AEX DL | NBR | 22.2140.0002 |
| 130 | 150 | 13 | AEX DL | NBR | 22.2140.1315 |
| 130 | 150 | 14 | AEX DL | NBR | 22.2140.1314 |
| 130 | 155 | 10 | AEX SL | NBR | 22.2300.1355 |
| 130 | 155 | 10 | T2 SL | NBR | 22.2350.0135 |
| 130 | 160 | 12 | AEX SL | NBR | 22.2300.3454 |
| 130 | 160 | 12 | T2 SL | NBR | 22.2350.1316 |
| 130 | 160 | 13 | AEX DL | NBR | 22.2140.0003 |
| 130 | 160 | 15 | AEX SL | NBR | 22.2300.0002 |
| 130 | 140 | 10 | SL | NBR | 22.2100.1314 |
| 130 | 150 | 10 | SL | NBR | 22.2100.1315 |
| 130 | 150 | 10 | SL | FKM | 22.2200.1345 |
| 130 | 150 | 10 | DL | NBR | 22.2110.1310 |
| 130 | 150 | 12 | DL | NBR | 22.2110.1312 |
| 130 | 150 | 12 | DL | FKM | 22.2210.1301 |
| 130 | 160 | 12 | SL | NBR | 22.2100.1316 |
| 130 | 160 | 12 | SL | FKM | 22.2200.4978 |
| 130 | 160 | 12 | DL | NBR | 22.2110.5296 |
| 130 | 160 | 12 | DL | FKM | 22.2210.4978 |
| 130 | 160 | 13 | SL | NBR | 22.2100.1302 |
| 130 | 160 | 13 | SL | FKM | 22.2200.1316 |
| 130 | 160 | 13 | DL | NBR | 22.2110.8987 |
| 130 | 160 | 14 | DL | NBR | 22.2110.6524 |
| 130 | 160 | 15 | SL | NBR | 22.2100.1303 |
| 130 | 160 | 15 | SL | FKM | 22.2200.0130 |
| 130 | 160 | 15 | DL | NBR | 22.2110.1301 |
| 130 | 160 | 15 | DL | FKM | 22.2210.1316 |
| 130 | 165 | 13 | SL | NBR | 22.2100.1304 |
| 130 | 170 | 12 | SL | NBR | 22.2100.1317 |
| 130 | 170 | 12 | SL | FKM | 22.2200.3274 |
| 130 | 170 | 12 | DL | NBR | 22.2110.0137 |
| 130 | 170 | 12 | DL | FKM | 22.2210.1317 |
| 130 | 170 | 13 | SL | NBR | 22.2100.1313 |
| 130 | 170 | 13 | SL | FKM | 22.2200.8574 |
| 130 | 170 | 14 | DL | NBR | 22.2110.0169 |
| 130 | 170 | 15 | SL | NBR | 22.2100.4500 |
| 130 | 170 | 15 | SL | FKM | 22.2200.1564 |
| 130 | 182 | 16 | SL | NBR | 22.2100.0182 |
| 130 | 230 | 14 | SL | NBR | 22.2100.1308 |
| 130 | 230 | 14 | SL | FKM | 22.2200.0143 |
| 130 | 230 | 14 | DL | NBR | 22.2110.0300 |
| 132 | 160 | 13 | T2 SL | NBR | 22.2350.0132 |
| 132 | 150 | 13 | SL | NBR | 22.2100.0132 |
| 135 | 165 | 13 | T2 SL | NBR | 22.2350.1365 |
| 135 | 165 | 14 | AEX DL | NBR | 22.2140.0005 |

| ID | OD | H | Type | Material | Item no. |
|-----|-----|----|--------|----------|---------------------|
| 135 | 170 | 15 | AEX SL | NBR | 22.2300.1359 |
| 135 | 160 | 12 | SL | NBR | 22.2100.1359 |
| 135 | 160 | 12 | SL | FKM | 22.2200.1351 |
| 135 | 160 | 12 | DL | NBR | 22.2110.0301 |
| 135 | 160 | 12 | DL | FKM | 22.2210.1602 |
| 135 | 160 | 13 | SL | NBR | 22.2100.0300 |
| 135 | 160 | 13 | DL | NBR | 22.2110.0302 |
| 135 | 160 | 14 | SL | NBR | 22.2100.1356 |
| 135 | 160 | 15 | SL | NBR | 22.2100.1358 |
| 135 | 160 | 15 | DL | NBR | 22.2110.1356 |
| 135 | 160 | 15 | DL | FKM | 22.2210.0135 |
| 135 | 165 | 12 | SL | NBR | 22.2100.9666 |
| 135 | 165 | 12 | SL | FKM | 22.2200.4387 |
| 135 | 165 | 14 | DL | NBR | 22.2110.3004 |
| 135 | 165 | 15 | DL | NBR | 22.2110.1655 |
| 135 | 170 | 12 | SL | NBR | 22.2100.3004 |
| 135 | 170 | 12 | SL | FKM | 22.2200.1317 |
| 135 | 170 | 12 | DL | NBR | 22.2110.3005 |
| 135 | 170 | 12 | DL | FKM | 22.2210.1351 |
| 135 | 170 | 14 | DL | NBR | 22.2110.2004 |
| 135 | 170 | 15 | SL | NBR | 22.2100.1357 |
| 135 | 170 | 15 | DL | NBR | 22.2110.1357 |
| 135 | 180 | 15 | DL | NBR | 22.2110.0384 |
| 138 | 160 | 15 | SL | NBR | 22.2100.1381 |
| 138 | 160 | 15 | SL | FKM | 22.2200.1386 |
| 140 | 160 | 13 | AEX DL | NBR | 22.2140.0020 |
| 140 | 160 | 13 | T2 SL | NBR | 22.2350.1411 |
| 140 | 160 | 13 | T2 DL | NBR | 22.2354.0140 |
| 140 | 160 | 15 | T2 SL | NBR | 22.2350.1401 |
| 140 | 165 | 12 | T2 SL | NBR | 22.2350.1465 |
| 140 | 165 | 14 | AEX DL | NBR | 22.2140.1235 |
| 140 | 170 | 13 | T2 SL | NBR | 22.2350.1417 |
| 140 | 170 | 15 | T2 SL | NBR | 22.2350.0140 |
| 140 | 180 | 15 | T2 SL | NBR | 22.2350.1418 |
| 140 | 157 | 8 | DL | NBR | 22.2110.0247 |
| 140 | 160 | 10 | SL | NBR | 22.2100.1411 |
| 140 | 160 | 12 | SL | NBR | 22.2100.1416 |
| 140 | 160 | 12 | DL | NBR | 22.2110.1416 |
| 140 | 160 | 12 | DL | FKM | 22.2210.1614 |
| 140 | 160 | 13 | SL | NBR | 22.2100.5101 |
| 140 | 160 | 13 | DL | NBR | 22.2110.7854 |
| 140 | 160 | 15 | SL | NBR | 22.2100.5144 |
| 140 | 162 | 12 | DL | NBR | 22.2110.1462 |
| 140 | 165 | 10 | DL | NBR | 22.2110.0799 |
| 140 | 165 | 12 | SL | FKM | 22.2200.1401 |
| 140 | 165 | 12 | DL | NBR | 22.2110.0108 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. | ID | OD | H | Type | Material | Item no. |
|-----|-----|----|--------|----------|---------------------|--------|-------|------|--------|----------|---------------------|
| 140 | 165 | 15 | SL | NBR | 22.2100.1645 | 145 | 175 | 15 | SL | NBR | 22.2100.1451 |
| 140 | 170 | 12 | SL | NBR | 22.2100.1401 | 145 | 175 | 15 | SL | FKM | 22.2200.1414 |
| 140 | 170 | 12 | SL | FKM | 22.2200.1405 | 145 | 175 | 15 | DL | NBR | 22.2110.1457 |
| 140 | 170 | 12 | DL | NBR | 22.2110.0140 | 145 | 175 | 15 | DL | FKM | 22.2210.1414 |
| 140 | 170 | 12 | DL | FKM | 22.2210.1417 | 145 | 180 | 12 | SL | NBR | 22.2100.1809 |
| 140 | 170 | 13 | SL | NBR | 22.2100.6002 | 145 | 180 | 12 | DL | NBR | 22.2110.5688 |
| 140 | 170 | 13 | DL | NBR | 22.2110.6001 | 145 | 180 | 13 | SL | NBR | 22.2100.1813 |
| 140 | 170 | 13 | DL | FKM | 22.2210.8449 | 145 | 180 | 14 | SL | NBR | 22.2100.1414 |
| 140 | 170 | 14 | DL | NBR | 22.2110.1401 | 145 | 180 | 15 | SL | NBR | 22.2100.1814 |
| 140 | 170 | 15 | SL | NBR | 22.2100.1403 | 145 | 180 | 15 | SL | FKM | 22.2200.1418 |
| 140 | 170 | 15 | SL | FKM | 22.2200.1417 | 146,05 | 171,5 | 14 | T2 DL | NBR | 22.2354.0004 |
| 140 | 170 | 15 | DL | NBR | 22.2110.6008 | 148 | 170 | 14,5 | T2 DL | NBR | 22.2354.0148 |
| 140 | 170 | 15 | DL | FKM | 22.2210.1415 | 148 | 170 | 15 | T2 SL | NBR | 22.2350.0148 |
| 140 | 170 | 16 | DL | NBR | 22.2110.1470 | 148 | 170 | 14 | DL | NBR | 22.2110.1484 |
| 140 | 175 | 15 | DL | NBR | 22.2110.1475 | 148 | 170 | 14,5 | DL | NBR | 22.2110.1417 |
| 140 | 180 | 12 | SL | NBR | 22.2100.1402 | 150 | 170 | 12 | AEX DL | NBR | 22.2140.0170 |
| 140 | 180 | 12 | SL | FKM | 22.2200.0333 | 150 | 170 | 15 | T2 SL | NBR | 22.2350.1501 |
| 140 | 180 | 12 | DL | NBR | 22.2110.5291 | 150 | 180 | 13 | AEX DL | NBR | 22.2140.1501 |
| 140 | 180 | 13 | SL | NBR | 22.2100.5000 | 150 | 180 | 13 | T2 SL | NBR | 22.2350.1502 |
| 140 | 180 | 13 | SL | FKM | 22.2200.4444 | 150 | 180 | 15 | AEX SL | NBR | 22.2300.1508 |
| 140 | 180 | 15 | SL | NBR | 22.2100.1804 | 150 | 180 | 15 | T2 SL | NBR | 22.2350.1518 |
| 140 | 180 | 15 | SL | FKM | 22.2200.1416 | 150 | 190 | 15 | T2 SL | NBR | 22.2350.1519 |
| 140 | 180 | 15 | DL | NBR | 22.2110.9171 | 150 | 190 | 16 | AEX SL | NBR | 22.2300.1519 |
| 140 | 180 | 15 | DL | FKM | 22.2210.1416 | 150 | 170 | 12 | SL | NBR | 22.2100.0151 |
| 140 | 190 | 15 | DL | NBR | 22.2110.1419 | 150 | 170 | 13 | SL | NBR | 22.2100.4815 |
| 140 | 250 | 15 | SL | FKM | 22.2200.0145 | 150 | 170 | 15 | SL | NBR | 22.2100.9537 |
| 144 | 160 | 12 | SL | NBR | 22.2100.1420 | 150 | 170 | 15 | DL | NBR | 22.2110.1569 |
| 144 | 160 | 12 | SL | FKM | 22.2200.7474 | 150 | 180 | 12 | SL | NBR | 22.2100.0180 |
| 144 | 160 | 12 | DL | NBR | 22.2110.1729 | 150 | 180 | 12 | SL | FKM | 22.2200.7878 |
| 145 | 170 | 13 | AEX DL | NBR | 22.2140.0154 | 150 | 180 | 12 | DL | NBR | 22.2110.0883 |
| 145 | 170 | 13 | T2 SL | NBR | 22.2350.0014 | 150 | 180 | 13 | SL | NBR | 22.2100.1502 |
| 145 | 170 | 15 | T2 SL | NBR | 22.2350.1452 | 150 | 180 | 13 | DL | NBR | 22.2110.5466 |
| 145 | 175 | 13 | T2 SL | NBR | 22.2350.1451 | 150 | 180 | 13 | DL | FKM | 22.2210.1501 |
| 145 | 180 | 13 | T2 SL | NBR | 22.2350.1413 | 150 | 180 | 14 | DL | NBR | 22.2110.1428 |
| 145 | 180 | 15 | AEX DL | NBR | 22.2140.1418 | 150 | 180 | 15 | SL | NBR | 22.2100.1518 |
| 145 | 165 | 13 | SL | NBR | 22.2100.1459 | 150 | 180 | 15 | SL | FKM | 22.2200.1518 |
| 145 | 165 | 13 | SL | FKM | 22.2200.5487 | 150 | 180 | 15 | DL | NBR | 22.2110.3716 |
| 145 | 165 | 15 | SL | NBR | 22.2100.1652 | 150 | 180 | 15 | DL | FKM | 22.2210.1518 |
| 145 | 167 | 13 | DL | NBR | 22.2110.0876 | 150 | 190 | 15 | DL | NBR | 22.2110.3001 |
| 145 | 170 | 12 | SL | NBR | 22.2100.5198 | 150 | 200 | 15 | SL | NBR | 22.2100.1504 |
| 145 | 170 | 12 | DL | NBR | 22.2110.5198 | 155 | 180 | 14 | AEX DL | NBR | 22.2140.1588 |
| 145 | 170 | 15 | SL | NBR | 22.2100.6321 | 155 | 180 | 15 | AEX DL | NBR | 22.2140.7887 |
| 145 | 170 | 15 | SL | FKM | 22.2200.6656 | 155 | 180 | 15 | T2 SL | NBR | 22.2350.0155 |
| 145 | 175 | 12 | SL | NBR | 22.2100.1752 | 155 | 190 | 15 | AEX SL | NBR | 22.2300.1551 |
| 145 | 175 | 13 | SL | NBR | 22.2100.1457 | 155 | 174 | 12 | SL | NBR | 22.2100.3917 |
| 145 | 175 | 14 | DL | NBR | 22.2110.3648 | 155 | 180 | 12 | SL | NBR | 22.2100.0651 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|--------|--------|------|--------|----------|---------------------|
| 155 | 180 | 14 | SL | NBR | 22.2100.5552 |
| 155 | 180 | 15 | SL | NBR | 22.2100.1551 |
| 155 | 180 | 15 | SL | FKM | 22.2200.6444 |
| 155 | 180 | 15 | DL | NBR | 22.2110.4921 |
| 155 | 180 | 15 | DL | FKM | 22.2210.0129 |
| 155 | 185 | 15 | DL | NBR | 22.2110.1585 |
| 155 | 190 | 15 | SL | NBR | 22.2100.1559 |
| 155 | 190 | 15 | DL | NBR | 22.2110.5648 |
| 157,16 | 190,48 | 6,35 | AEX SL | NBR | 22.2300.1571 |
| 158 | 180 | 15 | SL | NBR | 22.2100.1581 |
| 158 | 180 | 15 | SL | FKM | 22.2200.5648 |
| 160 | 180 | 10 | AEX SL | NBR | 22.2300.1608 |
| 160 | 180 | 15 | T2 SL | NBR | 22.2350.1801 |
| 160 | 185 | 10 | AEX DL | NBR | 22.2140.0160 |
| 160 | 190 | 13 | AEX DL | NBR | 22.2140.0190 |
| 160 | 190 | 13 | T2 SL | NBR | 22.2350.1601 |
| 160 | 190 | 15 | AEX SL | NBR | 22.2300.1903 |
| 160 | 190 | 15 | T2 SL | NBR | 22.2350.1619 |
| 160 | 200 | 15 | T2 SL | NBR | 22.2350.1652 |
| 160 | 180 | 10 | DL | NBR | 22.2110.1618 |
| 160 | 180 | 12 | DL | NBR | 22.2110.1608 |
| 160 | 180 | 13 | DL | NBR | 22.2110.0941 |
| 160 | 180 | 15 | SL | NBR | 22.2100.1601 |
| 160 | 180 | 15 | SL | FKM | 22.2200.1602 |
| 160 | 180 | 15 | DL | NBR | 22.2110.1861 |
| 160 | 185 | 10 | SL | NBR | 22.2100.1605 |
| 160 | 185 | 10 | SL | FKM | 22.2200.9347 |
| 160 | 185 | 10 | DL | NBR | 22.2110.3791 |
| 160 | 185 | 13 | DL | NBR | 22.2110.1685 |
| 160 | 185 | 15 | SL | FKM | 22.2200.9578 |
| 160 | 185 | 15 | DL | NBR | 22.2110.0231 |
| 160 | 190 | 8 | DL | FKM | 22.2210.0160 |
| 160 | 190 | 12 | DL | NBR | 22.2110.1602 |
| 160 | 190 | 13 | SL | NBR | 22.2100.9463 |
| 160 | 190 | 13 | DL | NBR | 22.2110.3416 |
| 160 | 190 | 15 | SL | NBR | 22.2100.1603 |
| 160 | 190 | 15 | SL | FKM | 22.2200.1601 |
| 160 | 190 | 15 | DL | NBR | 22.2110.0160 |
| 160 | 190 | 15 | DL | FKM | 22.2210.1619 |
| 160 | 195 | 15 | DL | NBR | 22.2110.1695 |
| 160 | 200 | 12 | SL | NBR | 22.2100.1010 |
| 160 | 200 | 12 | SL | FKM | 22.2200.2474 |
| 160 | 200 | 12 | DL | NBR | 22.2110.9631 |
| 160 | 200 | 15 | SL | FKM | 22.2200.3746 |
| 160 | 200 | 15 | DL | NBR | 22.2110.1620 |
| 160 | 290 | 18 | DL | NBR | 22.2110.0366 |

| ID | OD | H | Type | Material | Item no. |
|-----|-----|----|--------|----------|---------------------|
| 162 | 190 | 12 | SL | NBR | 22.2100.1746 |
| 165 | 190 | 13 | AEX DL | NBR | 22.2140.1625 |
| 165 | 190 | 13 | T2 SL | NBR | 22.2350.4844 |
| 165 | 190 | 15 | T2 SL | NBR | 22.2350.0165 |
| 165 | 205 | 16 | T2 DL | NBR | 22.2354.0165 |
| 165 | 190 | 13 | SL | NBR | 22.2100.3914 |
| 165 | 190 | 13 | SL | FKM | 22.2200.1659 |
| 165 | 190 | 13 | DL | NBR | 22.2110.9632 |
| 165 | 190 | 15 | DL | NBR | 22.2110.3461 |
| 165 | 195 | 15 | DL | NBR | 22.2110.1651 |
| 165 | 195 | 16 | DL | NBR | 22.2110.1656 |
| 165 | 200 | 15 | SL | FKM | 22.2200.2015 |
| 165 | 200 | 15 | DL | NBR | 22.2110.1652 |
| 168 | 200 | 15 | T2 SL | NBR | 22.2350.0168 |
| 170 | 200 | 13 | T2 SL | NBR | 22.2350.1702 |
| 170 | 200 | 15 | AEX DL | NBR | 22.2140.0040 |
| 170 | 200 | 15 | T2 SL | NBR | 22.2350.1720 |
| 170 | 190 | 13 | DL | NBR | 22.2110.0691 |
| 170 | 200 | 12 | SL | NBR | 22.2100.0170 |
| 170 | 200 | 12 | SL | FKM | 22.2200.1777 |
| 170 | 200 | 12 | DL | NBR | 22.2110.2001 |
| 170 | 200 | 15 | SL | NBR | 22.2100.0865 |
| 170 | 200 | 15 | SL | NBR | 22.2100.1702 |
| 170 | 200 | 15 | SL | FKM | 22.2200.1703 |
| 170 | 200 | 15 | DL | NBR | 22.2110.1702 |
| 170 | 200 | 15 | DL | FKM | 22.2210.1702 |
| 170 | 200 | 16 | DL | NBR | 22.2110.0498 |
| 170 | 210 | 15 | DL | NBR | 22.2110.1715 |
| 170 | 210 | 16 | SL | NBR | 22.2100.3615 |
| 170 | 220 | 15 | SL | NBR | 22.2100.9546 |
| 174 | 191 | 9 | DL | NBR | 22.2110.0248 |
| 175 | 200 | 15 | T2 SL | NBR | 22.2350.1752 |
| 175 | 205 | 15 | AEX SL | FKM | 22.2230.0175 |
| 175 | 200 | 15 | SL | NBR | 22.2100.5638 |
| 175 | 200 | 15 | SL | FKM | 22.2200.1752 |
| 175 | 200 | 15 | DL | NBR | 22.2110.1653 |
| 175 | 205 | 15 | SL | NBR | 22.2100.1741 |
| 175 | 205 | 15 | DL | NBR | 22.2110.4961 |
| 175 | 210 | 14 | SL | NBR | 22.2100.1714 |
| 175 | 210 | 15 | SL | NBR | 22.2100.0175 |
| 178 | 208 | 15 | SL | NBR | 22.2100.1782 |
| 180 | 200 | 15 | T2 SL | NBR | 22.2350.1802 |
| 180 | 200 | 16 | AEX DL | NBR | 22.2140.0820 |
| 180 | 210 | 15 | AEX SL | NBR | 22.2300.1821 |
| 180 | 210 | 15 | T2 SL | NBR | 22.2350.1821 |
| 180 | 215 | 16 | T2 SL | NBR | 22.2350.0216 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|-----|-----|----|--------|----------|---------------------|
| 180 | 220 | 16 | T2 SL | NBR | 22.2350.0180 |
| 180 | 200 | 12 | DL | NBR | 22.2110.0844 |
| 180 | 200 | 13 | SL | NBR | 22.2100.1820 |
| 180 | 200 | 13 | SL | FKM | 22.2200.1820 |
| 180 | 200 | 15 | DL | NBR | 22.2110.1802 |
| 180 | 200 | 16 | DL | FKM | 22.2210.1820 |
| 180 | 210 | 10 | DL | NBR | 22.2110.1821 |
| 180 | 210 | 14 | DL | NBR | 22.2110.1814 |
| 180 | 210 | 15 | SL | NBR | 22.2100.1802 |
| 180 | 210 | 15 | SL | FKM | 22.2200.1802 |
| 180 | 210 | 15 | DL | NBR | 22.2110.1801 |
| 180 | 210 | 15 | DL | FKM | 22.2210.1821 |
| 180 | 210 | 16 | DL | NBR | 22.2110.1816 |
| 180 | 215 | 15 | DL | NBR | 22.2110.1815 |
| 180 | 215 | 16 | SL | NBR | 22.2100.2015 |
| 180 | 215 | 16 | DL | NBR | 22.2110.1803 |
| 180 | 220 | 13 | DL | NBR | 22.2110.1822 |
| 180 | 220 | 15 | SL | NBR | 22.2100.1822 |
| 180 | 220 | 15 | SL | FKM | 22.2200.1822 |
| 180 | 220 | 15 | DL | NBR | 22.2110.1823 |
| 180 | 220 | 15 | DL | FKM | 22.2210.1823 |
| 180 | 220 | 16 | SL | NBR | 22.2100.9741 |
| 180 | 220 | 16 | DL | NBR | 22.2110.0180 |
| 185 | 215 | 15 | T2 SL | NBR | 22.2350.1852 |
| 185 | 210 | 13 | SL | NBR | 22.2100.1852 |
| 185 | 210 | 13 | SL | FKM | 22.2200.9998 |
| 185 | 210 | 13 | DL | NBR | 22.2110.1850 |
| 185 | 210 | 13 | DL | FKM | 22.2210.1852 |
| 185 | 210 | 15 | DL | NBR | 22.2110.1851 |
| 185 | 215 | 16 | SL | NBR | 22.2100.1816 |
| 190 | 215 | 16 | T2 SL | NBR | 22.2350.0190 |
| 190 | 220 | 15 | AEX SL | NBR | 22.2300.0220 |
| 190 | 220 | 15 | T2 SL | NBR | 22.2350.0413 |
| 190 | 220 | 16 | T2 SL | NBR | 22.2350.1902 |
| 190 | 230 | 15 | AEX SL | NBR | 22.2300.1923 |
| 190 | 230 | 16 | T2 SL | NBR | 22.2350.1901 |
| 190 | 215 | 16 | SL | NBR | 22.2100.0730 |
| 190 | 215 | 16 | DL | FKM | 22.2210.0190 |
| 190 | 220 | 12 | SL | NBR | 22.2100.1900 |
| 190 | 220 | 12 | DL | NBR | 22.2110.2102 |
| 190 | 220 | 15 | SL | NBR | 22.2100.1922 |
| 190 | 220 | 15 | SL | FKM | 22.2200.1922 |
| 190 | 220 | 15 | DL | NBR | 22.2110.1901 |
| 190 | 220 | 15 | DL | FKM | 22.2210.1922 |
| 190 | 220 | 16 | SL | NBR | 22.2100.1902 |
| 190 | 225 | 16 | DL | NBR | 22.2110.1916 |

| ID | OD | H | Type | Material | Item no. |
|-----|-----|----|--------|----------|---------------------|
| 190 | 230 | 15 | DL | NBR | 22.2110.1923 |
| 190 | 230 | 16 | DL | NBR | 22.2110.0190 |
| 190 | 240 | 15 | DL | NBR | 22.2110.1902 |
| 195 | 220 | 16 | T2 SL | NBR | 22.2350.0195 |
| 195 | 230 | 12 | SL | NBR | 22.2100.0195 |
| 195 | 230 | 16 | DL | NBR | 22.2110.3016 |
| 195 | 230 | 17 | SL | NBR | 22.2100.1952 |
| 198 | 230 | 15 | DL | NBR | 22.2110.1985 |
| 200 | 230 | 15 | AEX DL | NBR | 22.2140.5002 |
| 200 | 230 | 15 | T2 SL | NBR | 22.2350.0200 |
| 200 | 240 | 16 | T2 SL | NBR | 22.2350.2002 |
| 200 | 221 | 9 | DL | NBR | 22.2110.0233 |
| 200 | 221 | 9 | DL | FKM | 22.2210.2002 |
| 200 | 225 | 15 | SL | NBR | 22.2100.2003 |
| 200 | 225 | 15 | DL | NBR | 22.2110.0163 |
| 200 | 230 | 13 | SL | NBR | 22.2100.8744 |
| 200 | 230 | 15 | SL | NBR | 22.2100.2002 |
| 200 | 230 | 15 | SL | FKM | 22.2200.2002 |
| 200 | 230 | 15 | DL | NBR | 22.2110.2315 |
| 200 | 230 | 15 | DL | FKM | 22.2210.0200 |
| 200 | 230 | 16 | SL | NBR | 22.2100.0202 |
| 200 | 235 | 16 | SL | NBR | 22.2100.2021 |
| 200 | 235 | 18 | DL | NBR | 22.2110.2008 |
| 200 | 240 | 20 | DL | NBR | 22.2110.2024 |
| 200 | 250 | 15 | SL | NBR | 22.2100.0571 |
| 205 | 230 | 16 | T2 SL | NBR | 22.2350.0205 |
| 205 | 230 | 15 | SL | NBR | 22.2100.0056 |
| 205 | 230 | 16 | SL | NBR | 22.2100.0016 |
| 205 | 250 | 16 | SL | NBR | 22.2100.9410 |
| 210 | 240 | 15 | T2 SL | NBR | 22.2350.0210 |
| 210 | 250 | 16 | T2 SL | NBR | 22.2350.2102 |
| 210 | 240 | 15 | SL | NBR | 22.2100.2124 |
| 210 | 240 | 15 | SL | FKM | 22.2200.2102 |
| 210 | 240 | 15 | DL | NBR | 22.2110.2124 |
| 210 | 240 | 15 | DL | FKM | 22.2210.2124 |
| 210 | 250 | 15 | SL | NBR | 22.2100.2125 |
| 210 | 250 | 15 | DL | NBR | 22.2110.2125 |
| 210 | 250 | 16 | SL | NBR | 22.2100.2126 |
| 210 | 290 | 20 | DL | FKM | 22.2210.2102 |
| 212 | 245 | 16 | SL | NBR | 22.2100.2897 |
| 215 | 240 | 12 | SL | NBR | 22.2100.2150 |
| 215 | 240 | 12 | SL | FKM | 22.2200.0086 |
| 215 | 240 | 12 | DL | NBR | 22.2110.0240 |
| 215 | 240 | 15 | SL | NBR | 22.2100.2152 |
| 215 | 245 | 15 | DL | NBR | 22.2110.2155 |
| 215 | 250 | 16 | SL | NBR | 22.2100.8877 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|-----|-----|----|--------|----------|---------------------|
| 220 | 250 | 15 | AEX SL | NBR | 22.2300.2515 |
| 220 | 250 | 15 | SL | NBR | 22.2100.2202 |
| 220 | 250 | 15 | SL | FKM | 22.2200.2202 |
| 220 | 250 | 15 | DL | NBR | 22.2110.2225 |
| 220 | 250 | 16 | SL | NBR | 22.2100.2216 |
| 220 | 260 | 15 | SL | NBR | 22.2100.2215 |
| 220 | 260 | 16 | SL | NBR | 22.2100.2284 |
| 220 | 275 | 23 | DL | NBR | 22.2110.2203 |
| 225 | 250 | 15 | SL | NBR | 22.2100.4845 |
| 225 | 260 | 15 | DL | NBR | 22.2110.2226 |
| 230 | 250 | 15 | SL | NBR | 22.2100.2277 |
| 230 | 251 | 10 | DL | NBR | 22.2110.0249 |
| 230 | 255 | 15 | SL | NBR | 22.2100.2288 |
| 230 | 260 | 15 | SL | NBR | 22.2100.2300 |
| 230 | 260 | 15 | SL | FKM | 22.2200.2326 |
| 230 | 260 | 15 | DL | NBR | 22.2110.2302 |
| 230 | 260 | 15 | DL | FKM | 22.2210.2326 |
| 230 | 270 | 15 | DL | NBR | 22.2110.2327 |
| 230 | 280 | 15 | SL | NBR | 22.2100.8889 |
| 235 | 270 | 16 | T2 SL | NBR | 22.2350.0235 |
| 235 | 265 | 15 | SL | NBR | 22.2100.0635 |
| 240 | 270 | 15 | T2 SL | NBR | 22.2350.0240 |
| 240 | 265 | 15 | DL | NBR | 22.2110.2402 |
| 240 | 270 | 15 | SL | NBR | 22.2100.2402 |
| 240 | 270 | 15 | SL | FKM | 22.2200.0240 |
| 240 | 270 | 15 | DL | NBR | 22.2110.2400 |
| 240 | 270 | 15 | DL | FKM | 22.2210.2402 |
| 240 | 280 | 15 | SL | NBR | 22.2100.2403 |
| 240 | 280 | 16 | SL | NBR | 22.2100.0890 |
| 240 | 280 | 18 | SL | FKM | 22.2200.2402 |
| 240 | 280 | 19 | SL | NBR | 22.2100.8882 |
| 245 | 270 | 16 | AEX SL | NBR | 22.2300.2452 |
| 250 | 280 | 15 | T2 SL | NBR | 22.2350.0250 |
| 250 | 290 | 16 | T2 SL | NBR | 22.2350.2516 |
| 250 | 280 | 15 | SL | NBR | 22.2100.2502 |
| 250 | 280 | 15 | SL | FKM | 22.2200.2529 |
| 250 | 280 | 15 | DL | NBR | 22.2110.2581 |
| 250 | 280 | 15 | DL | FKM | 22.2210.0201 |
| 250 | 280 | 16 | SL | NBR | 22.2100.2501 |
| 250 | 280 | 16 | DL | NBR | 22.2110.2528 |
| 250 | 290 | 15 | DL | NBR | 22.2110.3331 |
| 260 | 300 | 20 | T2 SL | NBR | 22.2350.2603 |
| 260 | 281 | 11 | DL | NBR | 22.2110.0252 |
| 260 | 290 | 15 | DL | NBR | 22.2110.0665 |
| 260 | 290 | 16 | SL | NBR | 22.2100.2602 |
| 260 | 300 | 20 | SL | NBR | 22.2100.2630 |

| ID | OD | H | Type | Material | Item no. |
|-----|-----|----|--------|----------|---------------------|
| 260 | 300 | 20 | SL | FKM | 22.2200.2630 |
| 260 | 300 | 20 | DL | NBR | 22.2110.2630 |
| 260 | 300 | 20 | DL | FKM | 22.2210.0029 |
| 265 | 290 | 16 | SL | NBR | 22.2100.2229 |
| 265 | 290 | 16 | DL | NBR | 22.2110.2659 |
| 265 | 294 | 12 | DL | FKM | 22.2210.0265 |
| 270 | 310 | 16 | AEX DL | NBR | 22.2140.2703 |
| 270 | 310 | 16 | SL | NBR | 22.2100.2703 |
| 275 | 310 | 16 | T2 SL | NBR | 22.2350.2753 |
| 280 | 310 | 16 | T2 SL | NBR | 22.2350.0280 |
| 280 | 310 | 15 | SL | NBR | 22.2100.2801 |
| 280 | 310 | 15 | SL | FKM | 22.2200.2831 |
| 280 | 310 | 15 | DL | FKM | 22.2210.0106 |
| 280 | 310 | 16 | DL | NBR | 22.2110.2831 |
| 280 | 320 | 16 | DL | NBR | 22.2110.0280 |
| 280 | 320 | 20 | SL | NBR | 22.2100.0280 |
| 285 | 310 | 16 | T2 SL | NBR | 22.2350.0310 |
| 290 | 330 | 18 | DL | NBR | 22.2110.2903 |
| 300 | 332 | 16 | DL | NBR | 22.2110.9995 |
| 300 | 340 | 16 | SL | NBR | 22.2100.3401 |
| 300 | 340 | 20 | SL | NBR | 22.2100.3002 |
| 300 | 340 | 20 | DL | NBR | 22.2110.0847 |
| 300 | 340 | 20 | DL | FKM | 22.2210.3034 |
| 320 | 360 | 20 | AEX SL | NBR | 22.2300.0320 |
| 320 | 360 | 20 | T2 SL | NBR | 22.2350.3236 |
| 320 | 350 | 15 | SL | NBR | 22.2100.3203 |
| 320 | 360 | 20 | SL | NBR | 22.2100.3236 |
| 320 | 360 | 20 | DL | NBR | 22.2110.0320 |
| 325 | 365 | 16 | T2 SL | NBR | 22.2350.0325 |
| 335 | 375 | 18 | DL | NBR | 22.2110.0217 |
| 340 | 380 | 20 | T2 SL | NBR | 22.2350.0340 |
| 340 | 380 | 18 | SL | NBR | 22.2100.3408 |
| 340 | 380 | 20 | SL | NBR | 22.2100.0340 |
| 340 | 380 | 20 | DL | NBR | 22.2110.3438 |
| 350 | 390 | 18 | T2 SL | NBR | 22.2350.3503 |
| 360 | 400 | 20 | T2 SL | NBR | 22.2350.3604 |
| 360 | 400 | 20 | SL | NBR | 22.2100.3604 |
| 360 | 400 | 20 | DL | FKM | 22.2210.0005 |
| 380 | 420 | 20 | AEX SL | NBR | 22.2300.0380 |
| 380 | 420 | 20 | T2 SL | NBR | 22.2350.0380 |
| 380 | 420 | 20 | SL | NBR | 22.2100.3804 |
| 380 | 420 | 20 | DL | NBR | 22.2110.0670 |
| 380 | 420 | 20 | DL | FKM | 22.2210.3842 |
| 394 | 420 | 16 | DL | NBR | 22.2110.0394 |
| 400 | 440 | 20 | SL | NBR | 22.2100.4002 |
| 420 | 460 | 20 | SL | FKM | 22.2200.4206 |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|-----|-----|----|-------|----------|---------------------|
| 420 | 460 | 20 | DL | FKM | 22.2210.0420 |
| 420 | 470 | 20 | SL | NBR | 22.2100.4204 |
| 430 | 480 | 22 | SL | NBR | 22.2100.0430 |
| 440 | 480 | 20 | T2 SL | NBR | 22.2350.4448 |
| 440 | 480 | 20 | SL | NBR | 22.2100.4404 |
| 440 | 480 | 20 | DL | NBR | 22.2110.4404 |
| 480 | 520 | 20 | DL | NBR | 22.2110.0194 |
| 500 | 540 | 20 | SL | NBR | 22.2100.0540 |
| 500 | 540 | 20 | DL | NBR | 22.2110.0210 |
| 530 | 580 | 20 | T2 SL | NBR | 22.2350.5358 |
| 560 | 610 | 20 | SL | NBR | 22.2100.5661 |
| 560 | 610 | 20 | SL | FKM | 22.2200.0560 |
| 600 | 640 | 20 | T2 SL | NBR | 22.2350.0600 |
| 600 | 640 | 20 | SL | NBR | 22.2100.0600 |
| 600 | 640 | 20 | SL | FKM | 22.2200.6006 |
| 600 | 640 | 20 | DL | FKM | 22.2210.6006 |
| 650 | 690 | 20 | T2 SL | NBR | 22.2350.0650 |

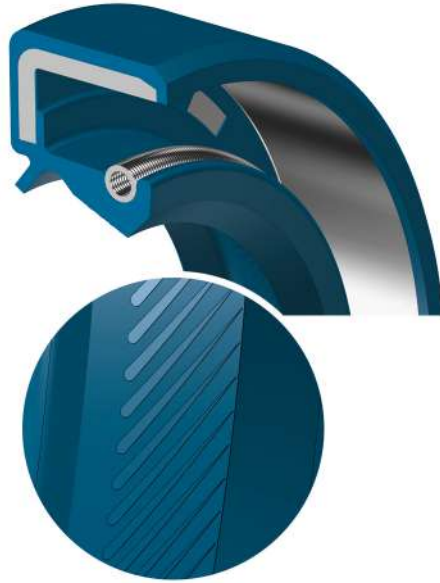
Rotary seals for

Automotive

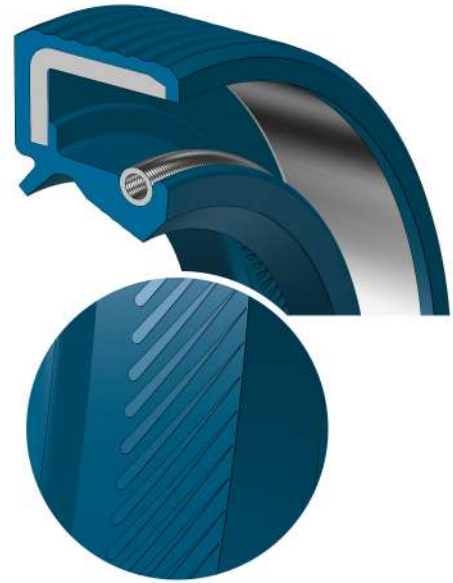
68

Engine rotary seals

With helixes



† DL HD - DL HG
 Rubber: FKM
 Metal case: Steel
 Spring: Stainless Steel AISI 304

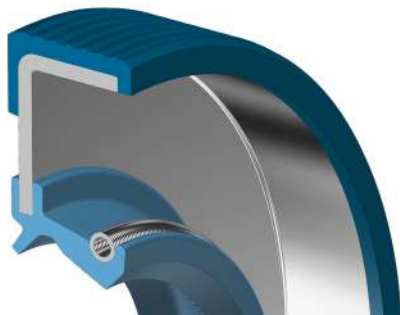


† AN DL HD - AN DL HG
 Rubber: FKM
 Metal case: Steel
 Spring: Stainless Steel AISI 304

Main characteristics

- Helixes are implemented on the lip seals' back (air side). They bring a pumping effect and therefore reject outgoing oil back to the fluid side. Helixes are oriented into the shaft rotating direction.
For these examples: HD type
- Linear speed < 10 m/s

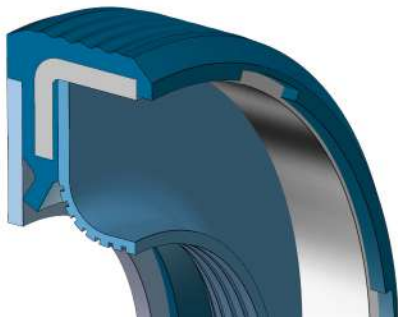
Camshaft rotary seals, front and rear crankshaft rotary seals



⌀ AN DL 2 HG - AN DL 2 HD
 Rubber: ACM outer diameter, FKM anti-dust and active lips
 Metal case: Steel / Stainless steel AISI 304
 Spring: Stainless Steel AISI 304

Main characteristics

- Helixes are implemented on the lip seals' back (air side). They bring a pumping effect and therefore reject outgoing oil back to the fluid side. Helixes are oriented into the shaft rotating direction.
- Linear speed < 10 m/s
- Long service life



⌀ AN SL PF
 Rubber: FKM or NBR / PTFE / Felt
 Metal case: Steel / Stainless steel AISI 304

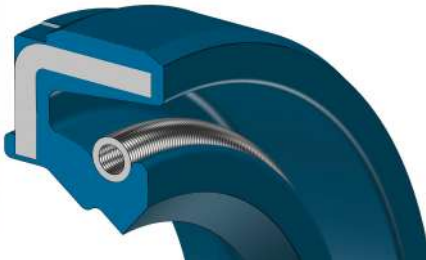
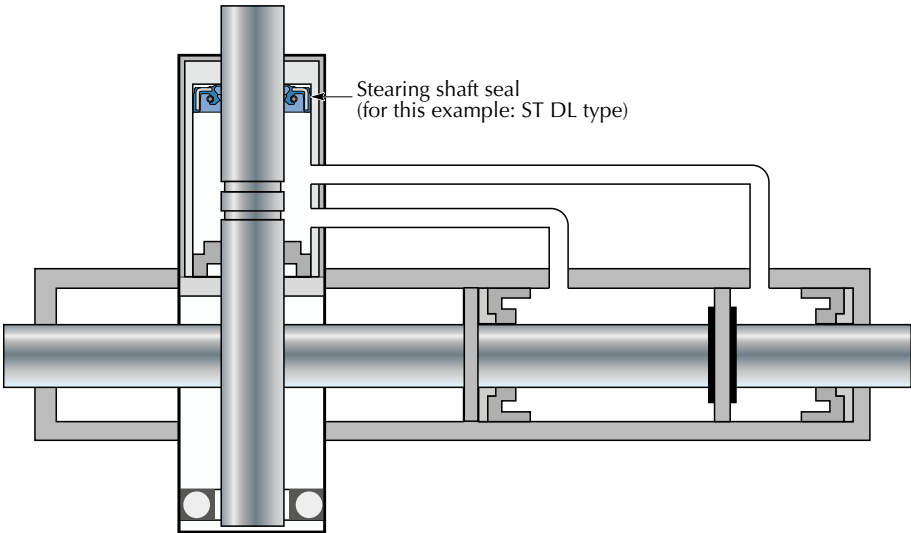
Main characteristics

- Linear speed < 30 m/s
- Suitable for high temperature thanks to PTFE lip
- Recommended for high speed thanks to PTFE lip and felt anti-dust lip
- Fitting & protection plastic gauge provided



70

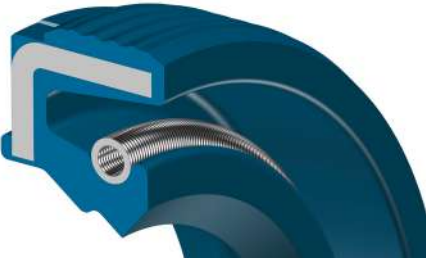
Steering shaft seals



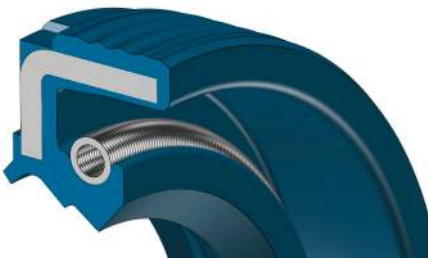
ϕ ST SL



ϕ ST DL



ϕ ST AN SL
Rubber: NBR or HNBR
Metal case: Steel
Spring: Steel

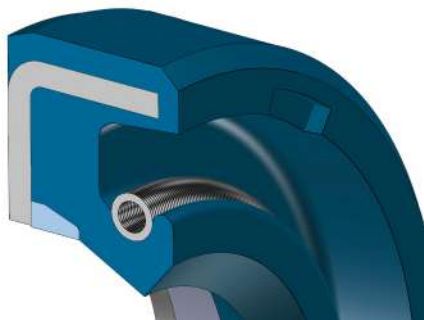
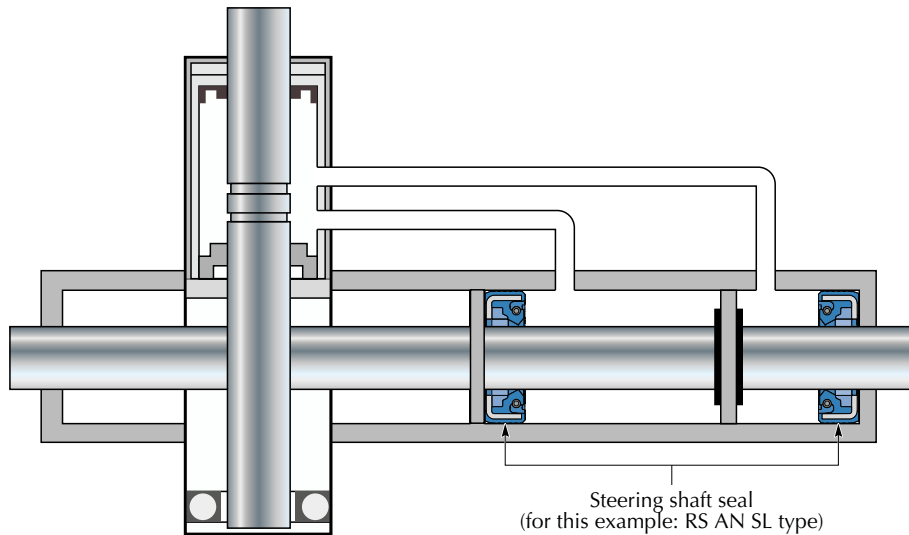


ϕ ST AN DL
Rubber: NBR or HNBR
Metal case: Steel
Spring: Steel

Main characteristics

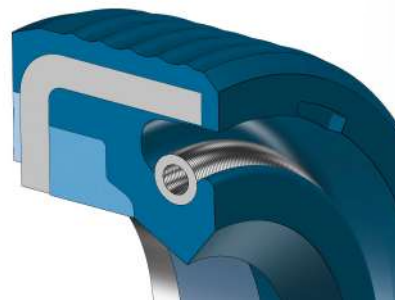
- Rotary function
- Active lip with reinforcement to prevent its reversion

Power steering shaft seals



◆ RS SL

Rubber: NBR or HNBR
 Metal case: Steel
 Spring: Steel
 Back-up ring: POM



◆ RS AN SL

Rubber: NBR or HNBR
 Metal case: Steel
 Spring: Steel
 Back-up ring: POM

Main characteristics

- Translative reciprocating function
- High pressure profil
- Integrated POM back-up ring for better pressure resistance and to avoid lip reversion
- With reinforcement to prevent its reversion
- On demand, helices can be implemented on the lip seals' back to bring a pumping effect and reject outgoing oil back to the fluid side and provide a longer service life
- RS AN SL in HNBR should be preferred for high pressure and high temperature

After market

Description

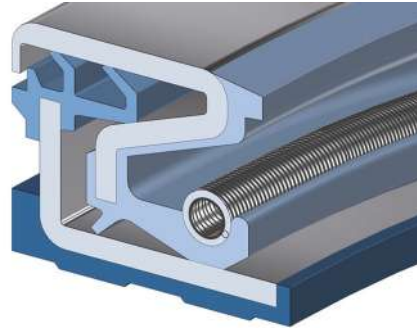
For aftermarket purpose, Techné offers full kitting service, including rotary shaft seal, boxes, labels ...
 Depending on the required quantity, customer brand name can be engraved on the the seals.



Rotary seals for

Agriculture & Construction

K7 seals



⌀ K7

Rubber: NBR, HNBR, FKM
 Metal case: Steel
 Spring: Steel
 Lubricant: Grease

Main characteristics

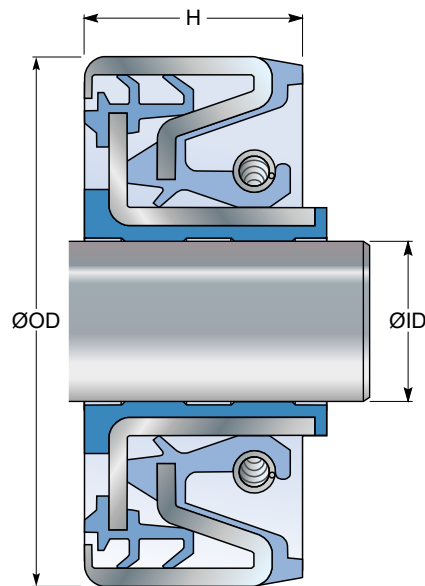
- Sealing function with high-end protection system against outer pollution (dust, mud, sand, water splashes...)
- Integrated shaft sleeve for avoiding shaft wear, no need to grind and harden shaft
- System of multiple small inner lips surrounded by grease to prevent pollution penetration
- Easy fitting
- Easy replacement as shaft is not worn off
- Long service life

Applications

Agricultural machinery, construction machines, mining equipments, track driven vehicles



Dimensional list



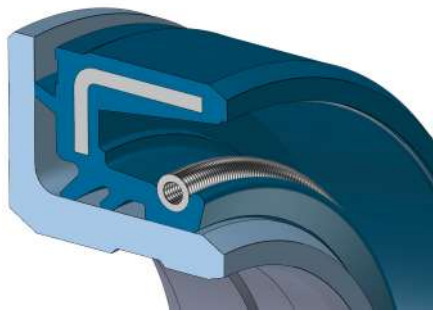
| ID | OD | H | Materials | ID | OD | H | Materials |
|-------|-------|-----------|-----------|--------|--------|---------|-----------|
| 25 | 52 | 12/13 | NBR | 65 | 85 | 10 | NBR |
| 25 | 62 | 16,5 | NBR | 65 | 95 | 11/18 | NBR |
| 27 | 50,8 | 16 | NBR | 66,15 | 91 | 12,5/14 | NBR |
| 35 | 60 | 13/14,5 | NBR | 70 | 95 | 14/14,5 | NBR |
| 35 | 65 | 14,5/17,5 | NBR | 70 | 95 | 10,5 | NBR |
| 40 | 65 | 13/14,5 | NBR | 73,02 | 92,07 | 13,5 | NBR |
| 40 | 80 | 11/19 | NBR | 75 | 100 | 13/14,5 | NBR |
| 40,02 | 60,96 | 10/16,51 | NBR | 75 | 100 | 12/14 | NBR |
| 41 | 76,2 | 16,51 | NBR | 79,38 | 114,3 | 17,07 | NBR |
| 45 | 75 | 10/12,5 | NBR | 84 | 112 | 13/14,5 | NBR |
| 45 | 85 | 10/12,5 | NBR | 85 | 110 | 13/14,5 | NBR |
| 45 | 70 | 14/17 | NBR | 85 | 110 | 14,5/17 | NBR |
| 45 | 70 | 14,5 | NBR | 85 | 115 | 12 | NBR |
| 45,72 | 93,68 | 12,7 | NBR | 85 | 115 | 12 | FKM |
| 50 | 68 | 7,5/19,5 | NBR | 88,9 | 115,49 | 22,86 | NBR |
| 53 | 79 | 13 | NBR | 88,9 | 122,99 | 22,96 | NBR |
| 53,2 | 78 | 13/14 | NBR | 88,9 | 122,99 | 23,5 | NBR |
| 55 | 80 | 12,5/14 | FKM | 90 | 120 | 13/14,5 | NBR |
| 56 | 80 | 13/14,5 | NBR | 90 | 130 | 17 | NBR |
| 57 | 82,5 | 18 | NBR | 95 | 120 | 13/14,5 | NBR |
| 60 | 90 | 13,5/15 | NBR | 95 | 130 | 13/14 | NBR |
| 64,49 | 88,9 | 9,5 | FKM | 98,42 | 130,27 | 21,4 | NBR |
| 65 | 100 | 13,5/15,5 | NBR | 100 | 130 | 12,5/14 | NBR |
| 65 | 90 | 13/14,5 | NBR | 100 | 135 | 13/15 | NBR |
| 65 | 100 | 13,5/15 | NBR | 100 | 140 | 16 | NBR |
| 65 | 105 | 13/14,5 | NBR | 107,95 | 152,63 | 25 | FKM |

ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Materials |
|--------|--------|-----------|-----------|
| 107,95 | 152,63 | 24,99 | NBR |
| 107,95 | 152,6 | 25,4 | NBR |
| 107,95 | 152,7 | 25,4 | NBR |
| 107,95 | 153,62 | 17,27 | NBR |
| 107,95 | 158,75 | 34,93 | NBR |
| 110 | 140 | 14,5/16 | NBR |
| 110 | 140 | 14/16,5 | NBR |
| 111,13 | 149,99 | 25,4 | NBR |
| 115 | 145 | 14 | NBR |
| 117,48 | 152,4 | 21,34 | NBR |
| 117,48 | 152,37 | 25,4 | NBR |
| 117,48 | 152,4 | 27 | NBR |
| 117,48 | 152,43 | 27 | NBR |
| 120 | 160 | 15/17,5 | NBR |
| 120 | 152 | 17 | NBR |
| 120 | 160 | 17 | NBR |
| 121,03 | 160,3 | 30,15 | NBR |
| 121,06 | 152,4 | 27 | NBR |
| 121,06 | 160,3 | 28,58 | NBR |
| 121,06 | 160,35 | 28,58 | NBR |
| 121,8 | 150 | 13 | NBR |
| 127 | 160 | 15,5/17 | NBR |
| 127 | 152,4 | 12,7 | FKM |
| 127 | 158,75 | 15,37 | NBR |
| 127 | 160 | 15,5/17,5 | NBR |
| 130 | 160 | 16 | NBR |
| 130 | 160 | 14,5/16 | NBR |
| 130 | 165 | 14,5/16 | NBR |
| 130 | 170 | 17 | FKM |
| 135 | 165 | 17 | FKM |
| 135 | 175 | 15,5/20 | NBR |
| 135 | 175 | 18 | NBR |
| 140 | 170 | 17 | NBR |
| 140 | 170 | 14,5/16 | NBR |
| 142 | 170 | 16 | NBR |
| 142,15 | 175,5 | 11,4 | NBR |
| 145 | 175 | 14,5/15,5 | NBR |
| 145 | 175 | 17 | NBR |
| 145 | 175 | 17 | FKM |
| 149,9 | 176 | 15,5/16 | NBR |
| 149,9 | 176 | 16 | NBR |
| 150 | 180 | 14,5/16 | FKM |
| 150 | 176 | 14,5/19,5 | NBR |
| 150 | 180 | 14,5/16 | NBR |

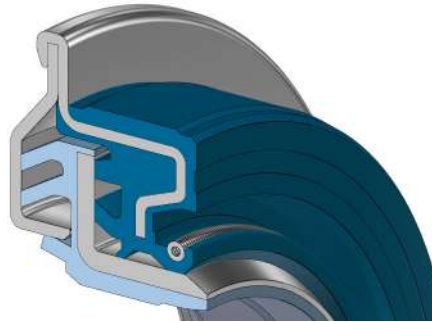
| ID | OD | H | Materials |
|--------|-----|---------|-----------|
| 150,15 | 178 | 13/16 | NBR |
| 155 | 190 | 14,5/16 | NBR |
| 155 | 190 | 14/19 | NBR |
| 155 | 190 | 17,5/19 | NBR |
| 158 | 188 | 16 | FKM |
| 165 | 190 | 15,5/17 | NBR |
| 167,8 | 198 | 13/17 | NBR |
| 170 | 200 | 15/16 | NBR |
| 178 | 208 | 16/18 | NBR |
| 189,8 | 230 | 15,5/17 | NBR |
| 190 | 220 | 16/18 | NBR |
| 210 | 240 | 16/18 | NBR |

PTO (Power Take Off) axle seal



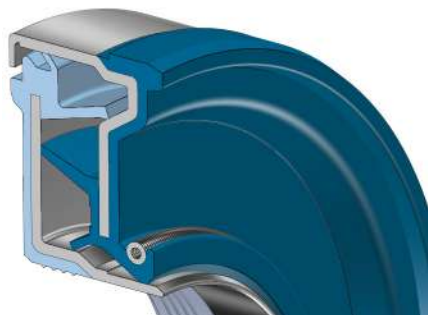
♣ K7O-PTO

Rubber: NBR, HNBR, FKM
 Metal case: Steel
 Spring: Steel
 Lubricant: Grease



♣ K7A-PTO

Rubber: NBR, HNBR, FKM
 Metal case: Steel
 Spring: Steel
 Lubricant: Grease



♣ K7S-PTO

Rubber: NBR, HNBR, FKM
 Metal case: Steel
 Spring: Steel
 Lubricant: Grease



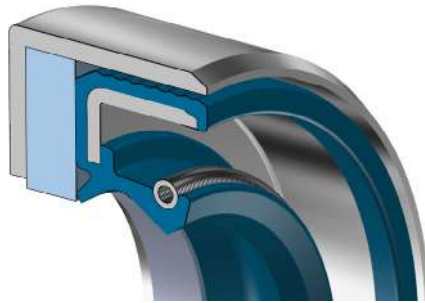
Main characteristics

- Specific K7 seals used in PTO (Power Take Off) applications for agriculture or construction equipment machines. Especially on tractors it is used for transferring the rotation from powertrain towards attached equipments (such as spreaders, seed drills...)
- Sealing function with high-end protection system against outer pollution (dust, mud, sand, water splashes...)
- Integrated shaft sleeve for avoiding shaft wear ≥ no need to grind and harden shaft
- System of multiple small inner lips surrounded by grease to prevent pollution penetration
- Easy fitting
- Easy replacement as shaft is not wearred off
- Long service life

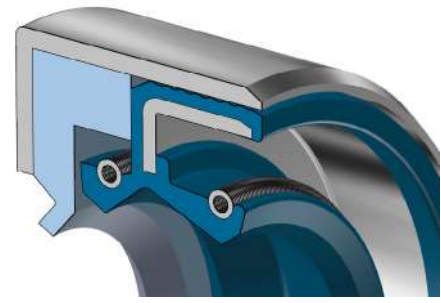
Applications

Agricultural machinery, construction machines

TL CO & TLO CO



† TL CO
 NBR: 22.4100
 Rubber: NBR
 Metal case: Steel
 Spring: Steel
 Wiper: PU



† TLO CO
 NBR: 22.4101
 Rubber: NBR
 Metal case: Steel
 Spring: Steel
 Wiper: PU

Main characteristics

- Specific designed rotary shaft seals used in transmission of heavy machinery. These profiles are recommended for military and 4 wheels driving vehicles' axles
- TL CO: standard AN DL rotary shaft seal integrated in a metal case with a PU wiper
- TLO CO: standard AN DLO rotary shaft seal integrated in a metal case with a PU wiper lip for a better resistance towards mud and short water immersions
- Excellent resistance to abrasive particles
- Also withstands small translations
- Long service life



CERF

anti pollution seals



◆ CERF

Rubber: NBR

Metal case: Steel

Sliding cuff: Steel + chrome surface treatment

Main characteristics

- Specific designed rotary shaft seals used in transmission axles of heavy machinery and agricultural equipments
- Assembly in combination with a sliding cuff is recommended
- Excellent resistance to abrasive particles
- Long service life



Rotary seals for

Industry

High pressure rotary seals



⌀ DL HP



⌀ DL HP10

1) Description

- Metal case covered with smooth rubber. DL type with an extra passive anti-dust lip.

2) Advantages

- Good static sealing
- Easy fitting & removal (without housing damage)
- Suitable for gas and liquids
- Prevents from a fretting corrosion
- Suitable for use with fluids under pressure up to 3 bars (for HP) and 10 bars for (HP10)
- Possible use with light alloys housings (with high thermal expansion such as aluminium)

3) Limitations

- Not suitable for applications with shaft misalignment
- Maximum linear speed and maximum pressure shall not be reached simultaneously
- See limitations page 120

4) Applications

- Axial and radial piston pumps
- External, internal, gearing and screw gear pumps
- Single chamber, double chamber vane pumps
- Under vacuum applications



ID: Inner Diameter
OD: Outer Diameter
H: Height

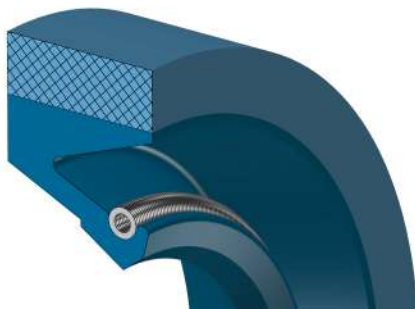
| ID | OD | H | Type | Material | Item no. |
|-------|-------|------|---------|----------|---------------------|
| 10 | 22 | 6 | DL HP | NBR | 22.2170.1022 |
| 10 | 22 | 7 | DL HP10 | NBR | 22.2169.0007 |
| 12 | 24 | 6 | DL HP | NBR | 22.2170.0078 |
| 12 | 33 | 6 | DL HP | NBR | 22.2170.1233 |
| 15 | 25 | 6 | DL HP | NBR | 22.2170.1525 |
| 15 | 28 | 7 | DL HP | NBR | 22.2170.1528 |
| 15 | 30 | 7 | DL HP | FKM | 22.2270.0110 |
| 17 | 30 | 6 | DL HP10 | NBR | 22.2169.0009 |
| 17 | 30 | 6 | DL HP10 | FKM | 22.2269.1730 |
| 17,46 | 28,57 | 6,35 | DL HP | NBR | 22.2170.0026 |
| 18 | 30 | 6 | DL HP | NBR | 22.2170.1831 |
| 18 | 30 | 6 | DL HP | FKM | 22.2270.0112 |
| 18 | 30 | 7 | DL HP | NBR | 22.2170.1830 |
| 18 | 35 | 6 | DL HP | FKM | 22.2270.0098 |
| 19 | 27,2 | 5 | DL HP | NBR | 22.2170.1927 |
| 19 | 40 | 8 | DL HP | NBR | 22.2170.1940 |
| 20 | 30 | 7 | DL HP | NBR | 22.2170.0071 |
| 20 | 30 | 7 | DL HP10 | NBR | 22.2169.0012 |
| 20 | 30 | 7 | DL HP10 | FKM | 22.2269.2030 |
| 20 | 35 | 6 | DL HP | NBR | 22.2170.2035 |
| 20 | 35 | 6 | DL HP10 | NBR | 22.2169.0010 |
| 20 | 35 | 7 | DL HP10 | NBR | 22.2169.0005 |
| 20 | 35 | 7 | DL HP10 | FKM | 22.2269.0113 |
| 20 | 40 | 7 | DL HP | NBR | 22.2170.2040 |
| 20 | 40 | 7 | DL HP | FKM | 22.2270.0114 |
| 22 | 32 | 6 | DL HP | NBR | 22.2170.2232 |
| 22 | 32 | 6 | DL HP | FKM | 22.2270.2232 |
| 22 | 32 | 7 | DL HP | NBR | 22.2170.0080 |
| 22 | 35 | 6 | DL HP | NBR | 22.2170.2235 |
| 22 | 42 | 11 | DL HP | FKM | 22.2270.0105 |
| 24 | 40 | 7 | DL HP | NBR | 22.2170.2440 |
| 24 | 40 | 7 | DL HP | NBR | 22.2170.2447 |
| 24 | 40 | 7 | DL HP | FKM | 22.2270.0116 |
| 25 | 35 | 6 | DL HP | FKM | 22.2270.0117 |
| 25 | 35 | 6 | DL HP10 | NBR | 22.2169.0011 |
| 25 | 35 | 6 | DL HP10 | FKM | 22.2269.0105 |
| 25 | 37 | 6 | DL HP | NBR | 22.2170.0063 |
| 25 | 40 | 7 | DL HP | NBR | 22.2170.0034 |
| 25 | 42 | 7 | DL HP | NBR | 22.2170.0068 |
| 25 | 42 | 7 | DL HP10 | NBR | 22.2169.0008 |
| 28 | 40 | 6 | DL HP | NBR | 22.2170.0081 |
| 28 | 40 | 6 | DL HP | FKM | 22.2270.0118 |
| 28,5 | 42 | 6 | DL HP | NBR | 22.2170.0125 |
| 28,58 | 50,8 | 6,35 | DL HP | NBR | 22.2170.0084 |

| ID | OD | H | Type | Material | Item no. |
|-------|-------|------|---------|----------|---------------------|
| 30 | 42 | 6,5 | DL HP | NBR | 22.2170.3042 |
| 30 | 42 | 7 | DL HP | FKM | 22.2270.0097 |
| 30 | 47 | 7 | DL HP10 | NBR | 22.2169.0006 |
| 30 | 50 | 7 | DL HP | FKM | 22.2270.0119 |
| 31,75 | 44,45 | 6,35 | DL HP | NBR | 22.2170.0040 |
| 32 | 44 | 8 | DL HP | NBR | 22.2170.0324 |
| 32 | 45 | 7 | DL HP | NBR | 22.2170.0032 |
| 32 | 47 | 6 | DL HP | FKM | 22.2270.3247 |
| 32 | 50 | 7 | DL HP | NBR | 22.2170.3250 |
| 32 | 52 | 6 | DL HP | FKM | 22.2270.3252 |
| 35 | 47 | 6 | DL HP | NBR | 22.2170.3547 |
| 35 | 47 | 6 | DL HP | FKM | 22.2270.0109 |
| 35 | 47 | 7 | DL HP | NBR | 22.2170.0057 |
| 35 | 47 | 7 | DL HP | NBR | 22.2170.0354 |
| 35 | 47 | 7 | DL HP | FKM | 22.2270.3547 |
| 35 | 50 | 7 | DL HP | FKM | 22.2270.0120 |
| 35 | 52 | 6 | DL HP | NBR | 22.2170.0060 |
| 35 | 52 | 6 | DL HP | FKM | 22.2270.0121 |
| 38 | 50 | 6 | DL HP10 | FKM | 22.2269.3850 |
| 40 | 52 | 7 | DL HP | NBR | 22.2170.4052 |
| 40 | 52 | 7 | DL HP | FKM | 22.2270.0122 |
| 40 | 55 | 6 | DL HP | FKM | 22.2270.0123 |
| 40 | 55 | 7 | DL HP | NBR | 22.2170.4055 |
| 40 | 56 | 6 | DL HP | NBR | 22.2170.0067 |
| 40 | 60 | 7 | DL HP | FKM | 22.2270.4007 |
| 40 | 62 | 6 | DL HP | NBR | 22.2170.4062 |
| 40 | 62 | 6 | DL HP | FKM | 22.2270.0124 |
| 40 | 62 | 6 | DL HP10 | FKM | 22.2269.4062 |
| 45 | 58 | 6 | DL HP | NBR | 22.2170.0061 |
| 45 | 62 | 7 | DL HP | FKM | 22.2270.0107 |
| 45 | 62 | 7 | DL HP10 | FKM | 22.2269.0110 |
| 45 | 65 | 7 | DL HP | NBR | 22.2170.0045 |
| 45 | 65 | 7 | DL HP | FKM | 22.2270.0091 |
| 50 | 65 | 7 | DL HP | FKM | 22.2270.5065 |
| 50 | 68 | 8 | DL HP | NBR | 22.2170.5068 |
| 50 | 72 | 7 | DL HP | NBR | 22.2170.5072 |
| 50 | 72 | 7 | DL HP | FKM | 22.2270.5072 |
| 55 | 70 | 8 | DL HP | NBR | 22.2170.0083 |
| 55 | 70 | 8,5 | DL HP | FKM | 22.2270.5570 |
| 55 | 72 | 7 | DL HP | FKM | 22.2270.5572 |
| 55 | 72 | 8 | DL HP | NBR | 22.2170.7255 |
| 60 | 80 | 7 | DL HP | NBR | 22.2170.6080 |
| 60 | 80 | 7 | DL HP | FKM | 22.2270.6080 |
| 65 | 85 | 7 | DL HP | NBR | 22.2170.0065 |

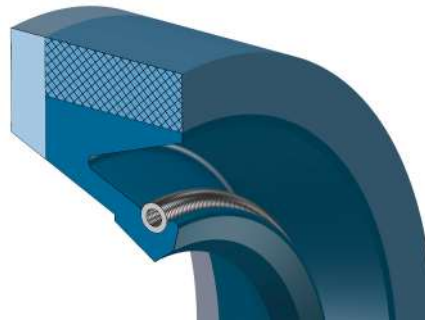
ID: Inner Diameter
OD: Outer Diameter
H: Height

| ID | OD | H | Type | Material | Item no. |
|-----|-----|-----|-------|----------|---------------------|
| 65 | 85 | 10 | DL HP | NBR | 22.2170.0658 |
| 70 | 90 | 7 | DL HP | NBR | 22.2170.7090 |
| 80 | 100 | 7 | DL HP | FKM | 22.2270.0106 |
| 85 | 105 | 7 | DL HP | FKM | 22.2270.8507 |
| 95 | 120 | 12 | DL HP | NBR | 22.2170.0088 |
| 100 | 120 | 7,5 | DL HP | NBR | 22.2170.0086 |
| 125 | 160 | 7,5 | DL HP | NBR | 22.2170.1251 |
| 130 | 150 | 10 | DL HP | FKM | 22.2270.0095 |
| 130 | 160 | 13 | DL HP | NBR | 22.2170.0130 |
| 140 | 160 | 10 | DL HP | NBR | 22.2170.0087 |
| 150 | 164 | 5 | DL HP | NBR | 22.2170.0091 |
| 190 | 220 | 16 | DL HP | FKM | 22.2270.0190 |

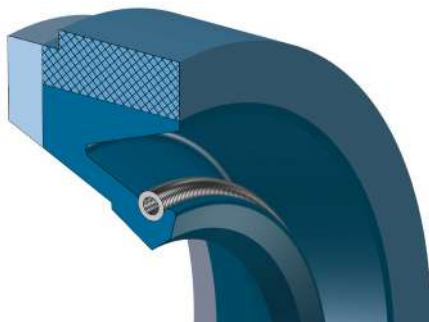
ATR SL - Fabric reinforced rotary seals



✦ ATR SL
NBR: 22.2184
FKM: 22.2280



✦ ATR SL PG
On request



✦ ATR SL PGR
NBR: 22.2176

1) Description

- Fabric reinforced rubber case, with tension metallic spring
- Can be delivered split (F) or ready to cut (C)
- A back-up ring can be added for higher pressures
- Assembly in 2-halves housings
- ATR SL PG with extra gorge
- ATR SL PGR with extra gorge and groove
- ATR SL PG and ATR SL PGR must be paired and installed back to back

2) Advantages

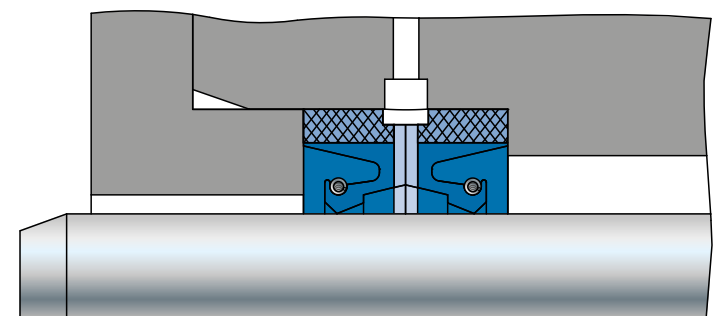
- Suitable for big sizes
- Easy fitting (no metal case)

3) Limitations

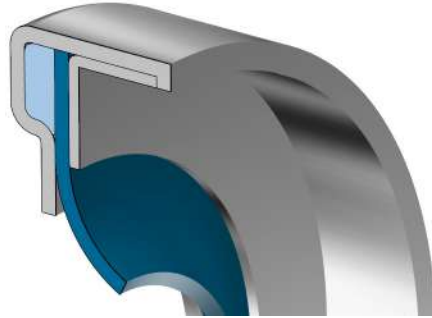
- Maximum linear speed 20 m/s
- Maximum pressure 0.5 bar
- Maximum linear speed and maximum pressure shall not be reached simultaneously

4) Applications

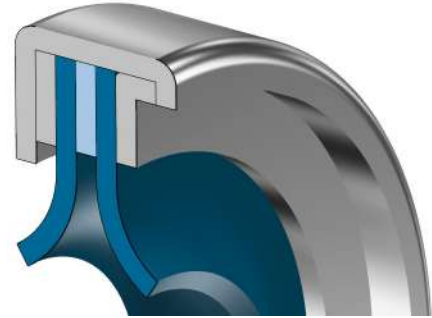
- Mills
- Ships (engines and screws / propellers)
- Wind turbines



PTFE lip seals



⌀ AI P-SL SER
NBR: 22.2520
FKM: 22.2502



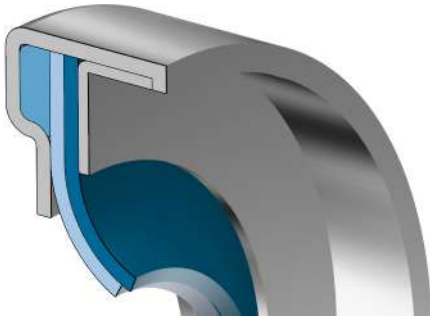
⌀ AI P-DLO SER
On request

1) Description

- Made of one or several PTFE lips crimped between two metal cases

2) Available materials

- Case: Stainless steel AISI 316, other on demand
- Lip(s): PTFE (FDA approval on demand), PTFE + glassfiber + MoS₂ (for high speed applications), PTFE + carbon graphit (on demand)
- Rubber: NBR, FKM



✦ AI P-DLT SER
On request



✦ AI P-DL ADH

3) Advantages

- Excellent chemical resistance
- Low friction lip
- High shaft rotation speed authorised
- Possible use in dry or low-lubricated applications
- High thermal resistance up to 200 °C
- Possible use with food contact (on demand)
- No stick-slip
- Outer diameter can be machined for higher fitting precision
- Can be delivered with a fitting tool

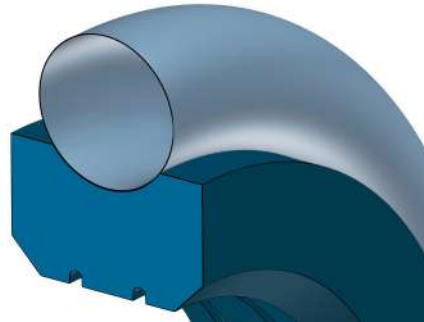
4) Limitations

- Maximum linear speed: 30 m.s⁻¹
- Maximum pressure: 10 bars
- Reduced allowed shaft misalignment and run-out
- Shaft surface roughness: $0.2 < Ra < 0.4$; $1 < Rz < 5$ and $R_{max} < 6.3$
- Maximum linear speed and maximum pressure shall not be reached simultaneously

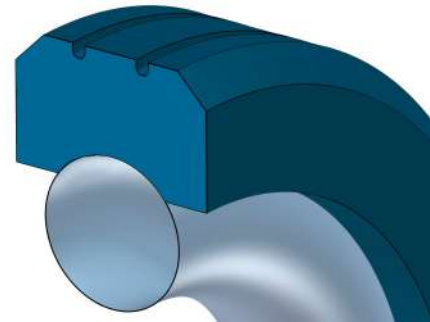
5) Applications

- Engine crankshafts
- Gearboxes
- Food industry
- Pumps for chemical industry

RST & RSP PTFE rubber energized seal



⌀ RST
Machined part



⌀ RSP
Machined part

1) Description

- Double acting composite seal made of a PTFE sliding ring and a rubber expander

2) Available materials

- PTFE Ring: PTFE carbon/graphit, PTFE bronze, PTFE virgin (food and medical applications), others on demand
- O-Ring: NBR, FKM, others on demand

3) Advantages

- Excellent pressure resistance
- Double effect
- Easy fitting thanks to its symmetrical profile
- Low friction
- No stick-slip
- Specific dimensions possible
- Back-up ring can be added

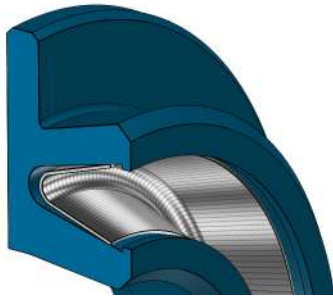
4) Limitations

- Maximum linear speed: 10 m.s-1
- Maximum pressure: 400 bar
- Temperature up to 200 °C
- Shaft surface roughness: $0.05 < Ra < 0.3$ and $R_{max} < 2.5$
- Maximum linear speed and maximum pressure shall not be reached simultaneously

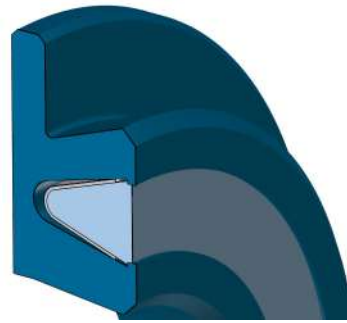
5) Applications

- Injection moulding presses
- Mills
- Construction machines: rotary distributors, manipulators, hydraulic motors...

VR & VAR PTFE spring energized seals



✦ VR
Machined part



✦ VAR
Machined part

1) Description

- Rotary V-shape flanged PTFE ring energized by a V-shape spring

2) Available materials

- PTFE V-shape ring: PTFE carbon/graphit, PTFE virgin (food and medical applications), others on demand, silicone filling on demand
- Spring: stainless steel AISI 316, Elgiloy (R), others on demand

3) Advantages

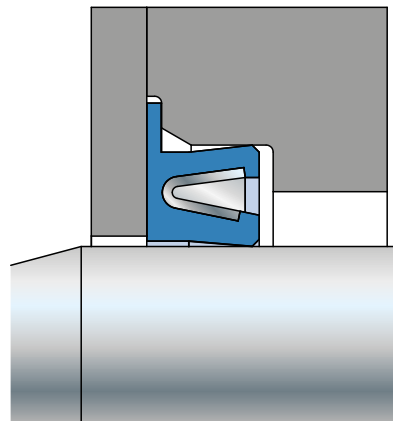
- Excellent chemical resistance
- Hygienic use with VAR profile with silicone filling
- Possible use for rotary, oscillating, linear and static applications
- Low friction
- No stick slip

4) Limitations

- Maximum linear speed: 10 m.s⁻¹
- Maximum pressure: 50 bar
- Temperature: up to 200 °C
- Maximum shaft surface roughness : Ra 0.1 to 0.2 depending on the fluid to seal
- To be installed in open groove only
- Maximum linear speed and maximum pressure shall not be reached simultaneously

5) Applications

- Agricultural machines, wine industry, food industry
- Injection moulding machines
- Rotary distributors



Custom made rotary seals

For some applications, customers may need non-standard profiles. In such cases, Techné Engineering Department proposes its expertise and experience for creating or optimising new profiles dedicated to the specific customer application.

Techné Engineering Department support may consist in a simple validation / recommendation, up to a complete project development including APQP management. Any project ? Please fulfill our Design Sheet - page 135.

All necessary information, such as rotation speed, temperature, fluids in contact, housing and shaft materials will be analysed, and a specific profile will be proposed in accordance with your needs.

1) Example

anti-pollution Seals for tractor wheels

Customer specification:

- parts have first to be validated on a specific test bench with regular checks and data records
- working parameters are given (pressure, speed, temperature)

2) Techné expertise:

- material selection with an optimised abrasion resistant compound
- definition of the seal's shape, the appropriate surface roughness, the seals' dimensions and tolerances - Elaboration of the drawing
- Manufacture of a prototype tool
- Conception and manufacture of the test bench
- Endurance tests during 3 months in different fluids with regular checks
- Presentation of the test results to the end customer for a final approval

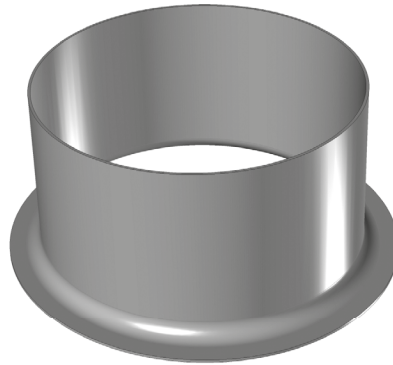
3) Coatings

- Techné coatings consist in solid lubricant deposited on profile surface with an approximative thickness from 5 up to 35 microns. Most of Techné coatings are PTFE based.
- PTFE is known for its excellent sliding properties.
- Techné Coatings on Rotary Seal's lip help to reduce the friction between seal and shaft and prevent so an early wear of the shaft. They are especially effective in high rotation speed applications.
- Coatings are offered according customers' specifications. Approved compounds for food applications are also available.
- For further information about Coatings, see Techné Catalogue Rubber Seals.

Sleeves

Description

After some times, the initial characteristics of a shaft may be altered. Scars and wear appear and the sealing function of the rotary shaft seal is no more guaranteed. Changing the seal isn't an option anymore. Changing the shaft is often expensive or difficult. Techné sliding sleeves offer a cost effective solution to damaged shafts. They consist in a thin stainless steel ring, which is set up directly on the shaft. With a new sliding surface, life of shafts is extended. Techné usually recommend to set up a new rotary shaft seal after assembly of the sleeve.



Materials

- Stainless Steel AISI 304 (standard) Techné Code: 22.0001
- Stainless Steel AISI 316 (on demand) Techné Code: 22.0002

Characteristics

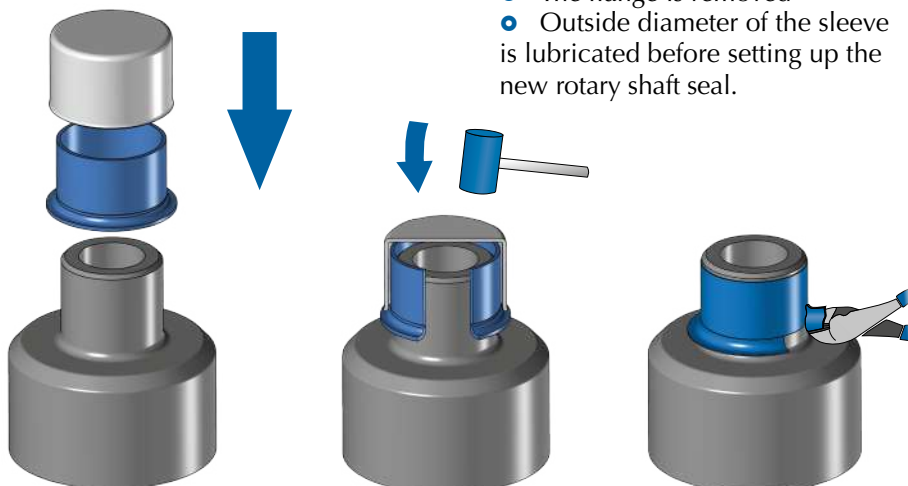
- Sleeve thickness: ~0.28 mm
- Available for shaft Ø12 to Ø200 - Imperial and metric dimensions
- Ra: 0.20 to 0.80 µm
- Rz: 1 to 5 µm
- Rmax: 6.3 µm

An additional assembly flange will be removed after fitting.

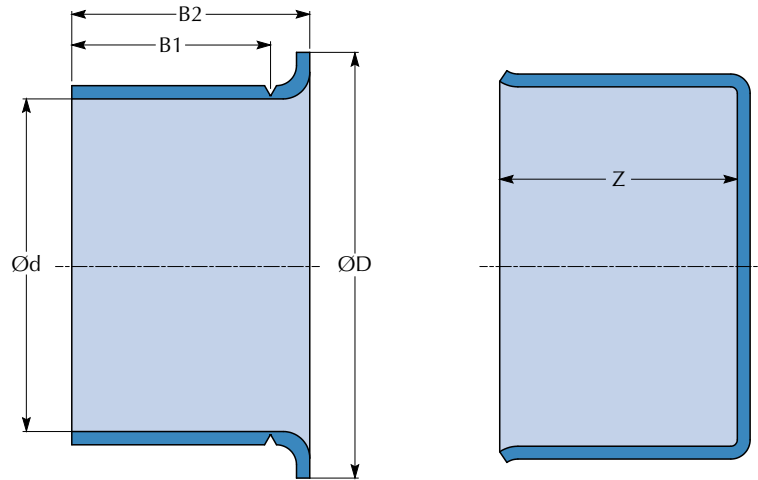
A groove between the ring and the flange allows to remove the flange easily. Sleeves are delivered in individual boxes including a fitting tool and written mounting instructions.

Fitting

- Shaft first needs to be cleaned, burrs must be removed at the place the sleeve will be set up.
- The sleeve is set up with the flange on the bottom side
- The fitting tool is fitted onto the sleeve. An additional tube may be used if necessary.
- The tool is pushed down with the help of an hydraulic press (recommended) or a hammer until the sleeve is in position
- Setting tool is then removed from the sleeve
- The flange is removed
- Outside diameter of the sleeve is lubricated before setting up the new rotary shaft seal.



Dimensional list



| Nominal shaft Ø | | Shaft Ø range (mm) | | ØD (±1,6) | B1 (±0,8) | B2 (±0,8) | z | Code |
|-----------------|-------|--------------------|-------|--------------|--------------|--------------|-------|---------------------|
| mm | in | Min. | Max. | | | | | |
| 12,00 | 0,472 | 11,91 | 12,07 | 15,50 | 6,00 | 8,40 | 47,60 | 22.0001.0001 |
| 12,70 | 0,500 | 12,65 | 12,75 | 15,50 | 6,30 | 8,70 | 50,80 | 22.0001.0013 |
| 14,00 | 0,551 | 13,89 | 14,00 | 19,10 | 6,30 | 9,90 | 46,50 | 22.0001.0002 |
| 15,00 | 0,591 | 14,96 | 15,06 | 19,10 | 5,00 | 9,00 | 47,30 | 22.0001.0003 |
| 15,88 | 0,625 | 15,83 | 15,93 | 19,10 | 8,00 | 10,30 | 50,80 | 22.0001.0014 |
| 16,00 | 0,630 | 15,90 | 16,00 | 18,20 | 8,00 | 11,10 | 50,80 | 22.0001.0004 |
| 17,00 | 0,669 | 16,94 | 17,04 | 22,20 | 8,00 | 11,00 | 50,80 | 22.0001.0005 |
| 17,93 | 0,706 | 17,88 | 18,01 | 24,40 | 8,00 | 11,00 | 46,00 | 22.0001.0015 |
| 19,05 | 0,750 | 19,00 | 19,10 | 24,00 | 8,00 | 11,10 | 50,80 | 22.0001.0010 |
| 20,00 | 0,787 | 19,94 | 20,04 | 23,60 | 8,00 | 11,00 | 50,80 | 22.0001.0006 |
| 21,82 | 0,859 | 21,77 | 21,87 | 29,30 | 6,30 | 9,50 | 50,80 | 22.0001.0017 |
| 22,00 | 0,866 | 21,87 | 22,00 | 30,20 | 6,60 | 9,10 | 47,10 | 22.0001.0007 |
| 22,00 | 0,866 | 21,87 | 22,00 | 30,20 | 8,00 | 12,00 | 46,00 | 22.0001.0008 |
| 22,23 | 0,875 | 22,18 | 22,28 | 27,80 | 8,00 | 11,10 | 50,80 | 22.0001.0018 |
| 24,00 | 0,945 | 23,88 | 24,00 | 28,70 | 8,00 | 11,10 | 50,80 | 22.0001.0009 |
| 24,60 | 0,969 | 24,54 | 24,64 | 28,70 | 8,00 | 11,10 | 50,80 | 22.0001.0019 |
| 25,00 | 0,984 | 24,94 | 25,04 | 33,00 | 8,00 | 11,00 | 50,80 | 22.0001.0025 |
| 25,40 | 1,000 | 25,35 | 25,45 | 31,00 | 8,00 | 11,10 | 50,80 | 22.0001.0020 |
| 26,01 | 1,024 | 25,88 | 26,01 | 33,40 | 8,00 | 12,00 | 46,00 | 22.0001.0021 |
| 27,00 | 1,063 | 26,92 | 27,03 | 33,50 | 8,00 | 11,10 | 46,80 | 22.0001.0027 |
| 28,00 | 1,102 | 27,94 | 28,04 | 34,90 | 9,50 | 12,70 | 46,80 | 22.0001.0028 |
| 28,58 | 1,125 | 28,53 | 28,63 | 38,10 | 8,00 | 11,10 | 17,50 | 22.0001.0022 |
| 29,36 | 1,156 | 29,31 | 29,41 | 34,30 | 9,50 | 12,70 | 17,50 | 22.0001.0023 |
| 30,00 | 1,181 | 29,95 | 30,07 | 35,60 | 8,00 | 11,00 | 17,50 | 22.0001.0030 |
| 30,96 | 1,219 | 30,89 | 31,04 | 39,70 | 8,00 | 11,00 | 15,90 | 22.0001.0024 |
| 31,50 | 1,240 | 31,42 | 31,58 | 39,10 | 8,00 | 11,10 | 17,50 | 22.0001.0026 |
| 31,80 | 1,252 | 31,67 | 31,83 | 38,10 | 8,00 | 11,10 | 17,50 | 22.0001.0029 |

| Nominal shaft Ø | | Shaft Ø range (mm) | | ØD (±1,6) | B1 (±0,8) | B2 (±0,8) | z | Code |
|-----------------|-------|--------------------|-------|--------------|--------------|--------------|-------|---------------------|
| mm | in | Min. | Max. | | | | | |
| 32,00 | 1,260 | 31,92 | 32,08 | 38,10 | 8,00 | 11,10 | 17,50 | 22.0001.0032 |
| 33,00 | 1,299 | 32,94 | 33,05 | 40,49 | 15,01 | 18,00 | 20,65 | 22.0001.0033 |
| 33,35 | 1,313 | 33,22 | 33,38 | 40,60 | 6,30 | 9,50 | 20,70 | 22.0001.0031 |
| 33,35 | 1,313 | 33,27 | 33,43 | 40,50 | 12,70 | 15,90 | 20,70 | 22.0001.0031 |
| 34,01 | 1,339 | 33,86 | 34,01 | 41,30 | 12,70 | 15,90 | 20,70 | 22.0001.0200 |
| 34,93 | 1,375 | 34,93 | 35,08 | 41,60 | 13,00 | 16,00 | 20,70 | 22.0001.0035 |
| 36,00 | 1,417 | 35,84 | 36,00 | 45,20 | 13,00 | 17,00 | 25,00 | 22.0001.0036 |
| 38,00 | 1,496 | 37,85 | 38,00 | 45,20 | 13,00 | 17,00 | 25,00 | 22.0001.0038 |
| 38,10 | 1,500 | 38,02 | 38,18 | 45,20 | 9,50 | 12,70 | 25,80 | 22.0001.0201 |
| 38,10 | 1,500 | 38,02 | 38,18 | 45,20 | 14,30 | 17,50 | 25,80 | 22.0001.0203 |
| 39,42 | 1,552 | 39,34 | 39,50 | 47,20 | 11,10 | 14,30 | 25,80 | 22.0001.0204 |
| 40,00 | 1,575 | 39,85 | 40,00 | 46,90 | 9,90 | 12,90 | 25,40 | 22.0001.0040 |
| 40,08 | 1,578 | 39,93 | 40,08 | 47,00 | 13,00 | 16,00 | 26,00 | 22.0001.0401 |
| 41,00 | 1,614 | 40,84 | 41,00 | 49,20 | 12,70 | 15,90 | 25,80 | 22.0001.0041 |
| 41,28 | 1,625 | 41,20 | 41,35 | 47,60 | 14,30 | 17,50 | 20,70 | 22.0001.0205 |
| 41,90 | 1,650 | 41,83 | 42,00 | 53,00 | 11,30 | 14,50 | 21,40 | 22.0001.0206 |
| 43,00 | 1,693 | 42,85 | 43,00 | 48,40 | 12,70 | 15,90 | 21,30 | 22.0001.0043 |
| 43,66 | 1,719 | 43,56 | 43,71 | 51,60 | 14,30 | 17,50 | 20,70 | 22.0001.0207 |
| 44,17 | 1,739 | 44,09 | 44,25 | 52,40 | 9,50 | 12,70 | 20,70 | 22.0001.0208 |
| 44,45 | 1,750 | 44,37 | 44,53 | 52,40 | 14,30 | 17,50 | 20,70 | 22.0001.0209 |
| 44,86 | 1,766 | 44,73 | 44,88 | 52,40 | 14,30 | 17,50 | 20,70 | 22.0001.0210 |
| 45,00 | 1,772 | 44,93 | 45,09 | 53,00 | 14,00 | 17,00 | 20,60 | 22.0001.0045 |
| 45,24 | 1,781 | 45,16 | 45,31 | 54,00 | 16,90 | 20,30 | 27,00 | 22.0001.0451 |
| 46,05 | 1,813 | 45,95 | 46,10 | 53,10 | 14,30 | 17,50 | 25,40 | 22.0001.0211 |
| 48,03 | 1,891 | 47,93 | 48,09 | 56,00 | 14,00 | 17,00 | 25,00 | 22.0001.0212 |
| 49,23 | 1,938 | 49,12 | 49,28 | 56,40 | 14,30 | 17,50 | 25,40 | 22.0001.0213 |
| 50,00 | 1,969 | 49,91 | 50,06 | 57,00 | 14,00 | 17,00 | 25,00 | 22.0001.0050 |
| 50,80 | 2,000 | 50,72 | 50,88 | 61,10 | 14,30 | 17,50 | 25,40 | 22.0001.0214 |
| 52,00 | 2,047 | 51,82 | 52,00 | 62,70 | 12,70 | 15,90 | 34,50 | 22.0001.0052 |
| 53,98 | 2,125 | 53,92 | 54,05 | 61,50 | 12,70 | 19,10 | 32,50 | 22.0001.0215 |
| 53,98 | 2,125 | 53,95 | 54,10 | 61,50 | 19,80 | 23,80 | 34,90 | 22.0001.0216 |
| 55,00 | 2,165 | 54,91 | 55,07 | 62,00 | 20,00 | 23,00 | 31,80 | 22.0001.0055 |
| 56,00 | 2,205 | 55,83 | 56,00 | 64,30 | 12,70 | 15,90 | 33,40 | 22.0001.0561 |
| 57,15 | 2,250 | 57,12 | 57,28 | 64,30 | 8,00 | 11,10 | 33,40 | 22.0001.0217 |
| 58,00 | 2,283 | 57,91 | 58,06 | 65,99 | 19,84 | 23,83 | 34,93 | 22.0001.0058 |
| 60,00 | 2,362 | 59,92 | 60,07 | 70,70 | 9,40 | 11,40 | 34,90 | 22.0001.0601 |
| 60,00 | 2,362 | 59,92 | 60,07 | 70,70 | 20,00 | 23,00 | 37,30 | 22.0001.0060 |
| 62,00 | 2,441 | 61,82 | 62,00 | 71,80 | 12,70 | 15,90 | 36,10 | 22.0001.0062 |
| 63,50 | 2,500 | 63,50 | 63,65 | 71,80 | 12,70 | 16,70 | 35,40 | 22.0001.0218 |
| 65,00 | 2,559 | 64,92 | 65,08 | 72,40 | 20,00 | 23,00 | 34,90 | 22.0001.0065 |
| 66,00 | 2,598 | 65,91 | 66,07 | 76,00 | 19,80 | 23,80 | 31,80 | 22.0001.0066 |
| 68,00 | 2,677 | 67,82 | 68,00 | 79,40 | 19,10 | 22,20 | 42,90 | 22.0001.0068 |
| 69,85 | 2,750 | 69,77 | 69,93 | 78,10 | 36,50 | 41,30 | 41,30 | 22.0001.0220 |

| Nominal shaft Ø | | Shaft Ø range (mm) | | ØD (±1,6) | B1 (±0,8) | B2 (±0,8) | z | Code |
|-----------------|-------|--------------------|--------|--------------|--------------|--------------|-------|---------------------|
| mm | in | Min. | Max. | | | | | |
| 70,00 | 2,756 | 69,93 | 70,08 | 79,40 | 20,00 | 24,00 | 31,80 | 22.0001.0701 |
| 71,45 | 2,813 | 71,35 | 71,50 | 81,00 | 15,10 | 17,50 | 31,80 | 22.0001.0226 |
| 72,00 | 2,835 | 71,83 | 72,00 | 81,90 | 19,10 | 22,20 | 34,10 | 22.0001.0072 |
| 73,03 | 2,875 | 72,97 | 73,13 | 81,80 | 19,80 | 23,80 | 31,80 | 22.0001.0073 |
| 74,63 | 2,938 | 74,60 | 74,75 | 84,90 | 19,80 | 23,80 | 33,40 | 22.0001.0227 |
| 75,00 | 2,953 | 74,93 | 75,08 | 83,10 | 15,10 | 17,50 | 27,50 | 22.0001.0075 |
| 75,00 | 2,953 | 74,93 | 75,08 | 84,00 | 22,00 | 26,00 | 33,40 | 22.0001.0751 |
| 78,00 | 3,071 | 77,83 | 78,00 | 88,00 | 19,10 | 22,20 | 52,20 | 22.0001.0078 |
| 79,91 | 3,146 | 79,81 | 80,01 | 89,90 | 19,10 | 22,50 | 34,90 | 22.0001.0228 |
| 80,00 | 3,150 | 79,91 | 80,09 | 90,00 | 11,00 | 15,00 | 34,90 | 22.0001.0801 |
| 80,00 | 3,150 | 79,91 | 80,09 | 90,00 | 21,00 | 24,00 | 34,90 | 22.0001.0080 |
| 82,00 | 3,228 | 81,92 | 82,07 | 91,10 | 16,80 | 21,50 | 44,50 | 22.0001.0082 |
| 82,55 | 3,250 | 82,55 | 82,70 | 90,80 | 15,10 | 18,30 | 34,90 | 22.0001.0229 |
| 82,55 | 3,250 | 82,55 | 82,70 | 91,10 | 17,50 | 22,20 | 31,80 | 22.0001.0230 |
| 84,07 | 3,310 | 84,00 | 84,15 | 93,70 | 20,60 | 25,40 | 34,90 | 22.0001.0235 |
| 84,89 | 3,342 | 84,76 | 85,01 | 94,00 | 17,00 | 21,00 | 35,00 | 22.0001.0240 |
| 84,89 | 3,342 | 84,76 | 85,01 | 94,00 | 21,00 | 25,00 | 35,00 | 22.0001.0063 |
| 85,00 | 3,346 | 84,79 | 85,00 | 90,90 | 10,10 | 12,70 | 36,30 | 22.0001.0085 |
| 85,73 | 3,375 | 85,67 | 85,83 | 93,80 | 20,60 | 25,40 | 34,90 | 22.0001.0061 |
| 85,73 | 3,375 | 85,67 | 85,83 | 93,70 | 9,50 | 12,70 | 35,80 | 22.0001.0061 |
| 88,90 | 3,500 | 88,82 | 88,98 | 97,60 | 15,90 | 20,60 | 34,20 | 22.0001.0891 |
| 88,90 | 3,500 | 88,90 | 89,06 | 97,20 | 8,00 | 12,70 | 34,20 | 22.0001.0059 |
| 88,90 | 3,500 | 88,90 | 89,06 | 97,60 | 20,60 | 25,40 | 34,20 | 22.0001.0089 |
| 89,00 | 3,504 | 88,92 | 89,08 | 97,60 | 15,90 | 20,60 | 34,20 | 22.0001.0891 |
| 90,00 | 3,543 | 89,91 | 90,07 | 101,60 | 11,10 | 13,70 | 46,00 | 22.0001.0901 |
| 90,00 | 3,543 | 89,91 | 90,07 | 101,60 | 13,40 | 16,90 | 44,50 | 22.0001.0902 |
| 90,00 | 3,543 | 89,91 | 90,07 | 101,60 | 18,00 | 23,00 | 46,00 | 22.0001.0090 |
| 90,00 | 3,543 | 89,91 | 90,07 | 101,60 | 23,00 | 28,00 | 44,50 | 22.0001.0903 |
| 95,00 | 3,740 | 94,92 | 95,08 | 102,20 | 21,00 | 24,00 | 45,70 | 22.0001.0095 |
| 95,00 | 3,740 | 95,00 | 95,15 | 102,50 | 11,90 | 15,10 | 45,70 | 22.0001.0951 |
| 95,00 | 3,740 | 95,00 | 95,15 | 102,40 | 8,70 | 12,70 | 45,70 | 22.0001.0952 |
| 98,32 | 3,871 | 98,24 | 98,40 | 106,30 | 20,65 | 25,40 | 47,63 | 22.0001.0057 |
| 100,00 | 3,937 | 99,95 | 100,11 | 109,50 | 20,60 | 25,40 | 52,00 | 22.0001.0100 |
| 101,60 | 4,000 | 101,55 | 101,75 | 111,10 | 16,50 | 19,70 | 34,90 | 22.0001.0053 |
| 104,00 | 4,094 | 103,89 | 104,09 | 112,70 | 20,00 | 24,00 | 36,00 | 22.0001.0104 |
| 105,00 | 4,134 | 104,90 | 105,10 | 113,50 | 20,00 | 23,20 | 35,00 | 22.0001.0105 |
| 109,93 | 4,328 | 109,91 | 110,11 | 125,00 | 12,90 | 16,50 | 32,00 | 22.0001.1101 |
| 110,00 | 4,331 | 109,78 | 110,00 | 125,00 | 11,40 | 15,00 | 32,90 | 22.0001.0110 |
| 111,91 | 4,406 | 111,80 | 112,00 | 120,70 | 19,10 | 22,50 | 33,00 | 22.0001.0051 |
| 114,30 | 4,500 | 114,20 | 114,40 | 124,50 | 20,60 | 25,40 | 32,00 | 22.0001.0049 |
| 115,00 | 4,528 | 114,89 | 115,09 | 127,00 | 20,60 | 23,80 | 32,00 | 22.0001.0115 |
| 120,00 | 4,724 | 119,89 | 120,09 | 129,80 | 8,00 | 11,00 | 33,60 | 22.0001.0120 |
| 120,00 | 4,724 | 119,89 | 120,09 | 129,80 | 20,00 | 25,00 | 32,00 | 22.0001.1201 |

| Nominal shaft Ø | | Shaft Ø range (mm) | | ØD (±1,6) | B1 (±0,8) | B2 (±0,8) | z | Code |
|-----------------|-------|--------------------|--------|--------------|--------------|--------------|-------|---------------------|
| mm | in | Min. | Max. | | | | | |
| 122,00 | 4,803 | 121,90 | 122,10 | 131,50 | 20,00 | 24,00 | 32,00 | 22.0001.0122 |
| 123,00 | 4,843 | 122,91 | 123,11 | 132,80 | 20,00 | 25,00 | 31,60 | 22.0001.0123 |
| 125,00 | 4,921 | 124,89 | 125,10 | 137,20 | 10,00 | 14,00 | 36,50 | 22.0001.0125 |
| 125,00 | 4,921 | 124,89 | 125,10 | 137,20 | 26,00 | 32,00 | 36,50 | 22.0001.1251 |
| 127,00 | 5,000 | 126,95 | 127,15 | 137,20 | 17,50 | 22,20 | 36,50 | 22.0001.1272 |
| 127,00 | 5,000 | 126,95 | 127,15 | 136,90 | 20,60 | 25,40 | 36,50 | 22.0001.1273 |
| 127,00 | 5,000 | 126,95 | 127,15 | 137,20 | 13,70 | 17,30 | 36,50 | 22.0001.1274 |
| 129,90 | 5,114 | 129,79 | 130,00 | 139,50 | 19,10 | 23,80 | 30,00 | 22.0001.0048 |
| 130,18 | 5,125 | 129,97 | 130,18 | 139,50 | 22,00 | 25,30 | 32,50 | 22.0001.0047 |
| 134,95 | 5,313 | 134,80 | 135,00 | 145,70 | 20,50 | 25,40 | 31,80 | 22.0001.0046 |
| 140,00 | 5,512 | 139,90 | 140,11 | 151,00 | 20,50 | 25,40 | 31,80 | 22.0001.0140 |
| 145,00 | 5,709 | 144,75 | 145,00 | 154,90 | 19,10 | 22,20 | 46,00 | 22.0001.0145 |
| 150,00 | 5,906 | 149,75 | 150,01 | 159,00 | 26,00 | 30,00 | 32,50 | 22.0001.0150 |
| 154,00 | 6,063 | 153,87 | 154,13 | 161,90 | 26,00 | 30,00 | 33,00 | 22.0001.0154 |
| 154,86 | 6,097 | 154,75 | 155,00 | 167,00 | 26,00 | 30,00 | 33,00 | 22.0001.0044 |
| 160,00 | 6,299 | 159,74 | 160,00 | 171,40 | 25,40 | 31,80 | 35,00 | 22.0001.0160 |
| 165,10 | 6,500 | 164,97 | 165,23 | 177,80 | 25,40 | 31,80 | 35,00 | 22.0001.0042 |
| 180,01 | 7,087 | 179,75 | 180,01 | 190,50 | 33,00 | 38,00 | 44,50 | 22.0001.0039 |
| 190,50 | 7,500 | 190,37 | 190,63 | 200,00 | 20,60 | 25,40 | 31,80 | 22.0001.0037 |
| 200,03 | 7,875 | 199,87 | 200,13 | 212,70 | 34,50 | 38,10 | 44,50 | 22.0001.0034 |

List is not exhaustive. For any special requests, please contact us.

End caps

Description

Static cap aim at sealing boreholes in gearbox housings, motors, pumps, motoreducers...

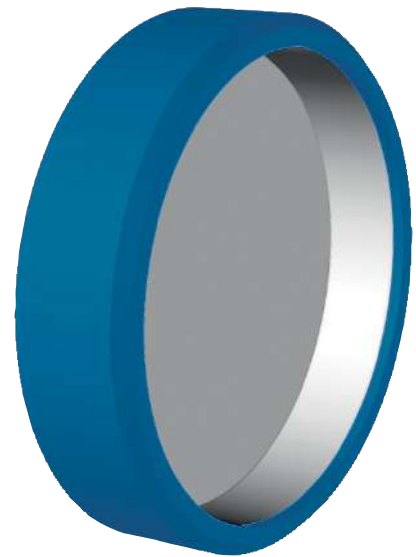
Techné caps are full or half-covered with rubber. Rubber is bonded on the metal surface.

Characteristics

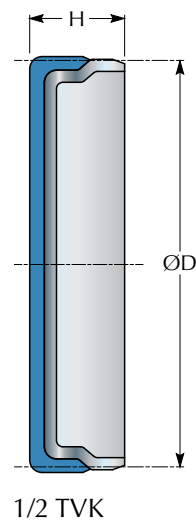
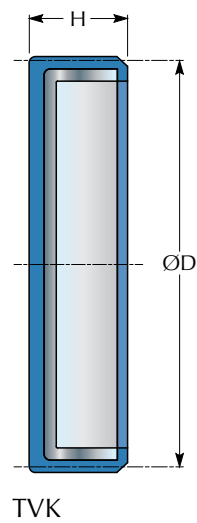
- Metal cap bonded with rubber
- Tolerances of outside diameter acc. to DIN 3760 / ISO 6194 (see Technical instructions page 126)
- Easy fitting with a hydraulic press (recommended) or with a hammer
- Housing tolerance from $\text{Ø}19$ to $\text{Ø}240$: H8

Materials

- Metal cap: steel (standard) / Stainless steel AISI 304 (on request)
- Rubber: NBR / FKM



Dimensional list



| ØOD | H | Type | Material | Item no. |
|-----|-----|----------|----------|---------------------|
| 19 | 5,5 | TVK | NBR | 22.5000.1955 |
| 19 | 7 | TVK | NBR | 22.5000.0197 |
| 22 | 5 | 1/2E TVK | NBR | 22.5310.0225 |
| 22 | 6 | TVK | NBR | 22.5000.0226 |
| 25 | 4 | 1/2E TVK | NBR | 22.5310.0254 |
| 26 | 6 | 1/2E TVK | NBR | 22.5310.0266 |
| 28 | 4 | TVK | NBR | 22.5000.0284 |
| 28 | 7 | TVK | NBR | 22.5000.0287 |
| 28 | 7 | 1/2E TVK | NBR | 22.5310.0287 |
| 30 | 6 | TVK | NBR | 22.5000.0306 |
| 30 | 8 | TVK | NBR | 22.5000.0308 |
| 30 | 8 | 1/2E TVK | NBR | 22.5310.0308 |
| 32 | 7 | TVK | NBR | 22.5000.0327 |
| 32 | 8 | 1/2E TVK | NBR | 22.5310.0328 |
| 32 | 9,5 | TVK | NBR | 22.5000.3295 |
| 35 | 5 | TVK | NBR | 22.5000.0355 |
| 35 | 6,5 | 1/2E TVK | NBR | 22.5310.0356 |
| 35 | 7 | TVK | NBR | 22.5000.0357 |
| 35 | 8 | TVK | NBR | 22.5000.0358 |
| 37 | 5 | TVK | NBR | 22.5000.0037 |
| 37 | 7 | TVK | NBR | 22.5000.0377 |
| 37 | 7 | 1/2E TVK | NBR | 22.5310.0377 |
| 37 | 10 | TVK | NBR | 22.5000.3710 |
| 40 | 7 | TVK | FKM | 22.5500.0407 |
| 40 | 7 | 1/2E TVK | NBR | 22.5310.0407 |
| 40 | 7 | TVK | NBR | 22.5000.0407 |
| 40 | 14 | TVK | NBR | 22.5000.4014 |
| 42 | 6 | 1/2E TVK | NBR | 22.5310.0426 |
| 42 | 7 | TVK | NBR | 22.5000.0427 |
| 42 | 7 | 1/2E TVK | NBR | 22.5310.0427 |

| ØOD | H | Type | Material | Item no. |
|-----|-----|----------|----------|---------------------|
| 45 | 7 | TVK | NBR | 22.5000.0457 |
| 47 | 4 | TVK | NBR | 22.5000.0474 |
| 47 | 7 | 1/2E TVK | NBR | 22.5310.0477 |
| 47 | 7 | TVK | NBR | 22.5000.0477 |
| 47 | 8 | TVK | NBR | 22.5000.0478 |
| 47 | 8 | 1/2E TVK | NBR | 22.5310.0478 |
| 47 | 10 | TVK | NBR | 22.5000.4710 |
| 50 | 7 | TVK | NBR | 22.5000.0507 |
| 50 | 7 | 1/2E TVK | NBR | 22.5310.0507 |
| 50 | 10 | TVK | NBR | 22.5000.5010 |
| 50 | 14 | TVK | NBR | 22.5000.5014 |
| 52 | 6,5 | TVK | NBR | 22.5000.5265 |
| 52 | 6,5 | 1/2E TVK | NBR | 22.5310.0526 |
| 52 | 6,5 | TVK | NBR | 22.5000.0526 |
| 52 | 10 | TVK | NBR | 22.5000.5210 |
| 55 | 8 | 1/2E TVK | NBR | 22.5310.0558 |
| 55 | 10 | TVK | NBR | 22.5000.5510 |
| 60 | 7 | TVK | NBR | 22.5000.0607 |
| 60 | 7 | 1/2E TVK | NBR | 22.5310.0607 |
| 60 | 8 | TVK | NBR | 22.5000.6080 |
| 60 | 8 | 1/2E TVK | NBR | 22.5310.0608 |
| 60 | 10 | TVK | NBR | 22.5000.6010 |
| 60 | 10 | 1/2E TVK | NBR | 22.5310.0601 |
| 62 | 7 | TVK | NBR | 22.5000.0627 |
| 62 | 7 | TVK | NBR | 22.5000.0038 |
| 62 | 8 | TVK | NBR | 22.5000.0628 |
| 62 | 8 | 1/2E TVK | NBR | 22.5310.0628 |
| 62 | 10 | TVK | NBR | 22.5000.6210 |
| 62 | 12 | TVK | NBR | 22.5000.6212 |
| 65 | 8 | TVK | NBR | 22.5000.0658 |
| 65 | 8 | 1/2E TVK | NBR | 22.5310.0658 |
| 65 | 10 | TVK | NBR | 22.5000.6510 |
| 68 | 8 | TVK | NBR | 22.5000.0688 |
| 68 | 8 | 1/2E TVK | NBR | 22.5310.0688 |
| 68 | 8,5 | TVK | NBR | 22.5000.6885 |
| 70 | 8 | 1/2E TVK | NBR | 22.5310.0708 |
| 70 | 10 | TVK | NBR | 22.5000.7010 |
| 72 | 7 | TVK | NBR | 22.5000.0727 |
| 72 | 9 | TVK | NBR | 22.5000.0729 |
| 72 | 9 | TVK | FKM | 22.5500.0729 |
| 72 | 9 | 1/2E TVK | NBR | 22.5310.0729 |
| 72 | 10 | TVK | NBR | 22.5000.7210 |
| 75 | 7 | TVK | NBR | 22.5000.7507 |
| 75 | 7 | 1/2E TVK | NBR | 22.5310.0757 |
| 75 | 12 | TVK | NBR | 22.5000.7512 |
| 80 | 7 | TVK | NBR | 22.5000.0807 |
| 80 | 10 | TVK | NBR | 22.5000.8010 |

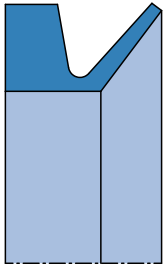
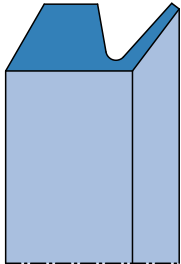
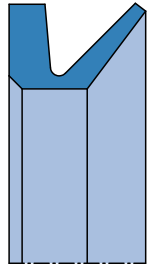
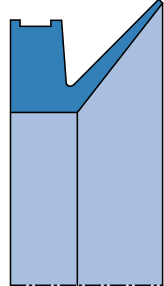
| ØOD | H | Type | Material | Item no. |
|-----|----|----------|----------|---------------------|
| 80 | 12 | TVK | NBR | 22.5000.8012 |
| 80 | 12 | 1/2E TVK | NBR | 22.5310.0801 |
| 85 | 10 | TVK | NBR | 22.5000.8510 |
| 85 | 12 | TVK | NBR | 22.5000.8512 |
| 85 | 12 | 1/2E TVK | NBR | 22.5310.0851 |
| 90 | 8 | TVK | NBR | 22.5000.0908 |
| 90 | 10 | TVK | NBR | 22.5000.9010 |
| 90 | 12 | TVK | NBR | 22.5000.9012 |
| 90 | 12 | 1/2E TVK | NBR | 22.5310.0901 |
| 92 | 10 | TVK | NBR | 22.5000.9210 |
| 95 | 10 | TVK | NBR | 22.5000.9510 |
| 100 | 10 | TVK | NBR | 22.5000.0110 |
| 100 | 12 | TVK | NBR | 22.5000.0112 |
| 100 | 12 | 1/2E TVK | NBR | 22.5310.1001 |
| 105 | 10 | TVK | NBR | 22.5000.0105 |
| 110 | 10 | TVK | NBR | 22.5000.1110 |
| 110 | 12 | TVK | NBR | 22.5000.1112 |
| 110 | 12 | 1/2E TVK | NBR | 22.5310.1101 |
| 115 | 12 | 1/2E TVK | NBR | 22.5310.1151 |
| 120 | 12 | TVK | NBR | 22.5000.0120 |
| 120 | 12 | 1/2E TVK | NBR | 22.5310.1201 |
| 125 | 12 | TVK | NBR | 22.5000.1251 |
| 125 | 12 | 1/2E TVK | NBR | 22.5310.1251 |
| 130 | 12 | TVK | NBR | 22.5000.1312 |
| 130 | 12 | 1/2E TVK | NBR | 22.5310.1301 |
| 140 | 15 | TVK | NBR | 22.5000.1415 |
| 150 | 15 | TVK | NBR | 22.5000.1515 |
| 150 | 15 | 1/2E TVK | NBR | 22.5310.1501 |
| 160 | 15 | TVK | NBR | 22.5000.1615 |
| 160 | 15 | 1/2E TVK | NBR | 22.5310.1601 |
| 170 | 15 | TVK | NBR | 22.5000.1715 |
| 180 | 12 | TVK | NBR | 22.5000.1812 |
| 200 | 13 | TVK | NBR | 22.5000.2001 |
| 200 | 13 | 1/2E TVK | NBR | 22.5310.2001 |
| 220 | 15 | TVK | NBR | 22.5000.2201 |
| 225 | 14 | TVK | NBR | 22.5000.2251 |
| 225 | 14 | 1/2E TVK | NBR | 22.5310.2251 |
| 230 | 14 | TVK | NBR | 22.5000.0230 |
| 240 | 15 | TVK | NBR | 22.5000.2401 |
| 240 | 15 | 1/2E TVK | NBR | 22.5310.2401 |

V-Seals

Description

V-seal profile is designed for keeping dirt, dust, oil and water splashes or from ingressing into a system. V-seals are very often used either to protect a bearing or a primary seal, mostly rotary shaft seals.

There are 4 standard profiles depending on groove design:

| VA | VS | VL | VE |
|---|---|---|---|
|  |  |  |  |
| <p>This profile is the most standard one. It can be used in with a back-flange to ensure a better axial positioning on the shaft.</p> <p>VA-Seals are available for shafts from 3 mm to 2000 mm diameter.</p> | <p>The pyramidal-shaped profile of VS grants a good axial positioning on the shaft, preventing from moving backwards. The axial position can even be improved using a retaining circlip.</p> <p>VS-Seals are available for small diameters' shafts from 5 mm to 200 mm.</p> | <p>This compact profile is available for big diameters' shafts from 105 mm to 875 mm. For bigger sizes, please contact Techné sales department.</p> | <p>VE-Seals are mainly used in applications with big diameters' shafts from 320 mm to 2200 mm. An additionning clamping band can be set up on its outside diameter</p> <p>For bigger sizes, please contact Techné sales department.</p> |

Advantages

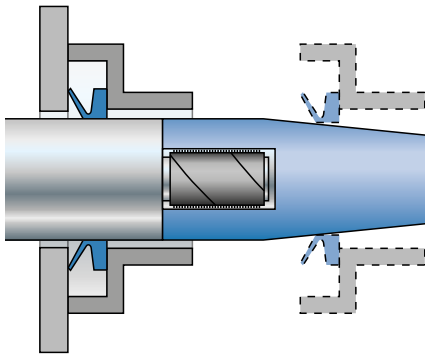
- Easy assembly due to their high stretchability
- Accepts large shaft manufacturing tolerances and various shaft roughnesses.
- V-seals accept large shaft misalignment and run-out
- Low contact pressure on counterface thanks to the flexible lip, preventing lip and counterface from abrasion and allowing reduced power losses.
- For high rotation speed applications, an additional coating (T-Coat) may even improve the V-seal sliding properties.
- Economic sealing solution

Limitations

- Cannot be used in applications with pressure differentials
- Not appropriate for counterface with flatness defect (for instance $> 0,4$ mm for counterface diameter 100 mm)
- Must be handled carefully (thin lip)

Fitting

V-seals assembly is optimally made with the help of an assembly tool, granting an appropriate axial distance B.



Tension ratio

V-Seals are fitted in tension on the shaft. This ensures a good maintaining on the shaft. It is then necessary to select the appropriate seal nominal diameter. Please refer to our dimensional lists hereafter.

Roughness

Roughness of the seals' counterface is described in the table below:

| Medium | Rotation speed (m/s) | Counterface roughness (Ra) |
|----------------------------|-------------------------|-------------------------------|
| Durt and dirt | < 1 | 2,0 |
| Dust, durt, water splashes | 1-5 | 1,6-2,0 |
| Dust, durt, oil | 5-10 | 0,8-1,6 |
| and water splashes | > 10 | 0,4-0,8 |

Fitting with back-flange

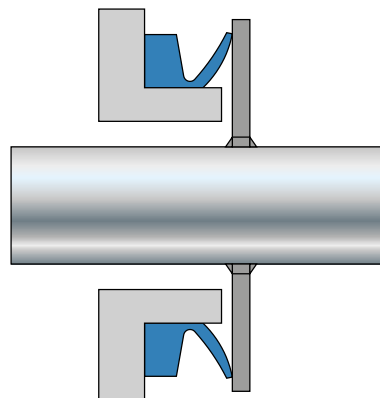
For high rotation speeds, especially when $> 5\text{m/s}$, Techné recommends to add a back-flange or a circlip to support the V-Seal and to prevent it to move backwards. Flange dimension depends on the selected V-Seal profile. For dimensioning help, please contact Techné Technical department.

Fitting with additional clamping band

Mostly for bigger sizes or high rotating speeds, especially when $> 10\text{ m/s}$, Techné recommends to select V-Seal type VE and to fix it on the shaft thanks to an additional radial clamping band.

Fitting with a rotating counterface

To avoid V-seals from moving backwards due to centrifugal forces when used with high rotation speed, V-seals can be used stationarily. The counterpart is then fitted on the shaft and rotates with it.



Applications

Depending on customer's application, corresponding V-seal profile can be selected:

- VA: most common type.
Can be used in many application, i.e. in combination with bearings, in electrical motors, gearboxes, house appliances ...
- VS: fitted tightened on the shaft for high vibration applications , i.e. farming machines, trucks ...
- VL: designed for reduced fitting spaces
- VE: designed with a big lip for heavy-duty applications and big sized industrial machines (rolling mills, paper making machines, ...)

Coatings

For high-end applications, where a very low friction force is required, Techné offers a full range of coatings, adapted to customers' applications and counterfaces' materials.

Some application examples:

- noise reduction in house appliances
- performance increase in competition sport equipments
- extended service life time for industrial machines
- anti stick-slip effect
- ...

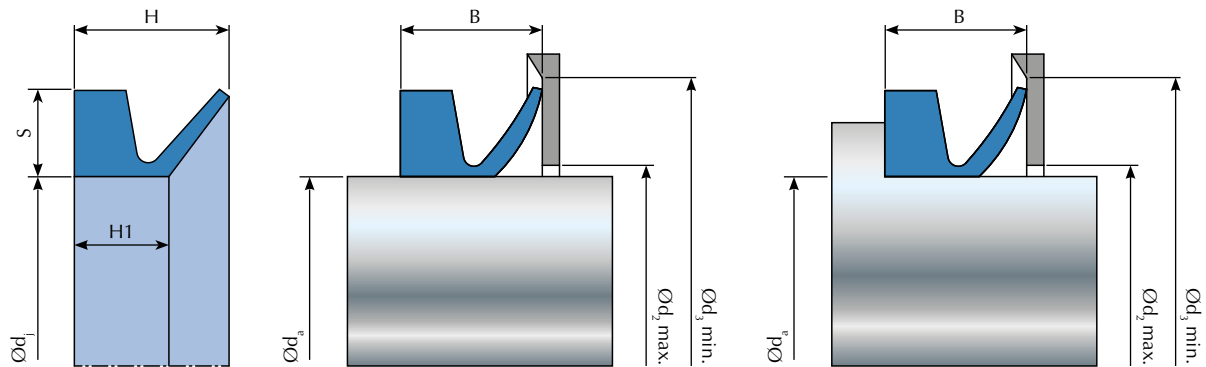
Materials

V-Seals are available in several materials:

- NBR: Standard material.
Techné mainly choses ozon resistant NBR compounds
- FKM: For high temperature applications and contacts with chemicals.
- EPDM: mostly for food applications with FDA grade.

Dimensional list

⌀ VA



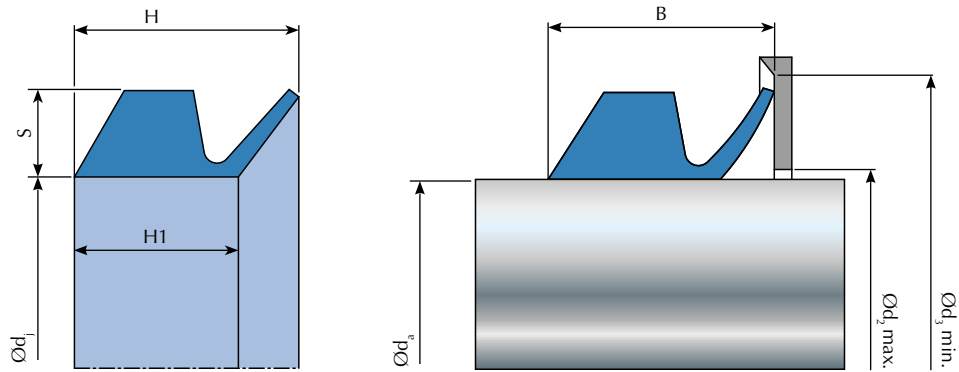
| Type | Ød _a (shaft) | | Ød _i (seal) | S | H | H ₁ | d ₂ | d ₃ | B | Material | Code |
|-------|-------------------------|------|------------------------|-----|-----|----------------|--------------------|---------------------|----------|----------|---------------------|
| | Min. | Max. | | | | | | | | | |
| VA 3 | 2,7 | 3,5 | 2,5 | 2,5 | 3 | 2,1 | d _a + 1 | d _a + 4 | 2,5 ±0,3 | NBR | 08.0801.0003 |
| VA 3 | 2,7 | 3,5 | 3,2 | 2,5 | 3 | 2,1 | d _a + 1 | d _a + 4 | 2,5 ±0,3 | FKM | 08.0811.0003 |
| VA 4 | 3,5 | 4,5 | 3,2 | 2 | 3,7 | 2,4 | d _a + 1 | d _a + 6 | 3,0 ±0,4 | FKM | 08.0811.0004 |
| VA 4 | 3,5 | 4,5 | 3,2 | 2 | 3,7 | 2,4 | d _a + 1 | d _a + 6 | 3,0 ±0,4 | NBR | 08.0801.0451 |
| VA 5 | 4,5 | 5,5 | 4 | 2 | 3,7 | 2,4 | d _a + 1 | d _a + 6 | 3,0 ±0,4 | FKM | 08.0811.0280 |
| VA 5 | 4,5 | 5,5 | 4 | 2 | 3,7 | 2,4 | d _a + 1 | d _a + 6 | 3,0 ±0,4 | NBR | 08.0801.0004 |
| VA 6 | 5,5 | 6,5 | 5 | 2 | 3,7 | 2,4 | d _a + 1 | d _a + 6 | 3,0 ±0,4 | FKM | 08.0811.0006 |
| VA 6 | 5,5 | 6,5 | 5 | 2 | 3,7 | 2,4 | d _a + 1 | d _a + 6 | 3,0 ±0,4 | NBR | 08.0801.0005 |
| VA 7 | 6,5 | 8 | 6 | 2 | 3,7 | 2,4 | d _a + 1 | d _a + 6 | 3,0 ±0,4 | FKM | 08.0811.0007 |
| VA 7 | 6,5 | 8 | 6 | 2 | 3,7 | 2,4 | d _a + 1 | d _a + 6 | 3,0 ±0,4 | NBR | 08.0801.0010 |
| VA 8 | 8 | 9,5 | 7 | 2 | 3,7 | 2,4 | d _a + 1 | d _a + 6 | 3,0 ±0,4 | NBR FDA | 08.0804.0014 |
| VA 8 | 8 | 9,5 | 7 | 2 | 3,7 | 2,4 | d _a + 1 | d _a + 6 | 3,0 ±0,4 | FKM | 08.0811.0008 |
| VA 8 | 8 | 9,5 | 7 | 2 | 3,7 | 2,4 | d _a + 1 | d _a + 6 | 3,0 ±0,4 | NBR | 08.0801.0015 |
| VA 8 | 8 | 9,5 | 7 | 2 | 3,7 | 2,4 | d _a + 1 | d _a + 6 | 3,0 ±0,4 | EPDM | 08.0821.0088 |
| VA 10 | 9,5 | 11,5 | 9 | 3 | 5,5 | 3,4 | d _a + 2 | d _a + 9 | 4,5 ±0,6 | FKM | 08.0811.0022 |
| VA 10 | 9,5 | 11,5 | 9 | 3 | 5,5 | 3,4 | d _a + 2 | d _a + 9 | 4,5 ±0,6 | NBR | 08.0801.0020 |
| VA 12 | 11,5 | 12,5 | 10,5 | 3 | 5,5 | 3,4 | d _a + 2 | d _a + 9 | 4,5 ±0,6 | FKM | 08.0811.0027 |
| VA 12 | 11,5 | 12,5 | 10,5 | 3 | 5,5 | 3,4 | d _a + 2 | d _a + 9 | 4,5 ±0,6 | NBR | 08.0801.0025 |
| VA 13 | 12,5 | 13,5 | 11,7 | 3 | 5,5 | 3,4 | d _a + 2 | d _a + 9 | 4,5 ±0,6 | FKM | 08.0811.0013 |
| VA 13 | 12,5 | 13,5 | 11,7 | 3 | 5,5 | 3,4 | d _a + 2 | d _a + 9 | 4,5 ±0,6 | NBR | 08.0801.0013 |
| VA 13 | 12,5 | 13,5 | 11,7 | 3 | 5,5 | 3,4 | d _a + 2 | d _a + 9 | 4,5 ±0,6 | NBR FDA | 08.0804.0013 |
| VA 14 | 13,5 | 15,5 | 12,5 | 3 | 5,5 | 3,4 | d _a + 2 | d _a + 9 | 4,5 ±0,6 | FKM | 08.0811.0014 |
| VA 14 | 13,5 | 15,5 | 12,5 | 3 | 5,5 | 3,4 | d _a + 2 | d _a + 9 | 4,5 ±0,6 | NBR | 08.0801.0030 |
| VA 16 | 15,5 | 17,5 | 14 | 3 | 5,5 | 3,4 | d _a + 2 | d _a + 9 | 4,5 ±0,6 | FKM | 08.0811.0016 |
| VA 16 | 15,5 | 17,5 | 14 | 3 | 5,5 | 3,4 | d _a + 2 | d _a + 9 | 4,5 ±0,6 | NBR FDA | 08.0804.0016 |
| VA 16 | 15,5 | 17,5 | 14 | 3 | 5,5 | 3,4 | d _a + 2 | d _a + 9 | 4,5 ±0,6 | NBR | 08.0801.0035 |
| VA 18 | 17,5 | 19 | 16 | 3 | 5,5 | 3,4 | d _a + 2 | d _a + 9 | 4,5 ±0,6 | NBR | 08.0801.0040 |
| VA 18 | 17,5 | 19 | 16 | 3 | 5,5 | 3,4 | d _a + 2 | d _a + 9 | 4,5 ±0,6 | NBR FDA | 08.0804.0018 |
| VA 18 | 17,5 | 19 | 16 | 3 | 5,5 | 3,4 | d _a + 2 | d _a + 9 | 4,5 ±0,6 | FKM | 08.0811.0181 |
| VA 20 | 19 | 21 | 18 | 4 | 7,5 | 4,7 | d _a + 2 | d _a + 12 | 6,0 ±0,8 | NBR | 08.0801.0045 |

| Type | Ød _a (shaft) | | Ød _s (seal) | S | H | H ₁ | d ₂ | d ₃ | B | Material | Code |
|-------|-------------------------|------|------------------------|---|-----|----------------|--------------------|---------------------|----------|----------|---------------------|
| | Min. | Max. | | | | | | | | | |
| VA 20 | 19 | 21 | 18 | 4 | 7,5 | 4,7 | d _a + 2 | d _a + 12 | 6,0 ±0,8 | FKM | 08.0811.0147 |
| VA 22 | 21 | 24 | 20 | 4 | 7,5 | 4,7 | d _a + 2 | d _a + 12 | 6,0 ±0,8 | EPDM | 08.0821.0022 |
| VA 22 | 21 | 24 | 20 | 4 | 7,5 | 4,7 | d _a + 2 | d _a + 12 | 6,0 ±0,8 | FKM | 08.0811.0465 |
| VA 22 | 21 | 24 | 20 | 4 | 7,5 | 4,7 | d _a + 2 | d _a + 12 | 6,0 ±0,8 | NBR | 08.0801.0050 |
| VA 25 | 24 | 27 | 22 | 4 | 7,5 | 4,7 | d _a + 2 | d _a + 12 | 6,0 ±0,8 | FKM | 08.0811.0057 |
| VA 25 | 24 | 27 | 22 | 4 | 7,5 | 4,7 | d _a + 2 | d _a + 12 | 6,0 ±0,8 | NBR | 08.0801.0055 |
| VA 25 | 24 | 27 | 22 | 4 | 7,5 | 4,7 | d _a + 2 | d _a + 12 | 6,0 ±0,8 | EPDM | 08.0821.0255 |
| VA 28 | 27 | 29 | 25 | 4 | 7,5 | 4,7 | d _a + 3 | d _a + 12 | 6,0 ±0,8 | FKM | 08.0811.0028 |
| VA 28 | 27 | 29 | 25 | 4 | 7,5 | 4,7 | d _a + 3 | d _a + 12 | 6,0 ±0,8 | NBR | 08.0801.0060 |
| VA 30 | 29 | 31 | 27 | 4 | 7,5 | 4,7 | d _a + 3 | d _a + 12 | 6,0 ±0,8 | FKM | 08.0811.0324 |
| VA 30 | 29 | 31 | 27 | 4 | 7,5 | 4,7 | d _a + 3 | d _a + 12 | 6,0 ±0,8 | NBR | 08.0801.0065 |
| VA 30 | 29 | 31 | 27 | 4 | 7,5 | 4,7 | d _a + 3 | d _a + 12 | 6,0 ±0,8 | NBR FDA | 08.0804.0030 |
| VA 32 | 31 | 33 | 29 | 4 | 7,5 | 4,7 | d _a + 3 | d _a + 12 | 6,0 ±0,8 | FKM | 08.0811.0032 |
| VA 32 | 31 | 33 | 29 | 4 | 7,5 | 4,7 | d _a + 3 | d _a + 12 | 6,0 ±0,8 | NBR | 08.0801.0070 |
| VA 32 | 31 | 33 | 29 | 4 | 7,5 | 4,7 | d _a + 3 | d _a + 12 | 6,0 ±0,8 | NBR FDA | 08.0804.0032 |
| VA 35 | 33 | 36 | 31 | 4 | 7,5 | 4,7 | d _a + 3 | d _a + 12 | 6,0 ±0,8 | NBR | 08.0801.0075 |
| VA 35 | 33 | 36 | 31 | 4 | 7,5 | 4,7 | d _a + 3 | d _a + 12 | 6,0 ±0,8 | FKM | 08.0811.0563 |
| VA 38 | 36 | 38 | 34 | 4 | 7,5 | 4,7 | d _a + 3 | d _a + 12 | 6,0 ±0,8 | FKM | 08.0811.0038 |
| VA 38 | 36 | 38 | 34 | 4 | 7,5 | 4,7 | d _a + 3 | d _a + 12 | 6,0 ±0,8 | NBR | 08.0801.0080 |
| VA 40 | 38 | 43 | 36 | 5 | 9 | 5,5 | d _a + 3 | d _a + 15 | 7,0 ±1,0 | EPDM | 08.0821.0023 |
| VA 40 | 38 | 43 | 36 | 5 | 9 | 5,5 | d _a + 3 | d _a + 15 | 7,0 ±1,0 | NBR | 08.0801.0085 |
| VA 40 | 38 | 43 | 36 | 5 | 9 | 5,5 | d _a + 3 | d _a + 15 | 7,0 ±1,0 | NBR FDA | 08.0804.0040 |
| VA 40 | 38 | 43 | 36 | 5 | 9 | 5,5 | d _a + 3 | d _a + 15 | 7,0 ±1,0 | FKM | 08.0811.0574 |
| VA 45 | 43 | 48 | 40 | 5 | 9 | 5,5 | d _a + 3 | d _a + 15 | 7,0 ±1,0 | EPDM FDA | 08.0826.0045 |
| VA 45 | 43 | 48 | 40 | 5 | 9 | 5,5 | d _a + 3 | d _a + 15 | 7,0 ±1,0 | FKM | 08.0811.0011 |
| VA 45 | 43 | 48 | 40 | 5 | 9 | 5,5 | d _a + 3 | d _a + 15 | 7,0 ±1,0 | NBR | 08.0801.0090 |
| VA 45 | 43 | 48 | 40 | 5 | 9 | 5,5 | d _a + 3 | d _a + 15 | 7,0 ±1,0 | EPDM | 08.0821.0450 |
| VA 50 | 48 | 53 | 45 | 5 | 9 | 5,5 | d _a + 3 | d _a + 15 | 7,0 ±1,0 | EPDM FDA | 08.0826.0050 |
| VA 50 | 48 | 53 | 45 | 5 | 9 | 5,5 | d _a + 3 | d _a + 15 | 7,0 ±1,0 | NBR | 08.0801.0095 |
| VA 50 | 48 | 53 | 45 | 5 | 9 | 5,5 | d _a + 3 | d _a + 15 | 7,0 ±1,0 | EPDM | 08.0821.0050 |
| VA 50 | 48 | 53 | 45 | 5 | 9 | 5,5 | d _a + 3 | d _a + 15 | 7,0 ±1,0 | FKM | 08.0811.0236 |
| VA 50 | 48 | 53 | 45 | 5 | 9 | 5,5 | d _a + 3 | d _a + 15 | 7,0 ±1,0 | NBR | 08.0801.8001 |
| VA 55 | 53 | 58 | 49 | 5 | 9 | 5,5 | d _a + 3 | d _a + 15 | 7,0 ±1,0 | FKM | 08.0811.1912 |
| VA 55 | 53 | 58 | 49 | 5 | 9 | 5,5 | d _a + 3 | d _a + 15 | 7,0 ±1,0 | NBR | 08.0801.0100 |
| VA 60 | 58 | 63 | 54 | 5 | 9 | 5,5 | d _a + 3 | d _a + 15 | 7,0 ±1,0 | FKM | 08.0811.0658 |
| VA 60 | 58 | 63 | 54 | 5 | 9 | 5,5 | d _a + 3 | d _a + 15 | 7,0 ±1,0 | EPDM | 08.0821.0600 |
| VA 60 | 58 | 63 | 54 | 5 | 9 | 5,5 | d _a + 3 | d _a + 15 | 7,0 ±1,0 | NBR | 08.0801.0105 |
| VA 65 | 63 | 68 | 58 | 5 | 9 | 5,5 | d _a + 3 | d _a + 15 | 7,0 ±1,0 | EPDM FDA | 08.0826.0065 |
| VA 65 | 63 | 68 | 58 | 5 | 9 | 5,5 | d _a + 3 | d _a + 15 | 7,0 ±1,0 | FKM | 08.0811.0111 |
| VA 65 | 63 | 68 | 58 | 5 | 9 | 5,5 | d _a + 3 | d _a + 15 | 7,0 ±1,0 | NBR | 08.0801.0110 |
| VA 70 | 68 | 73 | 63 | 6 | 11 | 6,8 | d _a + 4 | d _a + 18 | 9,0 ±1,2 | FKM | 08.0811.0976 |
| VA 70 | 68 | 73 | 63 | 6 | 11 | 6,8 | d _a + 4 | d _a + 18 | 9,0 ±1,2 | NBR | 08.0801.0115 |
| VA 75 | 73 | 78 | 67 | 6 | 11 | 6,8 | d _a + 4 | d _a + 18 | 9,0 ±1,2 | EPDM | 08.0821.0075 |
| VA 75 | 73 | 78 | 67 | 6 | 11 | 6,8 | d _a + 4 | d _a + 18 | 9,0 ±1,2 | NBR | 08.0801.0120 |
| VA 75 | 73 | 78 | 67 | 6 | 11 | 6,8 | d _a + 4 | d _a + 18 | 9,0 ±1,2 | FKM | 08.0811.0750 |
| VA 80 | 78 | 83 | 72 | 6 | 11 | 6,8 | d _a + 4 | d _a + 18 | 9,0 ±1,2 | EPDM | 08.0821.0080 |

| Type | Ød _a (shaft) | | Ød _i (seal) | S | H | H ₁ | d ₂ | d ₃ | B | Material | Code |
|--------|-------------------------|------|------------------------|----|------|----------------|---------------------|---------------------|-----------|----------|---------------------|
| | Min. | Max. | | | | | | | | | |
| VA 80 | 78 | 83 | 72 | 6 | 11 | 6,8 | d _a + 4 | d _a + 18 | 9,0 ±1,2 | FKM | 08.0811.0258 |
| VA 80 | 78 | 83 | 72 | 6 | 11 | 6,8 | d _a + 4 | d _a + 18 | 9,0 ±1,2 | NBR | 08.0801.0125 |
| VA 80 | 78 | 83 | 72 | 6 | 11 | 6,8 | d _a + 4 | d _a + 18 | 9,0 ±1,2 | NBR | 08.0801.0007 |
| VA 85 | 83 | 88 | 76 | 6 | 11 | 6,8 | d _a + 4 | d _a + 18 | 9,0 ±1,2 | EPDM | 08.0821.0856 |
| VA 85 | 83 | 88 | 76 | 6 | 11 | 6,8 | d _a + 4 | d _a + 18 | 9,0 ±1,2 | NBR | 08.0801.0130 |
| VA 85 | 83 | 88 | 76 | 6 | 11 | 6,8 | d _a + 4 | d _a + 18 | 9,0 ±1,2 | FKM | 08.0811.9874 |
| VA 85 | 83 | 88 | 76 | 6 | 11 | 6,8 | d _a + 4 | d _a + 18 | 9,0 ±1,2 | EPDM | 08.0821.8560 |
| VA 90 | 88 | 93 | 81 | 6 | 11 | 6,8 | d _a + 4 | d _a + 18 | 9,0 ±1,2 | NBR | 08.0801.0135 |
| VA 90 | 88 | 93 | 81 | 6 | 11 | 6,8 | d _a + 4 | d _a + 18 | 9,0 ±1,2 | FKM | 08.0811.0900 |
| VA 95 | 93 | 98 | 85 | 6 | 11 | 6,8 | d _a + 4 | d _a + 18 | 9,0 ±1,2 | EPDM | 08.0821.0095 |
| VA 95 | 93 | 98 | 85 | 6 | 11 | 6,8 | d _a + 4 | d _a + 18 | 9,0 ±1,2 | FKM | 08.0811.0950 |
| VA 95 | 93 | 98 | 85 | 6 | 11 | 6,8 | d _a + 4 | d _a + 18 | 9,0 ±1,2 | NBR | 08.0801.0140 |
| VA 100 | 98 | 105 | 90 | 6 | 11 | 6,8 | d _a + 4 | d _a + 18 | 9,0 ±1,2 | FKM | 08.0811.5644 |
| VA 100 | 98 | 105 | 90 | 6 | 11 | 6,8 | d _a + 4 | d _a + 18 | 9,0 ±1,2 | NBR | 08.0801.0145 |
| VA 100 | 98 | 105 | 90 | 6 | 11 | 6,8 | d _a + 4 | d _a + 18 | 9,0 ±1,2 | EPDM FDA | 08.0826.0100 |
| VA 110 | 105 | 115 | 99 | 7 | 12,8 | 7,9 | d _a + 4 | d _a + 21 | 10,5 ±1,6 | FKM | 08.0811.0254 |
| VA 110 | 105 | 115 | 99 | 7 | 12,8 | 7,9 | d _a + 4 | d _a + 21 | 10,5 ±1,6 | NBR | 08.0801.0150 |
| VA 110 | 105 | 115 | 99 | 7 | 12,8 | 7,9 | d _a + 4 | d _a + 21 | 10,5 ±1,6 | EPDM | 08.0821.1106 |
| VA 120 | 115 | 125 | 108 | 7 | 12,8 | 7,9 | d _a + 4 | d _a + 21 | 10,5 ±1,6 | FKM | 08.0811.1200 |
| VA 120 | 115 | 125 | 108 | 7 | 12,8 | 7,9 | d _a + 4 | d _a + 21 | 10,5 ±1,6 | NBR | 08.0801.0155 |
| VA 130 | 125 | 135 | 117 | 7 | 12,8 | 7,9 | d _a + 4 | d _a + 21 | 10,5 ±1,6 | NBR FDA | 08.0804.0015 |
| VA 130 | 125 | 135 | 117 | 7 | 12,8 | 7,9 | d _a + 4 | d _a + 21 | 10,5 ±1,6 | NBR | 08.0801.0160 |
| VA 130 | 125 | 135 | 117 | 7 | 12,8 | 7,9 | d _a + 4 | d _a + 21 | 10,5 ±1,6 | FKM | 08.0811.9871 |
| VA 140 | 135 | 145 | 126 | 7 | 12,8 | 7,9 | d _a + 4 | d _a + 21 | 10,5 ±1,6 | NBR | 08.0801.0165 |
| VA 140 | 135 | 145 | 126 | 7 | 12,8 | 7,9 | d _a + 4 | d _a + 21 | 10,5 ±1,6 | FKM | 08.0811.1185 |
| VA 150 | 145 | 155 | 135 | 7 | 12,8 | 7,9 | d _a + 4 | d _a + 21 | 10,5 ±1,6 | FKM | 08.0811.0151 |
| VA 150 | 145 | 155 | 135 | 7 | 12,8 | 7,9 | d _a + 4 | d _a + 21 | 10,5 ±1,6 | NBR | 08.0801.0170 |
| VA 160 | 155 | 165 | 144 | 8 | 14,5 | 9 | d _a + 5 | d _a + 24 | 12,0 ±1,8 | NBR | 08.0801.0175 |
| VA 160 | 155 | 165 | 144 | 8 | 14,5 | 9 | d _a + 5 | d _a + 24 | 12,0 ±1,8 | FKM | 08.0811.0645 |
| VA 170 | 165 | 175 | 153 | 8 | 14,5 | 9 | d _a + 5 | d _a + 24 | 12,0 ±1,8 | FKM | 08.0811.0185 |
| VA 170 | 165 | 175 | 153 | 8 | 14,5 | 9 | d _a + 5 | d _a + 24 | 12,0 ±1,8 | EPDM | 08.0821.0170 |
| VA 170 | 165 | 175 | 153 | 8 | 14,5 | 9 | d _a + 5 | d _a + 24 | 12,0 ±1,8 | NBR | 08.0801.0180 |
| VA 180 | 175 | 185 | 162 | 8 | 14,5 | 9 | d _a + 5 | d _a + 24 | 12,0 ±1,8 | NBR | 08.0801.0190 |
| VA 180 | 175 | 185 | 162 | 8 | 14,5 | 9 | d _a + 5 | d _a + 24 | 12,0 ±1,8 | FKM | 08.0811.0018 |
| VA 190 | 185 | 195 | 171 | 8 | 14,5 | 9 | d _a + 5 | d _a + 24 | 12,0 ±1,8 | NBR | 08.0801.0195 |
| VA 190 | 185 | 195 | 171 | 8 | 14,5 | 9 | d _a + 5 | d _a + 24 | 12,0 ±1,8 | FKM | 08.0811.6555 |
| VA 199 | 195 | 210 | 180 | 8 | 14,5 | 9 | d _a + 5 | d _a + 24 | 12,0 ±1,8 | NBR | 08.0801.0200 |
| VA 199 | 195 | 210 | 180 | 8 | 14,5 | 9 | d _a + 5 | d _a + 24 | 12,0 ±1,8 | FKM | 08.0811.0199 |
| VA 200 | 190 | 210 | 180 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,0 | NBR | 08.0801.0205 |
| VA 200 | 190 | 210 | 180 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,1 | EPDM | 08.0821.0200 |
| VA 200 | 190 | 210 | 180 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,2 | FKM | 08.0811.0201 |
| VA 200 | 190 | 210 | 180 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,3 | NBR | 08.0801.0002 |
| VA 220 | 210 | 235 | 198 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,4 | NBR | 08.0801.0210 |
| VA 220 | 210 | 235 | 198 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,5 | FKM | 08.0811.0562 |
| VA 250 | 235 | 265 | 225 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,6 | FKM | 08.0811.6554 |
| VA 250 | 235 | 265 | 225 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,7 | NBR | 08.0801.0215 |

| Type | Ød _a (shaft) | | Ød _s (seal) | S | H | H ₁ | d ₂ | d ₃ | B | Material | Code |
|---------|-------------------------|------|------------------------|----|----|----------------|---------------------|---------------------|------------|----------|---------------------|
| | Min. | Max. | | | | | | | | | |
| VA 275 | 265 | 290 | 247 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,8 | FKM | 08.0811.0243 |
| VA 275 | 265 | 290 | 247 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,9 | NBR | 08.0801.0220 |
| VA 300 | 290 | 310 | 270 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,10 | NBR | 08.0801.0225 |
| VA 300 | 290 | 310 | 270 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,11 | FKM | 08.0811.3000 |
| VA 325 | 310 | 335 | 292 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,12 | NBR | 08.0801.0226 |
| VA 325 | 310 | 335 | 292 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,13 | FKM | 08.0811.0325 |
| VA 325 | 310 | 335 | 292 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,14 | NBR | 08.0801.0325 |
| VA 350 | 335 | 365 | 315 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,15 | EPDM | 08.0821.0350 |
| VA 350 | 335 | 365 | 315 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,16 | FKM | 08.0811.0231 |
| VA 350 | 335 | 365 | 315 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,17 | NBR | 08.0801.0230 |
| VA 375 | 365 | 390 | 337 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,18 | NBR | 08.0801.0001 |
| VA 375 | 365 | 390 | 337 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,19 | FKM | 08.0811.0375 |
| VA 400 | 390 | 430 | 360 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,20 | FKM | 08.0811.0400 |
| VA 400 | 390 | 430 | 360 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,21 | NBR | 08.0801.0235 |
| VA 450 | 430 | 480 | 405 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,22 | EPDM | 08.0821.4500 |
| VA 450 | 430 | 480 | 405 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,23 | FKM | 08.0811.4500 |
| VA 450 | 430 | 480 | 405 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,24 | NBR | 08.0801.0240 |
| VA 500 | 480 | 530 | 450 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,25 | NBR | 08.0801.3221 |
| VA 500 | 480 | 530 | 450 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,26 | EPDM | 08.0821.0500 |
| VA 500 | 480 | 530 | 450 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,27 | FKM | 08.0811.0500 |
| VA 500 | 480 | 530 | 450 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,28 | NBR FDA | 08.0804.0500 |
| VA 550 | 530 | 580 | 495 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,29 | FKM | 08.0811.0550 |
| VA 550 | 530 | 580 | 495 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,30 | NBR | 08.0801.5182 |
| VA 550 | 530 | 580 | 495 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,31 | NBR | 08.0801.5500 |
| VA 600 | 580 | 630 | 540 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,32 | FKM | 08.0811.0600 |
| VA 600 | 580 | 630 | 540 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,33 | NBR | 08.0801.3254 |
| VA 650 | 630 | 665 | 600 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,34 | NBR | 08.0801.3214 |
| VA 650 | 630 | 665 | 600 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,35 | FKM | 08.0811.0650 |
| VA 700 | 665 | 705 | 630 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,36 | FKM | 08.0811.0700 |
| VA 700 | 665 | 705 | 630 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,37 | NBR | 08.0801.2215 |
| VA 725 | 705 | 745 | 670 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,38 | FKM | 08.0811.0725 |
| VA 725 | 705 | 745 | 670 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,39 | NBR | 08.0801.3215 |
| VA 750 | 745 | 785 | 705 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,40 | FKM | 08.0811.0075 |
| VA 750 | 745 | 785 | 705 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,41 | NBR | 08.0801.2195 |
| VA 750 | 745 | 785 | 705 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,42 | MVQ | 08.0831.0750 |
| VA 800 | 785 | 830 | 745 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,43 | NBR | 08.0801.9845 |
| VA 800 | 785 | 830 | 745 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,44 | NBR | 08.0801.0800 |
| VA 850 | 830 | 875 | 785 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,45 | NBR FDA | 08.0804.0850 |
| VA 850 | 830 | 875 | 785 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,46 | NBR | 08.0801.2134 |
| VA 900 | 875 | 920 | 825 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,47 | FKM | 08.0811.9000 |
| VA 900 | 875 | 920 | 825 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,48 | NBR | 08.0801.9875 |
| VA 950 | 920 | 965 | 865 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,49 | NBR | 08.0801.9841 |
| VA 1000 | 965 | 1015 | 910 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,50 | NBR | 08.0801.8888 |
| VA 1000 | 965 | 1015 | 910 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,51 | FKM | 08.0811.8888 |
| VA 1050 | 1015 | 1065 | 955 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,52 | NBR | 08.0801.1050 |
| VA 1100 | 1065 | 1115 | 1000 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,53 | NBR | 08.0801.1100 |

| Type | Ød _a (shaft) | | Ød _i (seal) | S | H | H ₁ | d ₂ | d ₃ | B | Material | Code |
|---------|-------------------------|------|------------------------|----|----|----------------|---------------------|---------------------|------------|----------|---------------------|
| | Min. | Max. | | | | | | | | | |
| VA 1150 | 1115 | 1165 | 1045 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,54 | NBR | 08.0801.1150 |
| VA 1200 | 1165 | 1215 | 1090 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,55 | FKM | 08.0811.0012 |
| VA 1200 | 1165 | 1215 | 1090 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,56 | NBR | 08.0801.1201 |
| VA 1250 | 1215 | 1270 | 1135 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,57 | NBR | 08.0801.1250 |
| VA 1250 | 1215 | 1270 | 1135 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,58 | FKM | 08.0811.1250 |
| VA 1300 | 1270 | 1320 | 1180 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,59 | FKM | 08.0811.1300 |
| VA 1300 | 1270 | 1320 | 1180 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,60 | NBR | 08.0801.1300 |
| VA 1350 | 1320 | 1370 | 1225 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,61 | NBR | 08.0801.1350 |
| VA 1400 | 1370 | 1420 | 1270 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,62 | NBR | 08.0801.1400 |
| VA 1450 | 1420 | 1470 | 1315 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,63 | NBR | 08.0801.1450 |
| VA 1450 | 1420 | 1470 | 1315 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,64 | FKM | 08.0811.1450 |
| VA 1500 | 1470 | 1520 | 1360 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,65 | NBR | 08.0801.1500 |
| VA 1550 | 1520 | 1570 | 1405 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,66 | NBR | 08.0801.1550 |
| VA 1600 | 1570 | 1620 | 1450 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,67 | NBR | 08.0801.1600 |
| VA 1650 | 1620 | 1670 | 1495 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,68 | NBR | 08.0801.1650 |
| VA 1700 | 1670 | 1720 | 1540 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,69 | NBR | 08.0801.1700 |
| VA 1750 | 1720 | 1770 | 1585 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,70 | NBR | 08.0801.1750 |
| VA 1800 | 1770 | 1820 | 1630 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,71 | NBR | 08.0801.1800 |
| VA 1850 | 1820 | 1870 | 1675 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,72 | NBR | 08.0801.1850 |
| VA 1900 | 1870 | 1920 | 1720 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,73 | NBR | 08.0801.1900 |
| VA 1950 | 1920 | 1970 | 1765 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,74 | NBR | 08.0801.1950 |
| VA 2000 | 1970 | 2020 | 1810 | 15 | 25 | 14,3 | d _a + 10 | d _a + 45 | 20,0 ±4,75 | NBR | 08.0801.2000 |

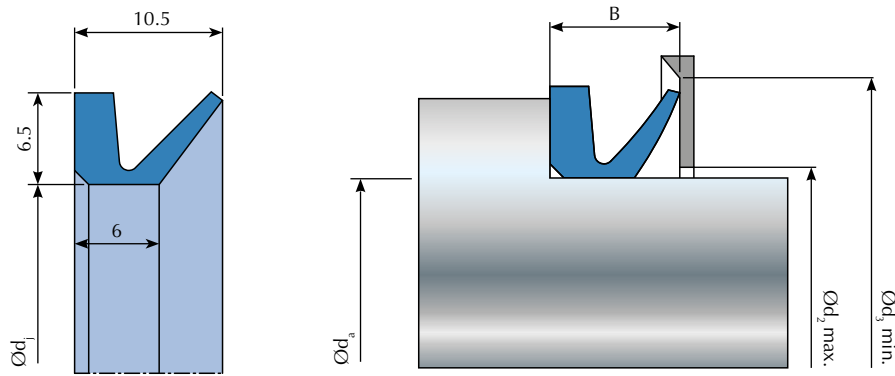
 VS


| Type | Ød _a (shaft) | | Ød _j (seal) | S | H | H1 | d ₂ | d ₃ | B | Material | Code |
|-------|-------------------------|------|------------------------|---|------|-----|--------------------|---------------------|----------|----------|---------------------|
| | Min. | Max. | | | | | | | | | |
| VS 5 | 4,5 | 5,5 | 4 | 2 | 5,2 | 3,9 | d _a + 1 | d _a + 6 | 4,5 ±0,4 | FKM | 08.0813.0056 |
| VS 5 | 4,5 | 5,5 | 4 | 2 | 5,2 | 3,9 | d _a + 1 | d _a + 6 | 4,5 ±0,4 | NBR | 08.0803.0005 |
| VS 6 | 5,5 | 6,5 | 5 | 2 | 5,2 | 3,9 | d _a + 1 | d _a + 6 | 4,5 ±0,4 | FKM | 08.0813.0057 |
| VS 6 | 5,5 | 6,5 | 5 | 2 | 5,2 | 3,9 | d _a + 1 | d _a + 6 | 4,5 ±0,4 | NBR | 08.0803.0010 |
| VS 7 | 6,5 | 8 | 6 | 2 | 5,2 | 3,9 | d _a + 1 | d _a + 6 | 4,5 ±0,4 | FKM | 08.0813.0054 |
| VS 7 | 6,5 | 8 | 6 | 2 | 5,2 | 3,9 | d _a + 1 | d _a + 6 | 4,5 ±0,4 | NBR | 08.0803.0015 |
| VS 8 | 8 | 9,5 | 7 | 2 | 5,2 | 3,9 | d _a + 1 | d _a + 6 | 4,5 ±0,4 | EPDM | 08.0823.0008 |
| VS 8 | 8 | 9,5 | 7 | 2 | 5,2 | 3,9 | d _a + 1 | d _a + 6 | 4,5 ±0,4 | EPDM FDA | 08.0824.0008 |
| VS 8 | 8 | 9,5 | 7 | 2 | 5,2 | 3,9 | d _a + 1 | d _a + 6 | 4,5 ±0,4 | FKM | 08.0813.0068 |
| VS 8 | 8 | 9,5 | 7 | 2 | 5,2 | 3,9 | d _a + 1 | d _a + 6 | 4,5 ±0,4 | NBR | 08.0803.0020 |
| VS 10 | 9,5 | 11 | 9 | 3 | 7,7 | 5,6 | d _a + 2 | d _a + 9 | 6,7 ±0,6 | FKM | 08.0813.0025 |
| VS 10 | 9,5 | 11 | 9 | 3 | 7,7 | 5,6 | d _a + 2 | d _a + 9 | 6,7 ±0,6 | NBR | 08.0803.0030 |
| VS 12 | 11,5 | 13,5 | 10,5 | 3 | 7,7 | 5,6 | d _a + 2 | d _a + 9 | 6,7 ±0,6 | FKM | 08.0813.0012 |
| VS 12 | 11,5 | 13,5 | 10,5 | 3 | 7,7 | 5,6 | d _a + 2 | d _a + 9 | 6,7 ±0,6 | MVQ | 08.0833.1200 |
| VS 12 | 11,5 | 13,5 | 10,5 | 3 | 7,7 | 5,6 | d _a + 2 | d _a + 9 | 6,7 ±0,6 | NBR | 08.0803.0035 |
| VS 12 | 11,5 | 13,5 | 10,5 | 3 | 7,7 | 5,6 | d _a + 2 | d _a + 9 | 6,7 ±0,6 | NBR FDA | 08.0809.0041 |
| VS 14 | 13,5 | 15,5 | 12,5 | 3 | 7,7 | 5,6 | d _a + 2 | d _a + 9 | 6,7 ±0,6 | FKM | 08.0813.0014 |
| VS 14 | 13,5 | 15,5 | 12,5 | 3 | 7,7 | 5,6 | d _a + 2 | d _a + 9 | 6,7 ±0,6 | NBR | 08.0803.0040 |
| VS 16 | 15,5 | 17,5 | 14 | 3 | 7,7 | 5,6 | d _a + 2 | d _a + 9 | 6,7 ±0,6 | FKM | 08.0813.0016 |
| VS 16 | 15,5 | 17,5 | 14 | 3 | 7,7 | 5,6 | d _a + 2 | d _a + 9 | 6,7 ±0,6 | NBR | 08.0803.0045 |
| VS 18 | 17,5 | 19 | 16 | 3 | 7,7 | 5,6 | d _a + 2 | d _a + 9 | 6,7 ±0,6 | FKM | 08.0813.0018 |
| VS 18 | 17,5 | 19 | 16 | 3 | 7,7 | 5,6 | d _a + 2 | d _a + 9 | 6,7 ±0,6 | NBR | 08.0803.0050 |
| VS 20 | 19 | 21 | 18 | 4 | 10,5 | 7,9 | d _a + 2 | d _a + 12 | 9,0 ±0,8 | FKM | 08.0813.0146 |
| VS 20 | 19 | 21 | 18 | 4 | 10,5 | 7,9 | d _a + 2 | d _a + 12 | 9,0 ±0,8 | NBR | 08.0803.0055 |
| VS 22 | 21 | 24 | 20 | 4 | 10,5 | 7,9 | d _a + 2 | d _a + 12 | 9,0 ±0,8 | FKM | 08.0813.0001 |
| VS 22 | 21 | 24 | 20 | 4 | 10,5 | 7,9 | d _a + 2 | d _a + 12 | 9,0 ±0,8 | NBR | 08.0803.0060 |
| VS 25 | 24 | 27 | 22 | 4 | 10,5 | 7,9 | d _a + 2 | d _a + 12 | 9,0 ±0,8 | FKM | 08.0813.1215 |
| VS 25 | 24 | 27 | 22 | 4 | 10,5 | 7,9 | d _a + 2 | d _a + 12 | 9,0 ±0,8 | NBR | 08.0803.0065 |
| VS 25 | 24 | 27 | 22 | 4 | 10,5 | 7,9 | d _a + 2 | d _a + 12 | 9,0 ±0,8 | NBR FDA | 08.0803.0009 |
| VS 28 | 27 | 29 | 25 | 4 | 10,5 | 7,9 | d _a + 3 | d _a + 12 | 9,0 ±0,8 | EPDM | 08.0823.0028 |
| VS 28 | 27 | 29 | 25 | 4 | 10,5 | 7,9 | d _a + 3 | d _a + 12 | 9,0 ±0,8 | FKM | 08.0813.3218 |
| VS 28 | 27 | 29 | 25 | 4 | 10,5 | 7,9 | d _a + 3 | d _a + 12 | 9,0 ±0,8 | NBR | 08.0803.0070 |
| VS 30 | 29 | 31 | 27 | 4 | 10,5 | 7,9 | d _a + 3 | d _a + 12 | 9,0 ±0,8 | EPDM | 08.0823.0030 |

| Type | Ød _a (shaft) | | Ød _j (seal) | S | H | H1 | d ₂ | d ₃ | B | Material | Code |
|-------|-------------------------|------|------------------------|---|------|------|--------------------|---------------------|-----------|----------|---------------------|
| | Min. | Max. | | | | | | | | | |
| VS 30 | 29 | 31 | 27 | 4 | 10,5 | 7,9 | d _a + 3 | d _a + 12 | 9,0 ±0,8 | FKM | 08.0813.5162 |
| VS 30 | 29 | 31 | 27 | 4 | 10,5 | 7,9 | d _a + 3 | d _a + 12 | 9,0 ±0,8 | NBR | 08.0803.0075 |
| VS 30 | 29 | 31 | 27 | 4 | 10,5 | 7,9 | d _a + 3 | d _a + 12 | 9,0 ±0,8 | NBR FDA | 08.1803.0030 |
| VS 32 | 31 | 33 | 29 | 4 | 10,5 | 7,9 | d _a + 3 | d _a + 12 | 9,0 ±0,8 | FKM | 08.0813.1651 |
| VS 32 | 31 | 33 | 29 | 4 | 10,5 | 7,9 | d _a + 3 | d _a + 12 | 9,0 ±0,8 | NBR | 08.0803.0080 |
| VS 35 | 33 | 36 | 31 | 4 | 10,5 | 7,9 | d _a + 3 | d _a + 12 | 9,0 ±0,8 | EPDM | 08.0823.0035 |
| VS 35 | 33 | 36 | 31 | 4 | 10,5 | 7,9 | d _a + 3 | d _a + 12 | 9,0 ±0,8 | FKM | 08.0813.0086 |
| VS 35 | 33 | 36 | 31 | 4 | 10,5 | 7,9 | d _a + 3 | d _a + 12 | 9,0 ±0,8 | NBR | 08.0803.0085 |
| VS 35 | 33 | 36 | 31 | 4 | 10,5 | 7,9 | d _a + 3 | d _a + 12 | 9,0 ±0,8 | NBR FDA | 08.0803.3500 |
| VS 38 | 36 | 38 | 34 | 4 | 10,5 | 7,9 | d _a + 3 | d _a + 12 | 9,0 ±0,8 | FKM | 08.0813.3514 |
| VS 38 | 36 | 38 | 34 | 4 | 10,5 | 7,9 | d _a + 3 | d _a + 12 | 9,0 ±0,8 | NBR | 08.0803.0090 |
| VS 40 | 38 | 43 | 36 | 5 | 13 | 9,5 | d _a + 3 | d _a + 15 | 11,0 ±1,0 | FKM | 08.0813.0088 |
| VS 40 | 38 | 43 | 36 | 5 | 13 | 9,5 | d _a + 3 | d _a + 15 | 11,0 ±1,0 | NBR | 08.0803.0095 |
| VS 40 | 38 | 43 | 36 | 5 | 13 | 9,5 | d _a + 3 | d _a + 15 | 11,0 ±1,0 | NBR FDA | 08.0809.0040 |
| VS 45 | 43 | 48 | 40 | 5 | 13 | 9,5 | d _a + 3 | d _a + 15 | 11,0 ±1,0 | EPDM | 08.0823.4526 |
| VS 45 | 43 | 48 | 40 | 5 | 13 | 9,5 | d _a + 3 | d _a + 15 | 11,0 ±1,0 | FKM | 08.0813.0101 |
| VS 45 | 43 | 48 | 40 | 5 | 13 | 9,5 | d _a + 3 | d _a + 15 | 11,0 ±1,0 | MVQ | 08.0833.4500 |
| VS 45 | 43 | 48 | 40 | 5 | 13 | 9,5 | d _a + 3 | d _a + 15 | 11,0 ±1,0 | NBR | 08.0803.0100 |
| VS 50 | 48 | 53 | 45 | 5 | 13 | 9,5 | d _a + 3 | d _a + 15 | 11,0 ±1,0 | FKM | 08.0813.0106 |
| VS 50 | 48 | 53 | 45 | 5 | 13 | 9,5 | d _a + 3 | d _a + 15 | 11,0 ±1,0 | NBR | 08.0803.0105 |
| VS 50 | 48 | 53 | 45 | 5 | 13 | 9,5 | d _a + 3 | d _a + 15 | 11,0 ±1,0 | NBR | 08.0803.0007 |
| VS 55 | 53 | 58 | 49 | 5 | 13 | 9,5 | d _a + 3 | d _a + 15 | 11,0 ±1,0 | FKM | 08.0813.1912 |
| VS 55 | 53 | 58 | 49 | 5 | 13 | 9,5 | d _a + 3 | d _a + 15 | 11,0 ±1,0 | NBR | 08.0803.0110 |
| VS 55 | 53 | 58 | 49 | 5 | 13 | 9,5 | d _a + 3 | d _a + 15 | 11,0 ±1,0 | NBR FDA | 08.0809.0055 |
| VS 60 | 58 | 63 | 54 | 5 | 13 | 9,5 | d _a + 3 | d _a + 15 | 11,0 ±1,0 | EPDM | 08.0823.0060 |
| VS 60 | 58 | 63 | 54 | 5 | 13 | 9,5 | d _a + 3 | d _a + 15 | 11,0 ±1,0 | FKM | 08.0813.1461 |
| VS 60 | 58 | 63 | 54 | 5 | 13 | 9,5 | d _a + 3 | d _a + 15 | 11,0 ±1,0 | NBR | 08.0803.0115 |
| VS 60 | 58 | 63 | 54 | 5 | 13 | 9,5 | d _a + 3 | d _a + 15 | 11,0 ±1,0 | NBR FDA | 08.0809.0060 |
| VS 65 | 63 | 68 | 58 | 5 | 13 | 9,5 | d _a + 3 | d _a + 15 | 11,0 ±1,0 | FKM | 08.0813.0125 |
| VS 65 | 63 | 68 | 58 | 5 | 13 | 9,5 | d _a + 3 | d _a + 15 | 11,0 ±1,0 | NBR | 08.0803.0120 |
| VS 70 | 68 | 73 | 63 | 6 | 15,5 | 11,3 | d _a + 4 | d _a + 18 | 13,5 ±1,2 | EPDM | 08.0823.0070 |
| VS 70 | 68 | 73 | 63 | 6 | 15,5 | 11,3 | d _a + 4 | d _a + 18 | 13,5 ±1,2 | FKM | 08.0813.9822 |
| VS 70 | 68 | 73 | 63 | 6 | 15,5 | 11,3 | d _a + 4 | d _a + 18 | 13,5 ±1,2 | NBR | 08.0803.0130 |
| VS 70 | 68 | 73 | 63 | 6 | 15,5 | 11,3 | d _a + 4 | d _a + 18 | 13,5 ±1,2 | NBR FDA | 08.0809.0070 |
| VS 75 | 73 | 78 | 67 | 6 | 15,5 | 11,3 | d _a + 4 | d _a + 18 | 13,5 ±1,2 | EPDM | 08.0823.0075 |
| VS 75 | 73 | 78 | 67 | 6 | 15,5 | 11,3 | d _a + 4 | d _a + 18 | 13,5 ±1,2 | FKM | 08.0813.9899 |
| VS 75 | 73 | 78 | 67 | 6 | 15,5 | 11,3 | d _a + 4 | d _a + 18 | 13,5 ±1,2 | NBR | 08.0803.0135 |
| VS 80 | 78 | 83 | 72 | 6 | 15,5 | 11,3 | d _a + 4 | d _a + 18 | 13,5 ±1,2 | FKM | 08.0813.0140 |
| VS 80 | 78 | 83 | 72 | 6 | 15,5 | 11,3 | d _a + 4 | d _a + 18 | 13,5 ±1,2 | NBR | 08.0803.0145 |
| VS 80 | 78 | 83 | 72 | 6 | 15,5 | 11,3 | d _a + 4 | d _a + 18 | 13,5 ±1,2 | NBR FDA | 08.0803.0006 |
| VS 85 | 83 | 88 | 76 | 6 | 15,5 | 11,3 | d _a + 4 | d _a + 18 | 13,5 ±1,2 | FKM | 08.0813.0151 |
| VS 85 | 83 | 88 | 76 | 6 | 15,5 | 11,3 | d _a + 4 | d _a + 18 | 13,5 ±1,2 | NBR | 08.0803.0150 |
| VS 90 | 88 | 98 | 85 | 6 | 15,5 | 11,3 | d _a + 4 | d _a + 18 | 13,5 ±1,2 | FKM | 08.0813.1321 |
| VS 90 | 88 | 98 | 85 | 6 | 15,5 | 11,3 | d _a + 4 | d _a + 18 | 13,5 ±1,2 | NBR | 08.0803.0155 |
| VS 90 | 88 | 98 | 85 | 6 | 15,5 | 11,3 | d _a + 4 | d _a + 18 | 13,5 ±1,2 | NBR FDA | 08.0809.0090 |
| VS 95 | 93 | 98 | 85 | 6 | 15,5 | 11,3 | d _a + 4 | d _a + 18 | 13,5 ±1,2 | FKM | 08.0813.3215 |

| Type | Ød _a (shaft) | | Ød _j (seal) | S | H | H1 | d ₂ | d ₃ | B | Material | Code |
|--------|-------------------------|------|---------------------------|---|------|------|--------------------|---------------------|-----------|----------|---------------------|
| | Min. | Max. | | | | | | | | | |
| VS 95 | 93 | 98 | 85 | 6 | 15,5 | 11,3 | d _a + 4 | d _a + 18 | 13,5 ±1,2 | NBR | 08.0803.0157 |
| VS 100 | 98 | 105 | 90 | 6 | 15,5 | 11,3 | d _a + 4 | d _a + 18 | 13,5 ±1,2 | FKM | 08.0813.9895 |
| VS 100 | 98 | 105 | 90 | 6 | 15,5 | 11,3 | d _a + 4 | d _a + 18 | 13,5 ±1,2 | NBR | 08.0803.0160 |
| VS 100 | 98 | 105 | 90 | 6 | 15,5 | 11,3 | d _a + 4 | d _a + 18 | 13,5 ±1,2 | NBR FDA | 08.0809.0100 |
| VS 110 | 105 | 115 | 99 | 7 | 18 | 13,1 | d _a + 4 | d _a + 21 | 15,5 ±1,5 | EPDM | 08.0823.0110 |
| VS 110 | 105 | 115 | 99 | 7 | 18 | 13,1 | d _a + 4 | d _a + 21 | 15,5 ±1,5 | FKM | 08.0813.3228 |
| VS 110 | 105 | 115 | 99 | 7 | 18 | 13,1 | d _a + 4 | d _a + 21 | 15,5 ±1,5 | NBR | 08.0803.0165 |
| VS 110 | 105 | 115 | 99 | 7 | 18 | 13,1 | d _a + 4 | d _a + 21 | 15,5 ±1,5 | NBR FDA | 08.0803.0008 |
| VS 120 | 115 | 125 | 108 | 7 | 18 | 13,1 | d _a + 4 | d _a + 21 | 15,5 ±1,5 | EPDM | 08.0823.0120 |
| VS 120 | 115 | 125 | 108 | 7 | 18 | 13,1 | d _a + 4 | d _a + 21 | 15,5 ±1,5 | FKM | 08.0813.3217 |
| VS 120 | 115 | 125 | 108 | 7 | 18 | 13,1 | d _a + 4 | d _a + 21 | 15,5 ±1,5 | FKM FDA | 08.0814.0120 |
| VS 120 | 115 | 125 | 108 | 7 | 18 | 13,1 | d _a + 4 | d _a + 21 | 15,5 ±1,5 | NBR | 08.0803.0170 |
| VS 120 | 115 | 125 | 108 | 7 | 18 | 13,1 | d _a + 4 | d _a + 21 | 15,5 ±1,5 | NBR FDA | 08.0809.0120 |
| VS 130 | 125 | 135 | 117 | 7 | 18 | 13,1 | d _a + 4 | d _a + 21 | 15,5 ±1,5 | FKM | 08.0813.9871 |
| VS 130 | 125 | 135 | 117 | 7 | 18 | 13,1 | d _a + 4 | d _a + 21 | 15,5 ±1,5 | NBR | 08.0803.0175 |
| VS 130 | 125 | 135 | 117 | 7 | 18 | 13,1 | d _a + 4 | d _a + 21 | 15,5 ±1,5 | NBR FDA | 08.0809.0130 |
| VS 140 | 135 | 145 | 126 | 7 | 18 | 13,1 | d _a + 4 | d _a + 21 | 15,5 ±1,5 | FKM | 08.0813.1985 |
| VS 140 | 135 | 145 | 126 | 7 | 18 | 13,1 | d _a + 4 | d _a + 21 | 15,5 ±1,5 | NBR | 08.0803.0180 |
| VS 150 | 145 | 155 | 135 | 7 | 18 | 13,1 | d _a + 4 | d _a + 21 | 15,5 ±1,5 | FKM | 08.0813.0186 |
| VS 150 | 145 | 155 | 135 | 7 | 18 | 13,1 | d _a + 4 | d _a + 21 | 15,5 ±1,5 | NBR | 08.0803.0185 |
| VS 150 | 145 | 155 | 135 | 7 | 18 | 13,1 | d _a + 4 | d _a + 21 | 15,5 ±1,5 | NBR FDA | 08.0809.0150 |
| VS 160 | 155 | 165 | 144 | 8 | 20,5 | 15 | d _a + 5 | d _a + 24 | 18,0 ±1,8 | EPDM | 08.0823.0160 |
| VS 160 | 155 | 165 | 144 | 8 | 20,5 | 15 | d _a + 5 | d _a + 24 | 18,0 ±1,8 | FKM | 08.0813.0187 |
| VS 160 | 155 | 165 | 144 | 8 | 20,5 | 15 | d _a + 5 | d _a + 24 | 18,0 ±1,8 | NBR | 08.0803.0190 |
| VS 160 | 155 | 165 | 144 | 8 | 20,5 | 15 | d _a + 5 | d _a + 24 | 18,0 ±1,8 | NBR FDA | 08.0809.0160 |
| VS 170 | 165 | 175 | 153 | 8 | 20,5 | 15 | d _a + 5 | d _a + 24 | 18,0 ±1,8 | FKM | 08.0813.0562 |
| VS 170 | 165 | 175 | 153 | 8 | 20,5 | 15 | d _a + 5 | d _a + 24 | 18,0 ±1,8 | NBR | 08.0803.0195 |
| VS 180 | 175 | 185 | 162 | 8 | 20,5 | 15 | d _a + 5 | d _a + 24 | 18,0 ±1,8 | EPDM | 08.0823.0180 |
| VS 180 | 175 | 185 | 162 | 8 | 20,5 | 15 | d _a + 5 | d _a + 24 | 18,0 ±1,8 | FKM | 08.0813.0181 |
| VS 180 | 175 | 185 | 162 | 8 | 20,5 | 15 | d _a + 5 | d _a + 24 | 18,0 ±1,8 | NBR | 08.0803.0200 |
| VS 190 | 185 | 195 | 171 | 8 | 20,5 | 15 | d _a + 5 | d _a + 24 | 18,0 ±1,8 | FKM | 08.0813.1900 |
| VS 190 | 185 | 195 | 171 | 8 | 20,5 | 15 | d _a + 5 | d _a + 24 | 18,0 ±1,8 | NBR | 08.0803.0205 |
| VS 199 | 195 | 210 | 180 | 8 | 20,5 | 15 | d _a + 5 | d _a + 24 | 18,0 ±1,8 | FKM | 08.0813.0199 |
| VS 199 | 195 | 210 | 180 | 8 | 20,5 | 15 | d _a + 5 | d _a + 24 | 18,0 ±1,8 | NBR | 08.0803.0210 |

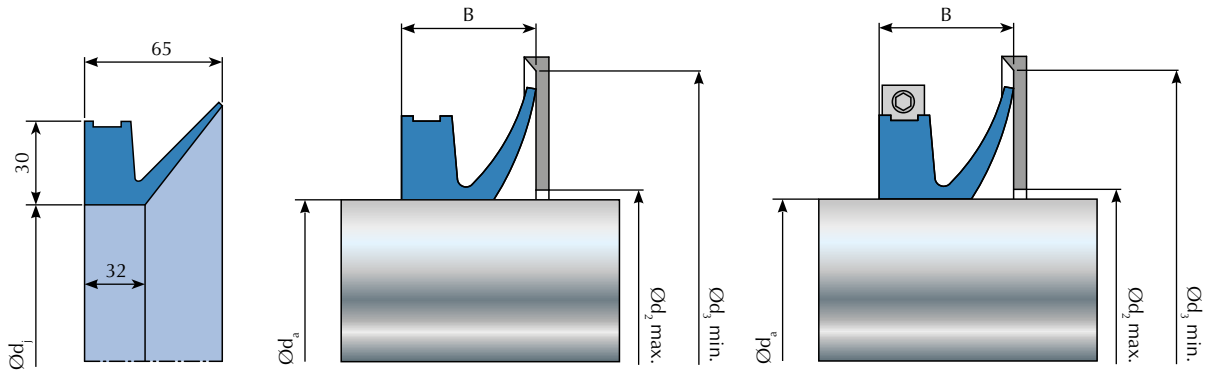
VL



| Type | Ød _a (shaft) | | Ød _j (seal) | Material | Code |
|--------|-------------------------|------|------------------------|----------|---------------------|
| | Min. | Max. | | | |
| VL 110 | 105 | 115 | 99 | FKM | 08.0812.0110 |
| VL 120 | 115 | 125 | 108 | NBR | 08.0802.0120 |
| VL 130 | 125 | 135 | 117 | NBR | 08.0802.0130 |
| VL 130 | 125 | 135 | 117 | FKM | 08.0812.0130 |
| VL 140 | 135 | 145 | 126 | NBR | 08.0802.0140 |
| VL 140 | 135 | 145 | 126 | FKM | 08.0812.1401 |
| VL 150 | 145 | 155 | 135 | FKM | 08.0812.0150 |
| VL 150 | 145 | 155 | 135 | NBR | 08.0802.0005 |
| VL 150 | 145 | 155 | 135 | NBR FDA | 08.0802.0050 |
| VL 160 | 155 | 165 | 144 | NBR | 08.0802.0007 |
| VL 160 | 155 | 165 | 144 | FKM | 08.0812.0160 |
| VL 170 | 165 | 175 | 153 | FKM | 08.0812.0720 |
| VL 170 | 165 | 175 | 153 | NBR | 08.0802.0170 |
| VL 180 | 175 | 185 | 162 | FKM | 08.0812.0180 |
| VL 180 | 175 | 185 | 162 | NBR | 08.0802.1963 |
| VL 190 | 185 | 195 | 171 | FKM | 08.0812.0190 |
| VL 190 | 185 | 195 | 171 | NBR | 08.0802.0008 |
| VL 190 | 185 | 195 | 171 | NBR FDA | 08.0802.0090 |
| VL 200 | 195 | 210 | 182 | FKM | 08.0812.0200 |
| VL 200 | 195 | 210 | 182 | NBR | 08.0802.0141 |
| VL 220 | 210 | 233 | 198 | FKM | 08.0812.0220 |
| VL 220 | 210 | 233 | 198 | NBR | 08.0802.0220 |
| VL 250 | 233 | 260 | 225 | FKM | 08.0812.0250 |
| VL 250 | 233 | 260 | 225 | NBR | 08.0802.0025 |
| VL 275 | 260 | 285 | 247 | NBR | 08.0802.0010 |
| VL 275 | 260 | 285 | 247 | FKM | 08.0812.0275 |
| VL 300 | 285 | 310 | 270 | NBR | 08.0802.0300 |
| VL 300 | 285 | 310 | 270 | FKM | 08.0812.0300 |
| VL 325 | 310 | 335 | 292 | NBR | 08.0802.0325 |
| VL 325 | 310 | 335 | 292 | FKM | 08.0812.0325 |
| VL 350 | 335 | 365 | 315 | FKM | 08.0812.0350 |
| VL 350 | 335 | 365 | 315 | NBR | 08.0802.0011 |
| VL 375 | 365 | 385 | 337 | FKM | 08.0812.0375 |
| VL 375 | 365 | 385 | 337 | NBR | 08.0802.0012 |

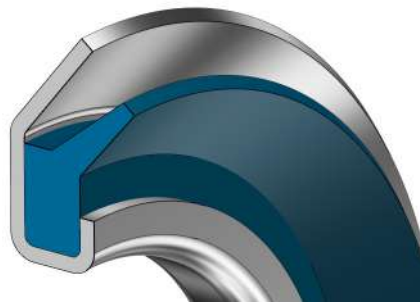
| Type | Ød _a (shaft) | | Ød _j (seal) | Material | Code |
|--------|-------------------------|------|---------------------------|----------|---------------------|
| | Min. | Max. | | | |
| VL 400 | 385 | 410 | 360 | FKM | 08.0812.0400 |
| VL 400 | 385 | 410 | 360 | NBR | 08.0802.0036 |
| VL 425 | 410 | 440 | 382 | NBR | 08.0802.0425 |
| VL 450 | 440 | 475 | 405 | FKM | 08.0812.0450 |
| VL 450 | 440 | 475 | 405 | NBR | 08.0802.0015 |
| VL 500 | 475 | 510 | 450 | FKM | 08.0812.0500 |
| VL 500 | 475 | 510 | 450 | NBR | 08.0802.3100 |
| VL 550 | 540 | 585 | 495 | FKM | 08.0812.0550 |
| VL 550 | 540 | 585 | 495 | NBR | 08.0802.0550 |
| VL 600 | 585 | 625 | 540 | NBR | 08.0802.0020 |
| VL 600 | 585 | 625 | 540 | NBR FDA | 08.0802.0600 |
| VL 600 | 585 | 625 | 540 | FKM | 08.0812.0600 |
| VL 650 | 625 | 710 | 600 | NBR | 08.0802.0650 |
| VL 650 | 625 | 710 | 600 | FKM | 08.0812.0650 |
| VL 700 | 675 | 710 | 630 | NBR | 08.0802.0700 |
| VL 725 | 710 | 740 | 670 | NBR | 08.0802.0725 |
| VL 750 | 740 | 775 | 705 | FKM | 08.0812.0750 |
| VL 750 | 740 | 775 | 705 | NBR | 08.0802.7501 |
| VL 800 | 775 | 825 | 745 | NBR | 08.0802.0800 |
| VL 850 | 825 | 825 | 785 | FKM | 08.0812.0850 |
| VL 850 | 825 | 875 | 785 | NBR | 08.0802.0850 |

VE

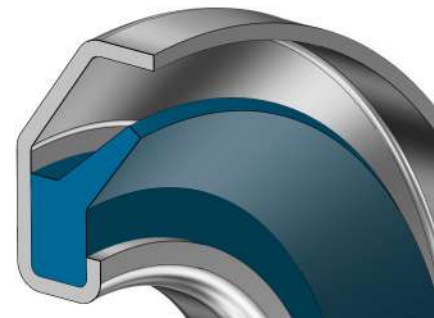


| Type | Ød _a (shaft) | | Ød ₁ (seal) | Material | Code |
|--------|-------------------------|------|------------------------|----------|---------------------|
| | Min. | Max. | | | |
| VL 375 | 365 | 385 | 337 | FKM | 08.0812.0375 |
| VL 375 | 365 | 385 | 337 | NBR | 08.0802.0012 |
| VL 400 | 385 | 410 | 360 | FKM | 08.0812.0400 |
| VL 400 | 385 | 410 | 360 | NBR | 08.0802.0036 |
| VL 425 | 410 | 440 | 382 | NBR | 08.0802.0425 |
| VL 450 | 440 | 475 | 405 | FKM | 08.0812.0450 |
| VL 450 | 440 | 475 | 405 | NBR | 08.0802.0015 |
| VL 500 | 475 | 510 | 450 | FKM | 08.0812.0500 |
| VL 500 | 475 | 510 | 450 | NBR | 08.0802.3100 |
| VL 550 | 540 | 585 | 495 | FKM | 08.0812.0550 |
| VL 550 | 540 | 585 | 495 | NBR | 08.0802.0550 |
| VL 600 | 585 | 625 | 540 | NBR | 08.0802.0020 |
| VL 600 | 585 | 625 | 540 | NBR FDA | 08.0802.0600 |
| VL 600 | 585 | 625 | 540 | FKM | 08.0812.0600 |
| VL 650 | 625 | 710 | 600 | NBR | 08.0802.0650 |
| VL 650 | 625 | 710 | 600 | FKM | 08.0812.0650 |
| VL 700 | 675 | 710 | 630 | NBR | 08.0802.0700 |
| VL 725 | 710 | 740 | 670 | NBR | 08.0802.0725 |
| VL 750 | 740 | 775 | 705 | FKM | 08.0812.0750 |
| VL 750 | 740 | 775 | 705 | NBR | 08.0802.7501 |
| VL 800 | 775 | 825 | 745 | NBR | 08.0802.0800 |
| VL 850 | 825 | 825 | 785 | FKM | 08.0812.0850 |
| VL 850 | 825 | 875 | 785 | NBR | 08.0802.0850 |

Axial face seals



⌀ RB



⌀ 9RB

1) Description

RB and 9RB axial face seals are combinations of a metal case and an encapsulated rubber lip.

These anti-pollution seals are mainly used to protect a system from dust, dirt, water and oil splashes ingression.

2) Advantages

- Two in one compact seal
- Rubber lip and metal case can be used separately
- Protective metal case
- Efficient solution for anti-pollution against abrasive particles
- Compact seal
- Easy fitting, easy replacement
- Low contact pressure on counterface thanks to the flexible lip, preventing lip and counterface from abrasion and allowing reduced power losses.

3) Limitations

- cannot be used in applications with pressure differentials
- Maximum allowed speed: 20 m/s
- Recommended counterface roughness: Ra 1 to 5 µm

4) Materials

RB and 9RB-Seals are available in several materials:

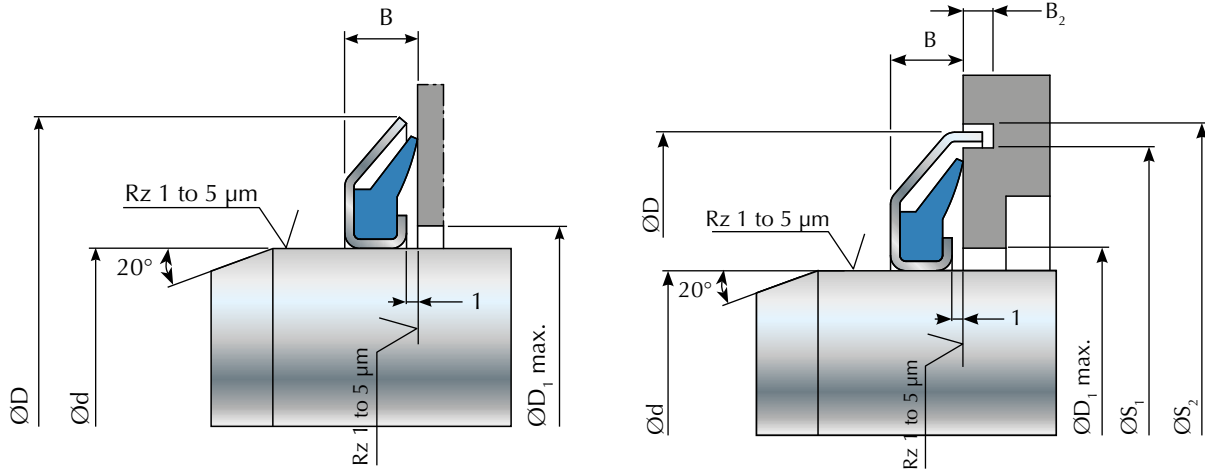
- Rubber lip:
 - ⊙ NBR: Standard material. Techné mainly choses ozon resistant NBR compounds
 - ⊙ FKM: For high temperature applications and contacts with chemicals
- Metal case
 - ⊙ Carbon steel with Cr3 protection layer
 - ⊙ Stainless steel AISI 304

5) Applications

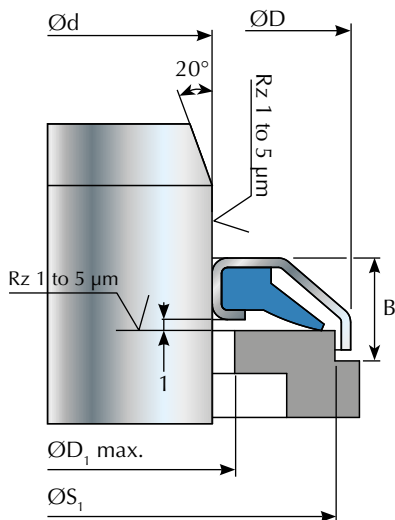
- Gearboxes
- Pumps
- Electrical motors, home appliances
- Heavy duty, construction machines

6) Fitting

- For fitting on horizontal shaft, RB and 9RB profiles can be used.



- For fitting on vertical shaft, 9RB profile will be preferred



7) Dimensional list

| Ød | ØD | B | D ₁ | ØS ₁ | ØS ₂ | B ₂ | Type | Code |
|----|----|------|----------------|-----------------|-----------------|----------------|------|---------------------|
| 10 | 24 | 3,5 | 15 | | | | RB | 06.0001.0010 |
| 11 | 26 | 3,5 | 17 | | | | RB | 06.0001.0011 |
| 12 | 26 | 3,5 | 17 | | | | RB | 06.0001.0012 |
| 14 | 30 | 4 | 21 | | | | RB | 06.0001.0014 |
| 15 | 32 | 4,00 | 21 | 29 | 34 | 3 | 9RB | 06.0002.0015 |
| 15 | 30 | 4 | 21 | | | | RB | 06.0001.0015 |
| 16 | 32 | 4 | 23 | | | | RB | 06.0001.0016 |
| 17 | 34 | 4,00 | 23 | 31 | 36 | 3 | 9RB | 06.0002.0017 |
| 17 | 32 | 4 | 23 | | | | RB | 06.0001.0017 |
| 18 | 33 | 4 | 24 | | | | RB | 06.0001.0018 |
| 20 | 37 | 4,00 | 26 | 34 | 39 | 3 | 9RB | 06.0002.0020 |
| 20 | 35 | 4 | 26 | | | | RB | 06.0001.0020 |
| 22 | 40 | 4 | 28 | | | | RB | 06.0001.0022 |
| 24 | 40 | 4 | 30 | | | | RB | 06.0001.0024 |
| 25 | 42 | 4,00 | 31 | 39 | 44 | 3 | 9RB | 06.0002.0025 |
| 25 | 40 | 4 | 31 | | | | RB | 06.0001.0025 |
| 26 | 40 | 4 | 31 | | | | RB | 06.0001.0026 |
| 28 | 45 | 4,00 | 33 | 42 | 47 | 3 | 9RB | 06.0002.0028 |
| 28 | 43 | 4 | 32 | | | | RB | 06.0001.0028 |
| 29 | 39 | 4,00 | 34 | 43 | 48 | 3 | 9RB | 06.0002.0022 |
| 30 | 48 | 4,50 | 37 | 45 | 50 | 3 | 9RB | 06.0002.0030 |
| 30 | 47 | 4,5 | 34 | | | | RB | 06.0001.0030 |
| 32 | 49 | 4,5 | 37 | | | | RB | 06.0001.0032 |
| 35 | 53 | 4,50 | 42 | 50 | 55 | 3 | 9RB | 06.0002.0035 |
| 35 | 52 | 4,5 | 39 | | | | RB | 06.0001.0035 |
| 38 | 55 | 4,5 | 42 | | | | RB | 06.0001.0038 |
| 40 | 58 | 4,50 | 47 | 55 | 60 | 3 | 9RB | 06.0002.0040 |
| 40 | 57 | 4,5 | 47 | | | | RB | 06.0001.0040 |
| 41 | 57 | 4,5 | 48 | | | | RB | 06.0001.0041 |
| 42 | 59 | 4,5 | 49 | | | | RB | 06.0001.0042 |
| 45 | 63 | 4,50 | 52 | 60 | 65 | 3 | 9RB | 06.0002.0045 |
| 45 | 62 | 4,5 | 52 | | | | RB | 06.0001.0045 |
| 48 | 65 | 4,5 | 55 | | | | RB | 06.0001.0048 |
| 50 | 72 | 5,50 | 58 | 68,5 | 74 | 3 | 9RB | 06.0002.0050 |
| 50 | 70 | 5,5 | 58 | | | | RB | 06.0001.0050 |
| 52 | 72 | 5,5 | 60 | | | | RB | 06.0001.0052 |
| 55 | 77 | 5,50 | 63 | 73,5 | 79 | 3 | 9RB | 06.0002.0055 |
| 55 | 75 | 5,5 | 63 | | | | RB | 06.0001.0055 |
| 58 | 78 | 5,5 | 66 | | | | RB | 06.0001.0058 |
| 60 | 82 | 5,50 | 68 | 78,5 | 84 | 3 | 9RB | 06.0002.0060 |
| 60 | 80 | 5,5 | 68 | | | | RB | 06.0001.0060 |
| 62 | 82 | 5,5 | 70 | | | | RB | 06.0001.0062 |

| Ød | ØD | B | D ₁ | ØS ₁ | ØS ₂ | B ₂ | Type | Code |
|-----|-----|------|----------------|-----------------|-----------------|----------------|------|---------------------|
| 65 | 87 | 5,50 | 73 | 83,5 | 89 | 3 | 9RB | 06.0002.0065 |
| 65 | 85 | 5,5 | 73 | | | | RB | 06.0001.0065 |
| 68 | 88 | 5,5 | 76 | | | | RB | 06.0001.0068 |
| 70 | 92 | 5,50 | 78 | 88,5 | 94 | 3 | 9RB | 06.0002.0070 |
| 70 | 90 | 5,5 | 78 | | | | RB | 06.0001.0070 |
| 72 | 92 | 5,5 | 80 | | | | RB | 06.0001.0072 |
| 75 | 97 | 5,50 | 83 | 93,5 | 99 | 3 | 9RB | 06.0002.0075 |
| 75 | 95 | 5,5 | 83 | | | | RB | 06.0001.0075 |
| 78 | 98 | 5,5 | 86 | | | | RB | 06.0001.0078 |
| 80 | 102 | 5,50 | 88 | 98,5 | 104 | 3 | 9RB | 06.0002.0080 |
| 80 | 100 | 5,5 | 88 | | | | RB | 06.0001.0080 |
| 85 | 107 | 5,50 | 93 | 103,5 | 109 | 3 | 9RB | 06.0002.0085 |
| 85 | 105 | 5,5 | 93 | | | | RB | 06.0001.0085 |
| 90 | 112 | 5,50 | 98 | 108,5 | 114 | 3 | 9RB | 06.0002.0090 |
| 90 | 110 | 5,5 | 98 | | | | RB | 06.0001.0090 |
| 95 | 117 | 5,50 | 103 | 113,5 | 119 | 3 | 9RB | 06.0002.0095 |
| 95 | 115 | 5,5 | 103 | | | | RB | 06.0001.0095 |
| 100 | 122 | 5,50 | 108 | 118,5 | 124 | 3 | 9RB | 06.0002.0100 |
| 100 | 120 | 5,5 | 108 | | | | RB | 06.0001.0100 |
| 105 | 125 | 5,5 | 113 | | | | RB | 06.0001.0105 |
| 135 | 159 | 6,5 | 145 | | | | RB | 06.0001.0135 |
| 225 | 250 | 7,5 | 235 | | | | RB | 06.0001.0225 |

Technical instructions

Introduction

Techné rotary shaft seals are designed to seal shafts and prevent the lubrication fluid to leak out. Some rotary shaft seals with anti-dust lips will also avoid dirt to get in and damage the customer device.

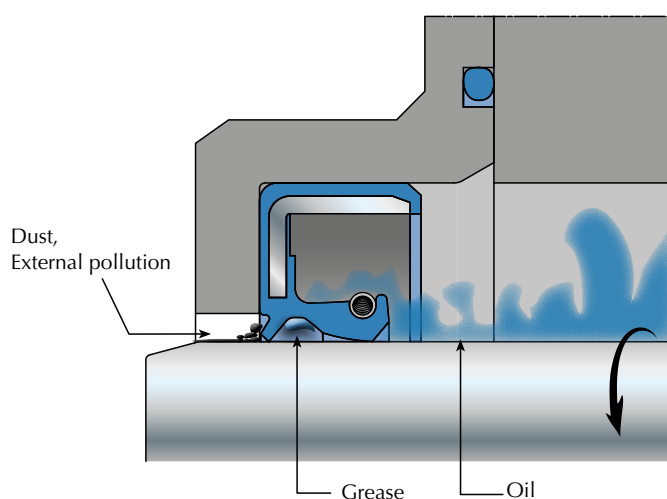
Techné rotary seals are composed of 3 main components:

- a metal case
- an active sealing lip, and usually a passive anti-dust lip
- a metal spring to help active lip to stay in contact with shaft even in case of small misalignment.

These 3 components can be selected and optimised according to application:

- rotation speed
- temperature
- pressure
- fluid to be sealed
- outer pollution.

For optimum sealing, design and manufacture of shaft and housing must follow Techné recommendations. The installation must be made according to Techné recommendations.

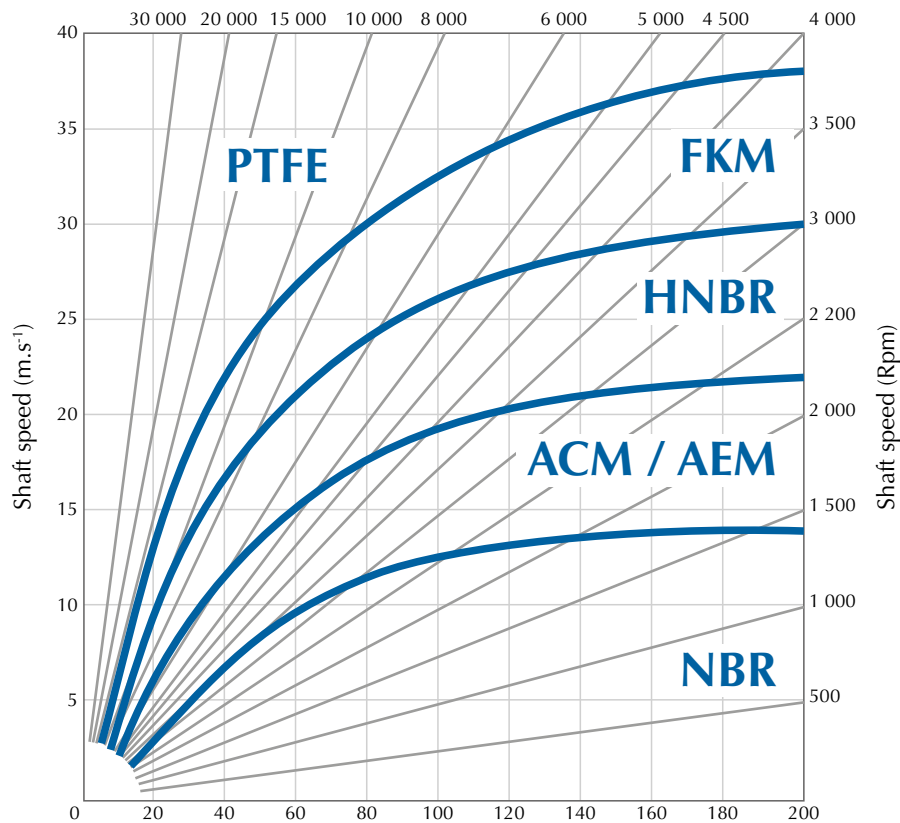


1) Working parameters

✦ Determination of material depending on shaft rotation speed

Linear speed calculation:

$$V(\text{m.s}^{-1}) = \frac{\text{Ø shaft (mm)} \times \text{speed (tr/mn)} \times \pi}{60000}$$



These data are given for information only. These are suitable in standard working conditions with good lubrication and good heat removal out of the sealing area.

✦ Determination of rotary shaft seal profile for high pressure applications

Standard rotary shaft seals

Standard rotary shaft seals are designed for use without pressure. Techné usually recommends to limit the working pressure depending on shaft rotation speed.

| Shaft rotation speed | < 1000 rpm | < 2000 rpm | < 3000 rpm |
|-----------------------|------------|------------|------------|
| Max. working pressure | 0.50 bar | 0.35 bar | 0.20 bar |

These values are only indicative and Techné cannot be held responsible for them.

Standard rotary shaft seals are not suitable for applications with operating pressure.

The indicated values are only valid for very slight occasional overpressures.

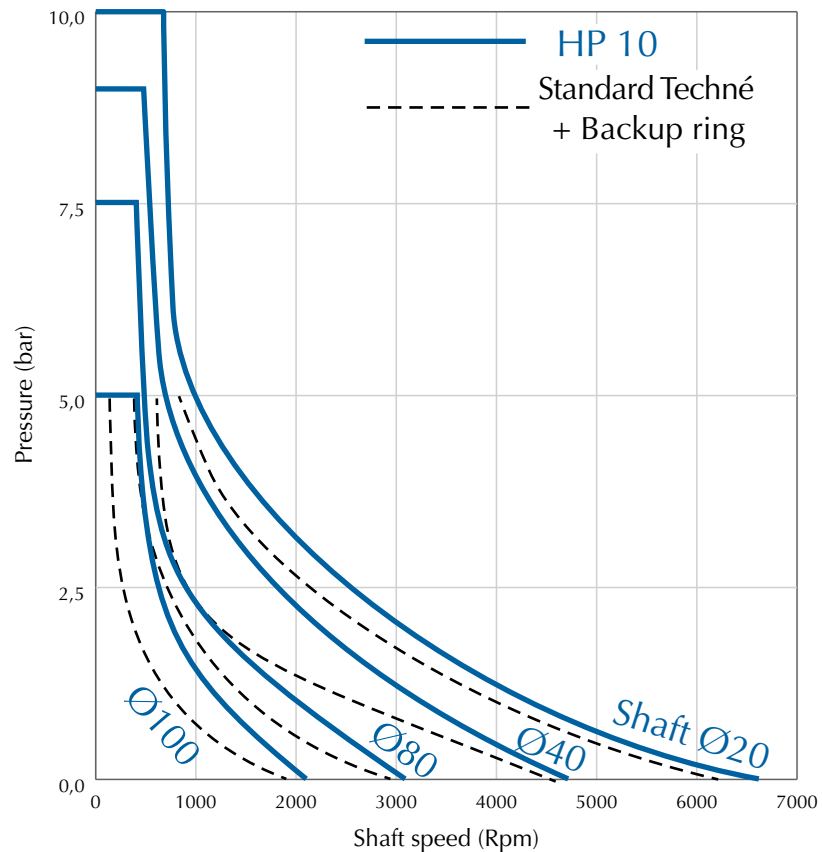
In case you are aware of potential pressure within the application, please contact Techné for high pressure (HP) rotary shaft seals that are suitable for applications with pressure.

High pressure rotary shaft seals

High pressure rotary shaft seals are designed for use with pressure.

The graph below helps to determine the right profile of High Pressure rotary shaft seals, depending on the shaft speed and the working pressure.

For applications over 10 bars, please consult Techné engineering department.



These data are given for information only. These are suitable in standard working conditions with good lubrication and good heat removal out of the sealing area.

⚙ Elevation of the sealing lip temperature depending on shaft speed and shaft diameter

| Shaft diameter | | 25 mm | | 50 mm | | 100 mm | | 150 mm | | 200 mm | |
|----------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|
| Shaft rotation speed | Viscosity index | Good lubrication | Low lubrication | Good lubrication | Low lubrication | Good lubrication | Low lubrication | Good lubrication | Low lubrication | Good lubrication | Low lubrication |
| 1500 rpm | SAE 20 | 5 °C | 25 °C | 5 °C | 30 °C | 10 °C | 40 °C | 10 °C | 45 °C | 10 °C | 50 °C |
| | SAE 90 | 15 °C | 40 °C | 15 °C | 50 °C | 20 °C | 60 °C | 20 °C | 65 °C | 20 °C | 70 °C |
| 3000 rpm | SAE 20 | 10 °C | 30 °C | 15 °C | 40 °C | 20 °C | 50 °C | 20 °C | 55 °C | 20 °C | 60 °C |
| | SAE 90 | 20 °C | 45 °C | 25 °C | 60 °C | 30 °C | 70 °C | 30 °C | 75 °C | 30 °C | 80 °C |
| 6000 rpm | SAE 20 | 20 °C | 40 °C | 30 °C | 55 °C | 35 °C | 65 °C | 40 °C | 75 °C | 40 °C | 80 °C |
| | SAE 90 | 30 °C | 55 °C | 40 °C | 75 °C | 45 °C | 85 °C | 50 °C | 95 °C | 50 °C | 100 °C |

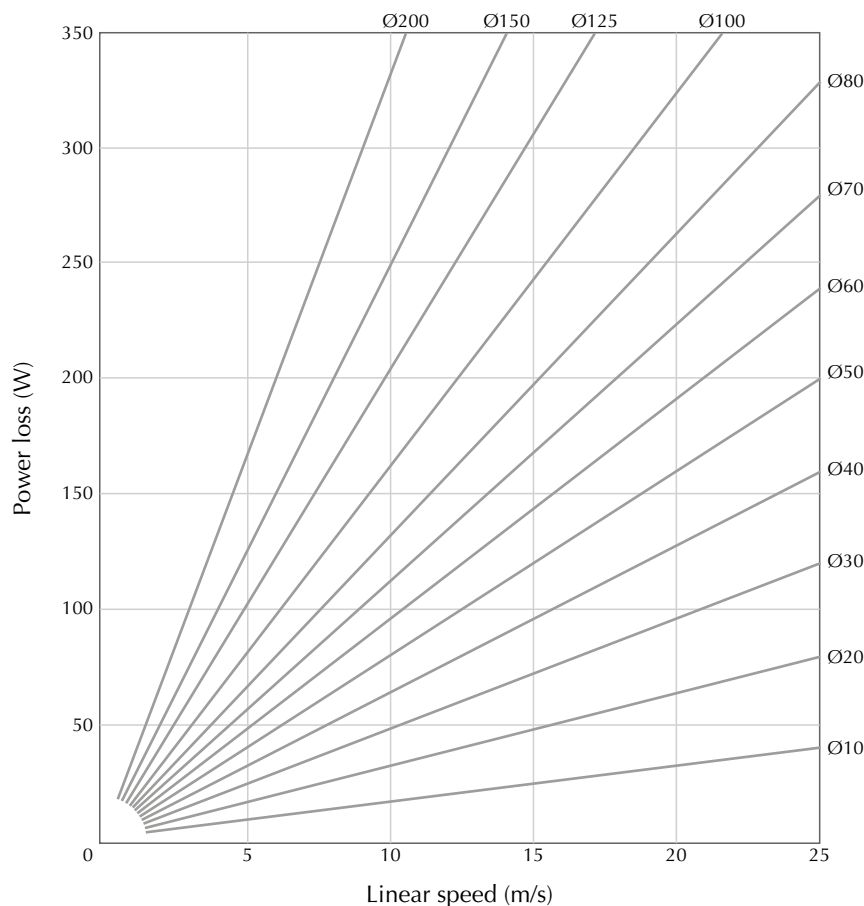
These data are given for information only. These are suitable in standard working conditions with good lubrication and good heat removal out of the sealing area.

The values given in the chart above are average values. To avoid a sudden elevation of the temperature, a good lubrication is recommended.

These data have to be considered when choosing the rubber material of a rotary shaft seal. If the working temperature reaches or overpasses its maximum limits, an early degradation of the sealing lip may occur.

⚙ Power loss due to sealing lip friction on shaft

The graph below shows the power loss due to sealing lip friction on shaft for an SL rotary seal. Values are given for an application with a good lubrication. If a low friction is required, PTFE lip seals are recommended. Please contact Techné Technical Department for any advice.



These data are given for information only. These are suitable in standard working conditions with good lubrication and good heat removal out of the sealing area.

2) Dimensional recommendations

⚙ Shaft

For optimum sealing, design and manufacture of shaft must follow Techné recommendations.

Shaft Materials

The rotary shaft is recommended to be made of mechanical construction steel such as C35 or 1.0501. A protective coating may be added on shaft surface. The recommended coatings are those deponed with PVD, CVD or anodizing processes. Chromium coatings must be avoided, as their non-even wear-out may damage the sealing lips.

For applications in contact with water or food, stainless steel must be chosen.

Other materials, more ductile than steels such as plastics or metals, such as copper, brass, zinc or aluminum light alloys are usually not recommended. However they may be used in less demanding applications with slow rotation speed and clean environment free of abrasive dirt.

For protecting the shaft, a sliding sleeve can also be mounted.

Shaft hardness

The hardness of shaft must be selected depending on application rotation speed.

| Speed | Hardness |
|----------------------------|----------|
| Under 4 m.s ⁻¹ | 45 Hrc |
| 4 to 10 m.s ⁻¹ | 55 Hrc |
| Above 10 m.s ⁻¹ | 60 Hrc |

If the application environment is very abrasive (for example : construction machinery working in sand particles), shaft hardness must necessarily be of minimum 60 HRC.

For avoiding an expensive shaft hardening process, a sliding sleeve may be installed.

Shaft surface roughness

The shaft surface roughness is recommended to be in accordance with the following values

$$0.2 \mu\text{m} < \text{Ra} < 0.8 \mu\text{m}$$

$$1 \mu\text{m} < \text{Rz} < 5 \mu\text{m}$$

$$\text{Rmax} < 6.3 \mu\text{m}$$

A shaft surface roughness smoother than Ra 0.2 μm would lead to a too high friction between shaft and active sealing lip, then to a lip warming up, so to a potential quick ageing and up to a burning and irremediable damaging of the active sealing lip and then to a fluid leakage.

A shaft surface roughness rougher than Ra 0.8 μm would lead to a quick abrasion and irremediable damaging of the active sealing lip and then to a fluid leakage.

Shaft tolerances

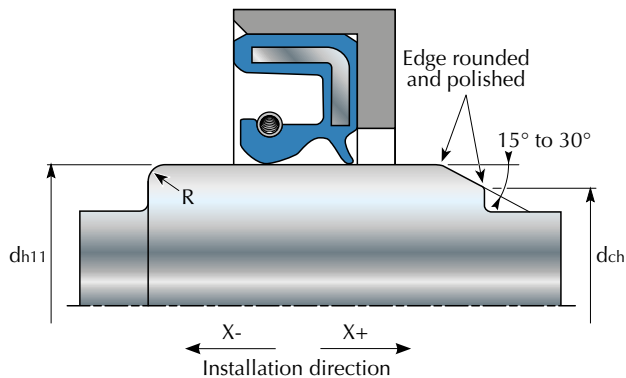
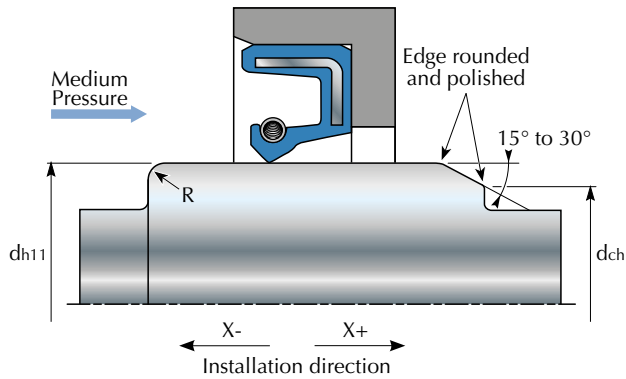
The shaft must respect the tolerances h11 according to the ISO 286-2.

| | | | | | | |
|---------|----------|----------|-----------|-----------|-----------|-----------|
| ∅ (mm) | ≤ 3 | 3 - 6 | 6 - 10 | 10 - 18 | 18 - 30 | 30 - 50 |
| IT (μm) | -60 / 0 | -75 / 0 | -90 / 0 | -110 / 0 | -130 / 0 | -160 / 0 |
| ∅ (mm) | 50 - 80 | 80 - 120 | 120 - 180 | 180 - 250 | 250 - 315 | 315 - 400 |
| IT (μm) | -190 / 0 | -220 / 0 | -250 / 0 | -290 / 0 | -320 / 0 | -360 / 0 |

Shaft radii or chamfers

Depending on installation direction, either X+ or X-, the shaft's end shall be constructed with a chamfer or with a radius:

- if installation in direction X+, a chamfer shall be made with angle 15° to 30° and diameter d_{ch}
- if installation in direction X-, a radius R shall be made.

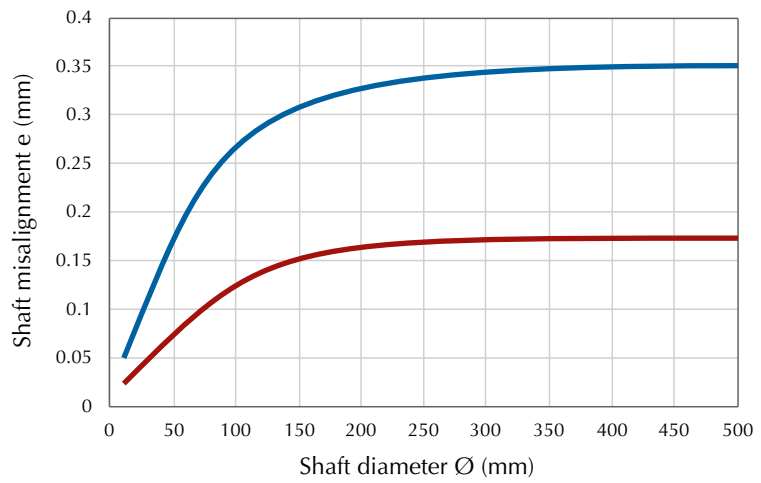
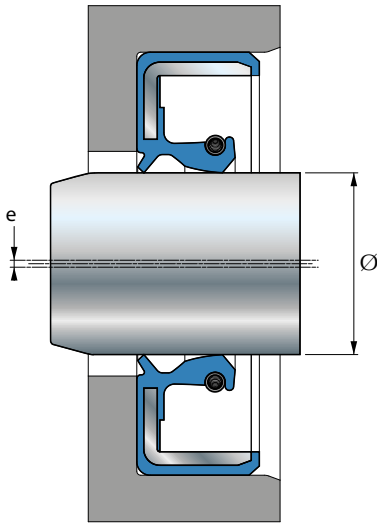


| d | d_{ch} | R |
|-----------------|--------------|----|
| < 10 | $d_1 - 1.5$ | 2 |
| over 10 to 20 | $d_1 - 2.0$ | 2 |
| over 20 to 30 | $d_1 - 2.5$ | 3 |
| over 30 to 40 | $d_1 - 3.0$ | 3 |
| over 40 to 50 | $d_1 - 3.5$ | 4 |
| over 50 to 70 | $d_1 - 4.0$ | 4 |
| over 70 to 95 | $d_1 - 4.5$ | 5 |
| over 95 to 130 | $d_1 - 5.5$ | 6 |
| over 130 to 240 | $d_1 - 7.0$ | 8 |
| over 240 to 500 | $d_1 - 11.0$ | 12 |

For rotary seals equipped with an anti-dust lip, a installation in direction X- is possible, but Techné recommends to prefer installation direction X+.

Shaft misalignment

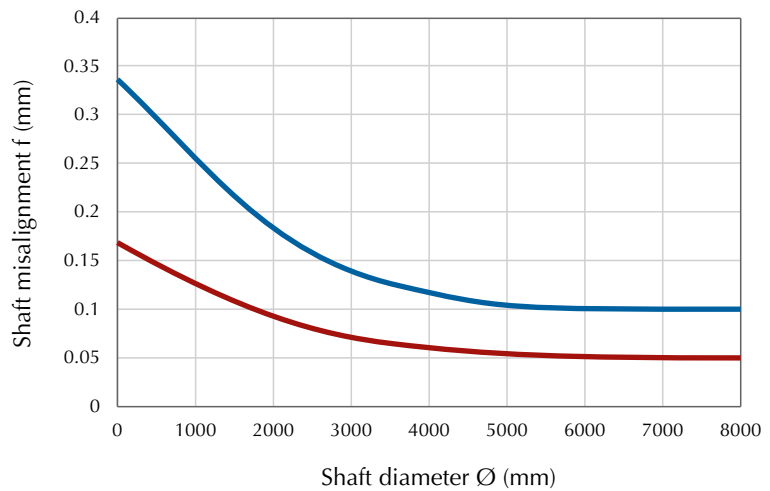
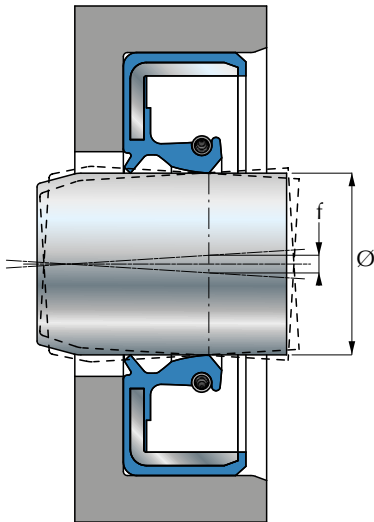
For an optimal working, shaft and housing must be aligned. A reduced shaft misalignment is authorised, but limited to the following values :



- Rubber lip seals
- PTFE lip seals and High Pressure rotary seals

Shaft run-out

When shaft is not perfectly guided, it may rotate unevenly. A reduced shaft run-out is authorised, but limited to the following values :



- Rubber lip seals
- PTFE lip seals and High Pressure rotary seals

⚙ Housing

Housing materials

A good fixing of rotary seals in their housings is required for the sealing function. Generally speaking, Techné recommends to set up rotary seals in housings made of materials with low thermal expansion.

If housings must be made of materials with a high thermal expansion (for ex. plastic, light alloys ...), Techné profiles ANSL & ANDL should be preferred.

To avoid any leakage, a calculation of the maximal housing diameter (when Temperature max. is reached) is necessary.

Roughness

For standard rotary seals (SL, DL, ANSL & ANDL) and other rubber covered types:

- $16\mu\text{m} < R_{\text{max}} < 25\mu\text{m}$
- $1,6\mu\text{m} < R_{\text{a}} < 6,3\mu\text{m}$
- $10\mu\text{m} < R_{\text{z}} < 25\mu\text{m}$

For types AEX, AEX, T2 & 1/2EN:

- $10\mu\text{m} < R_{\text{max}} < 16\mu\text{m}$
- $0,8\mu\text{m} < R_{\text{a}} < 3,2\mu\text{m}$
- $6,3\mu\text{m} < R_{\text{z}} < 16\mu\text{m}$

Housing tolerances

The housing must respect the tolerances H8 according to the ISO 286-2.

| | | | | | | |
|----------------|----------|-----------|-----------|-----------|-----------|---------|
| Ø (mm) | 6 - 10 | 10 - 14 | 14 - 18 | 18 - 30 | 30 - 50 | 50 - 80 |
| IT (µm) | 0 / +18 | 0 / +22 | 0 / +27 | 0 / +33 | 0 / +39 | 0 / +46 |
| Ø (mm) | 80 - 120 | 120 - 180 | 180 - 250 | 250 - 315 | 315 - 400 | |
| IT (µm) | 0 / +54 | 0 / +63 | 0 / +72 | 0 / +81 | 0 / +89 | |

Tolerances of rotary seals outer diameters

| O.D. (mm) | Standard case (smooth rubber O.D.) | Type AN (With ribs) | Type AE or T2 (O.D. without rubber) |
|-------------|---------------------------------------|------------------------|--|
| to Ø50 | +0.30 +0.15 | +0.40 +0.20 | +0.20 +0.10 |
| 50 - 80 | +0.35 +0.20 | +0.45 +0.25 | +0.23 +0.13 |
| 80 - 120 | +0.35 +0.20 | +0.45 +0.25 | +0.25 +0.15 |
| 120 - 180 | +0.45 +0.25 | +0.55 +0.30 | +0.28 +0.18 |
| 180 - 300 | +0.45 +0.25 | +0.55 +0.30 | +0.30 +0.20 |
| 300 - 400 | +0.55 +0.33 | +0.65 +0.35 | +0.35 +0.23 |
| 400 - 500 | +0.55 +0.33 | +0.65 +0.35 | +0.35 +0.23 |
| 500 - 630 | +0.65 +0.35 | +0.75 +0.40 | +0.43 +0.28 |
| 630 - 800 | +0.75 +0.40 | +0.85 +0.45 | +0.48 +0.33 |
| 800 - 1000 | +0.85 +0.45 | +0.95 +0.50 | +0.53 +0.38 |
| 1000 - 1250 | +1.00 +0.55 | +1.10 +0.60 | +0.60 +0.45 |

3) Materials

✦ Rotary seal materials

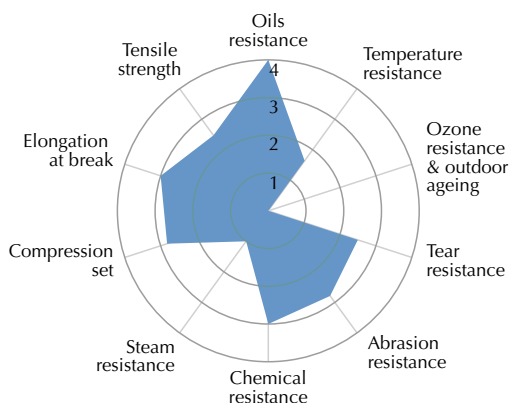
To determine the appropriate material of a rotary seal, several parameters shall be considered:

- Shaft rotation speed (see working parameters page 119)
- Working temperature plus the elevation of lip temperature (see working parameters page 121)
- Media in contact (gas, oil, water, chemicals ...)

✦ Rubber material

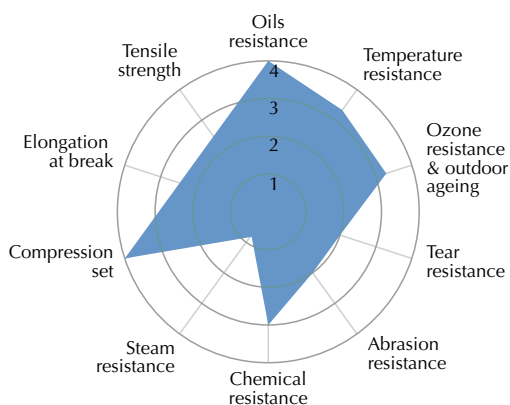
The graphs below help to chose the lip's material considering elastomers' characteristics:

NBR (Nitrile)



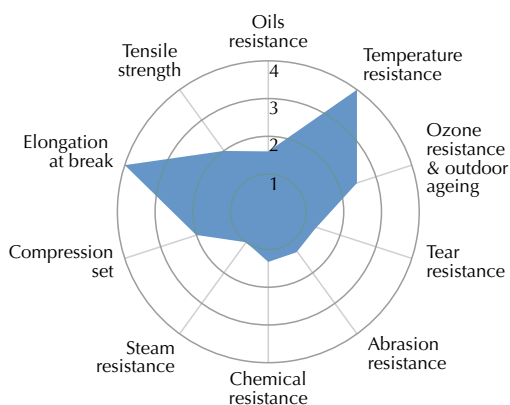
Because of its excellent oil resistance, low price and good mechanical properties, NBR is the most used rubber.

FKM (Fluoro elastomer)



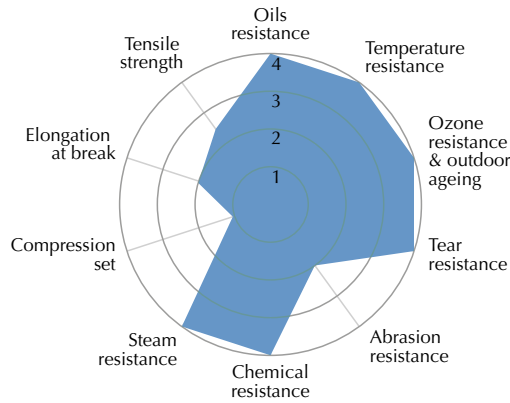
FKM is the reference rubber when high temperature or chemical resistance is needed. It is very resistant to UVs, ozone and outside conditions. It is also very resistant to oils as well as fuels.

VQM (Silicone)



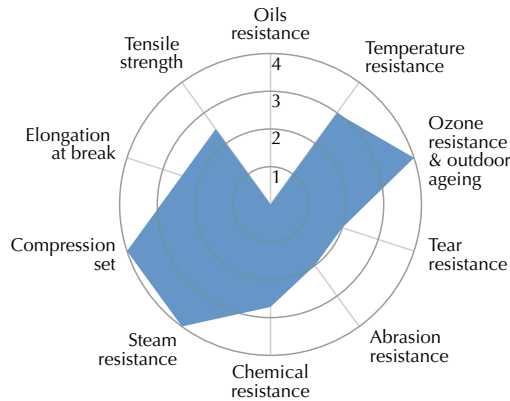
Silicone has the widest temperature range (-50/+200 °C) so it is often used in low as well as in high temperature applications.

PTFE (PolyTetraFluoroEthylene)



PTFE has the smallest friction coefficient. It also has an almost universal chemical compatibility, and a very wide temperature range (either low or high temperature, from -200 °C up to +250 °C)

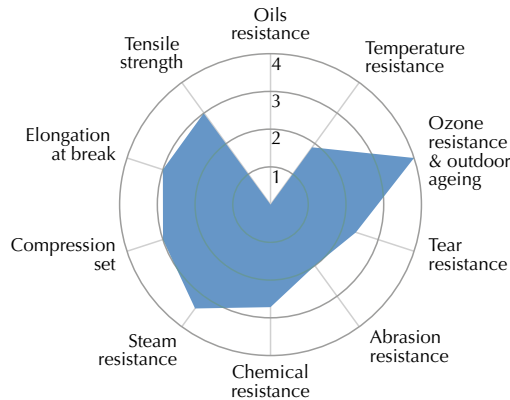
EPDM (Ethylene Propylene Diene Monomer)



Thanks to its excellent resistance to outside conditions (UV, ozone resistance, etc.), and its excellent compatibility with water and steam, EPDM is the second most used rubber in the sealing world. It is the most certified rubber.

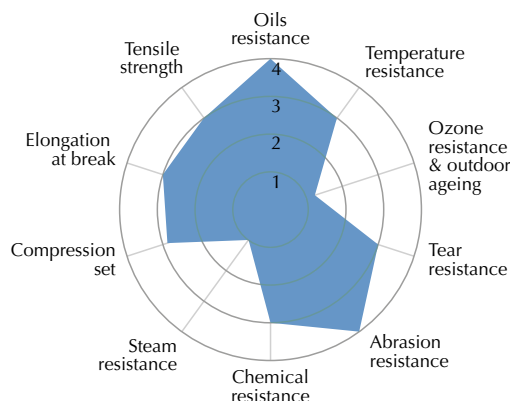
Peroxide or Sulfur cured EPDM:
The working temperature of your application will help Techné to choose in between sulfur cured EPDM (+100 °C) or peroxide cured EPDM (+150 °C).

Peroxide cured EPDM



Sulfur cured EPDM

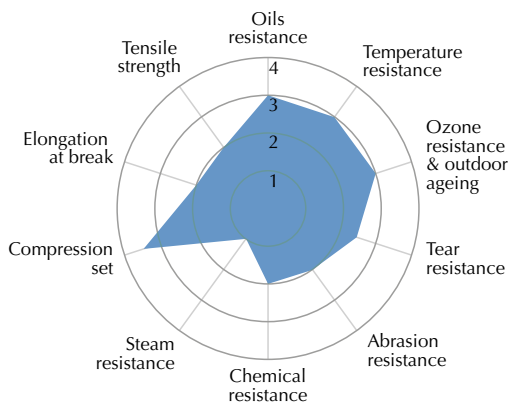
HNBR (Hydrogenerated nitrile)



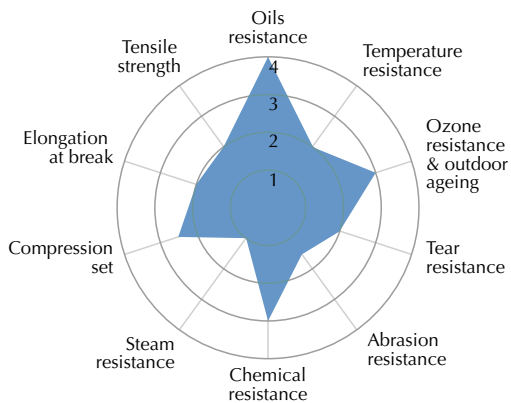
HNBR is used when NBR finds its limitations. HNBR has a wider temperature range, for an equivalent oil resistance. Ozone resistance is also better.

AEM (Polyacrylate) / ACM (Ethylene acrylate)

Both of them are specific materials, mostly used in automotive applications (transmissions, engines, gear boxes). They figure out homogeneous characteristics with a wide temperature range resistance.



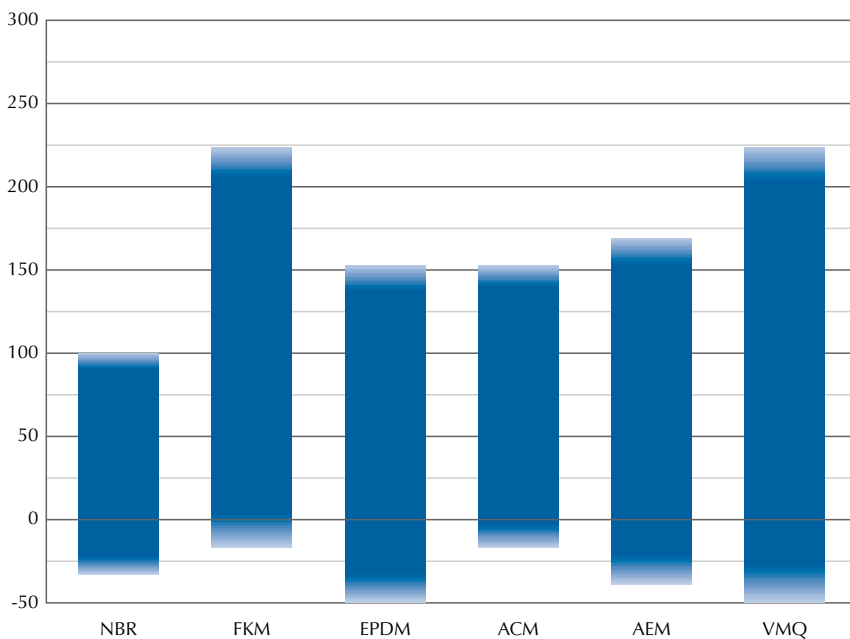
AEM



ACM

The graph below helps to compare the temperature resistances of several possible materials for a sealing lip:

T (C°)



⚙ Rubber / fluid resistance

The chart below shows the resistance of usual rubber materials towards most common fluids to be sealed. For more precise data, please contact Techné Technical department.

| Fluid | T (°C) | EPDM | NBR | AEM | VMQ | FKM |
|----------------------------|--------|------|-----|-----|-----|-----|
| Mineral oil | 100 | 4 | 1 | 1 | 3 | 1 |
| PAO oil | 100 | 4 | 1 | 1 | 3 | 1 |
| PAG oil | 100 | 2 | 2/3 | 1/2 | 3 | 1 |
| Silicone oil | 100 | 2 | 1 | 1 | 4 | 1 |
| Vegetable oil, animal fats | 80 | 2/3 | 1 | 1 | 2/3 | 1 |
| Kerosene | 20 | 4 | 1 | 2 | 4 | 1 |
| Acetone | 20 | 1 | 4 | 4 | 4 | 4 |
| Water | 20 | 1 | 1 | 1 | 1 | 1 |
| Water | 100 | 1 | 2 | 4 | 1 | 2/3 |
| Aqueous glycol | 100 | 1 | 1 | 4 | 1 | 2 |
| ATF oil | 100 | 4 | 1 | 4 | 3 | 1 |
| Reference oil ASTM1 | 100 | 4 | 1 | 1 | 2 | 1 |
| Reference oil ASTM2 | 100 | 4 | 1 | 1 | 2 | 1 |
| Reference oil ASTM3 | 100 | 4 | 1 | 1 | 3 | 1 |
| ATE liquid (brake fluid) | 100 | 1 | 4 | 4 | 2 | 4 |
| Fuel A | 60 | 4 | 1 | 3 | 4 | 1 |
| Fuel B | 60 | 4 | 2/3 | 4 | 4 | 1 |
| Fuel C | 60 | 4 | 4 | 4 | 4 | 1 |

1: Excellent ; 2: Good resistance ; 3: Average ; 4: To avoid

The chart below shows the resistance of usual rubber materials towards most common hydraulic fluids. For more precise data, please contact Techné Technical department.

| ISO 6743 | Designation | Application | NBR | HNBR | FKM | PU | PTFE | EPDM | MVQ |
|----------|-------------|-------------|-----------------------------------|------|-----|----|------|------|-----|
| | | | Maximum temperature admitted (°C) | | | | | | |

ISO 11158 - Minerals oils

| | | | | | | | | | |
|----|--|--|-----|-----|-----|-----|-----|---|-----|
| HH | Uninhibited pure mineral oils without additives | Only ensure power transmission, not protection nor lubrication. Not used a lot anymore | 100 | 130 | 150 | 110 | 200 | / | 150 |
| HL | Mineral oils with enhanced anti-oxidation | Excellent performance with water. Used under low pressure systems | 100 | 130 | 150 | 110 | 200 | / | 150 |
| HM | Same properties as HL oils but with enhanced wear proof properties | Widely used in high pressure systems | 100 | 130 | 150 | 110 | 200 | / | 150 |
| HV | Same properties as HM oils, but with enhanced temperature viscosities properties | Used in low temperature applications or with big temperature variations. Used in naval and automotive industries. Most widely used oils. | 100 | 130 | 150 | 110 | 200 | / | 150 |
| HG | Same properties as HV oils, but with anti-stick lip properties | Used in systems where sliding and hydraulic parts have a common circuit | 100 | 130 | 150 | 110 | 200 | / | 150 |

ISO 12922 - Hardly inflammable fluids

| | | | | | | | | | |
|------|---|---|-----|----|-----|----|-----|-----|-----|
| HFAE | Oil emulsions in water (more than 95% of water) | Used in large hydraulic systems with a high leak risk. Hydraulic presses. | 60 | 60 | 60 | 40 | 60 | 60 | 60 |
| HFAS | Aqueous chemical (more than 95%) | Used in large hydraulic systems with a high leak risk. Hydraulic presses. | 60 | 60 | 60 | 40 | 60 | 60 | 60 |
| HFB | Oil emulsions in water (more than 40% of water) | Rarely used | 60 | 60 | 60 | 40 | 60 | / | 60 |
| HFC | Aqueous polymers solution (polyethylene glycol or polypropylene) with more than 35% water | Most widely used. Used in industrial systems where maximum temperature does not exceed 60 °C with average pressures | 60 | 60 | 60 | / | 60 | / | 60 |
| HFDR | Synthetic fluids without water, based in phosphoric ester | Used in high temperatures and high pressure systems | / | / | 100 | / | 100 | 100 | 100 |
| HFDU | Synthetic fluids of different composition | | 100 | / | 100 | / | 100 | / | 100 |

ISO 15380 - Bio compatible fluids

| | | | | | | | | | |
|------|---|--------------------------------------|----|-----|-----|----|-----|---|-----|
| HETG | Vegetable oils | Agricultural and forest applications | 60 | 80 | 80 | 60 | 80 | / | 80 |
| HEPG | Polyglycols | Water protection applications | 60 | 100 | 100 | 60 | 100 | / | 100 |
| HEES | Synthetic esters | Construction machinery | 60 | 100 | 100 | 60 | 100 | / | 100 |
| HEPR | Polyalphaolefins and hydrocarbon products | | 60 | 100 | 100 | 60 | 100 | / | 100 |

✦ Coatings

For high-end applications, where a very low friction force is required, Techné offers a full range of coatings, adapted to customers' applications and counterfaces' materials.

Advantages

- Noise reduction in house appliances.
- Used in high temperature.
- Performance increase in competition sport equipments.
- Extended service life time for industrial machines.
- Anti stick-slip effect.

Limitation

- The whole shaft seal will be coated, incl. outer diameter.

✦ Metal case material

Standard metal case material is : low Carbon steel DC01-270*
 * DC01-270 or 1.0330A or JIS G3141 SPCC-S (with tensile strength > 270 Mpa)

On demand, Techné can provide stainless steels :

- EN 1.4310 / AISI 301 : X10CrNi18-8
- EN 1.4301 / AISI 304 : X5CrNi18-10
- EN 1.4401 / AISI 316 : X5CrNiMo17-12-2

✦ Spring material

Standard spring materials are:

- For NBR rotary shaft seals: carbon steel
- for FKM rotary shaft seals: EN 1.4301 / AISI 304

On demand, Techné can provide springs in following stainless steels :

- EN 1.4310 / AISI 301 : X10CrNi18-8
- EN 1.4301 / AISI 304 : X5CrNi18-10
- EN 1.4401 / AISI 316 : X5CrNiMo17-12-2
- EN 1.4571 / AISI 316Ti: X6CrNiMoTi17-12-2

Hastelloy® , high-performance nickel- and cobalt-based alloy with good resistance against chemical acid corrosion.

✦ Storage

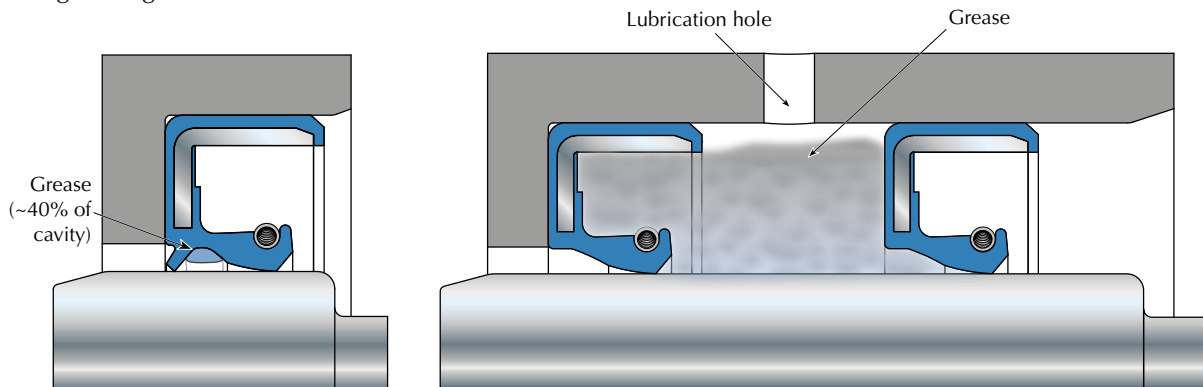
According to ISO 2230 standard, rotary seals shall be stored according to following recommendations:

- Duration:
 - NBR, AEM and ACM: 7 years max.
 - FKM, EPDM, VMQ and HNBR: 10 years max.
- Temperature: Storage temperature shall not exceed 25°C. Rotary seals shall be kept away from heat sources (Radiator, direct sunlight...).
- Light: Rubber must be protected from direct sunlight and UVs.
- Radiation: exposition to ionizing radiations must be avoided.
- Ozone: Rotary seals shall be kept away from equipment which generate Ozone (mercury light...). Organic vapours, combustion gases, which could lead to a photochemical reaction and increase the ozone level shall be avoided.
- Contact: rotary seals must not be in contact with any liquids or vapours.

◆ Fitting

Preparation:

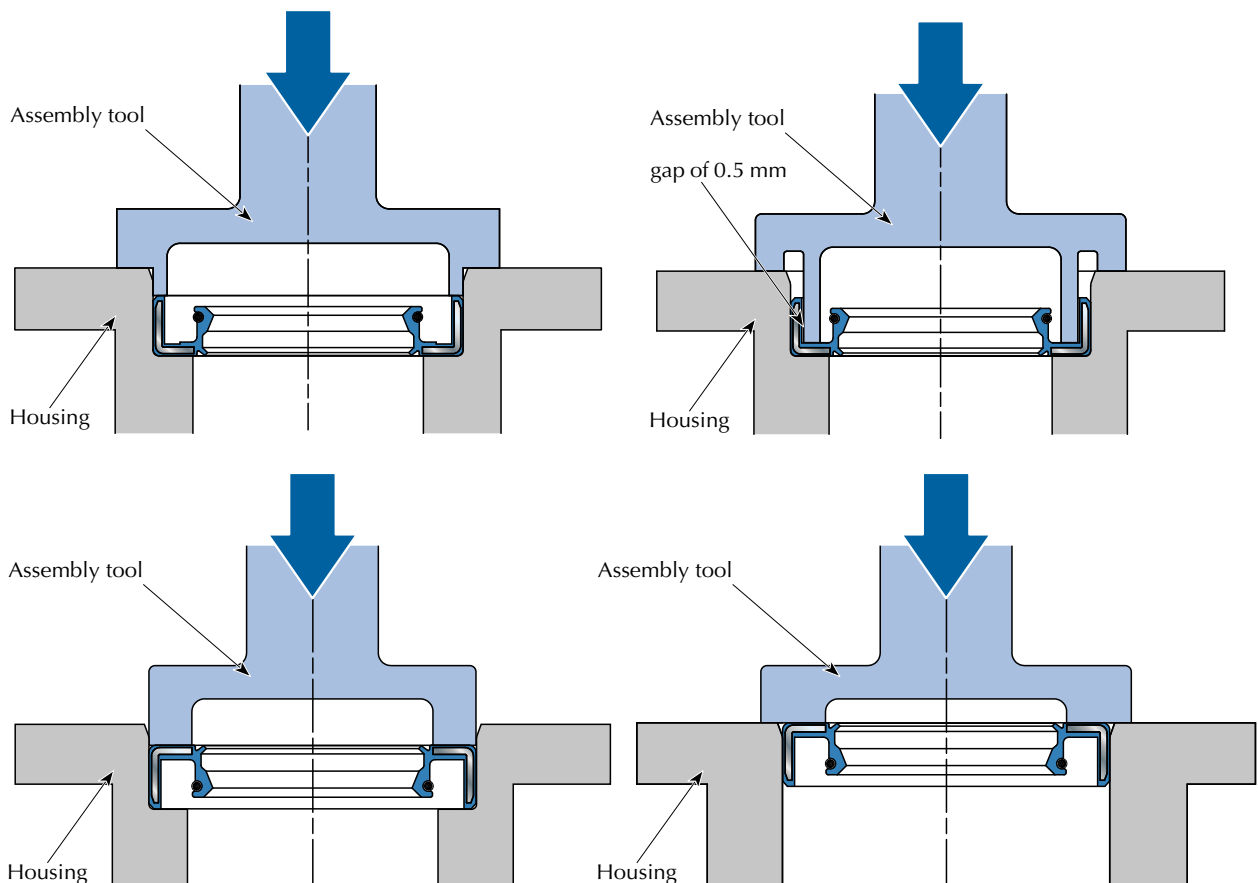
- Before fitting, ensure that there are no remaining sharp edges on housing and shaft which may damage the rotary shaft seal
- shaft and housing shall be cleaned before fitting
- Rotary shaft seal lip and shaft shall be greased or oiled before fitting
- For multi-lips seals (DL, DLO ...), Techné recommends to fill the gap between the lips with approx. 40 to 60% grease.
- When several rotary shaft seals are fitted in line, the gap between the seals shall be filled with grease. A regular grease volume shall be maintained to grant a good lubrication.



Assembly with a press

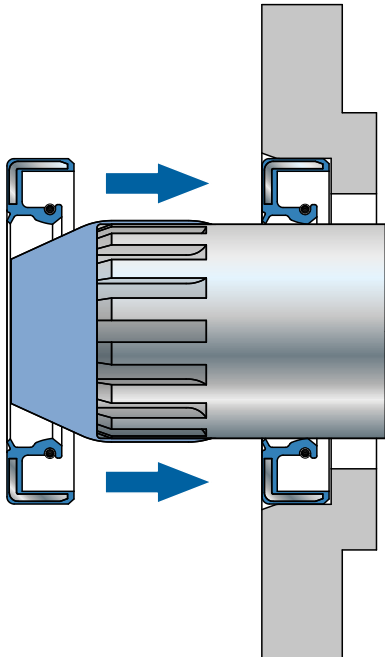
Techné recommends to assemble rotary shaft seals with the help of a hydraulic or a pneumatic press to provide a regular pressure on the seal and avoid a deformation of the metal case.

Assembly tools with different shapes shall be used, depending on the rotary shaft seal's dimension.



Mounting cone

To fit the rotary shaft seal on the shaft, Techné recommends to set up a mounting cone to grant a good positioning of the sealing lip on the shaft.



Design sheet

Date: / /

Company name:

Address:

Contact name:

E-mail:

Tel.:

Annual quantity:

Delivery in batches of:

Material (if known):

Rubber:

Metal case:

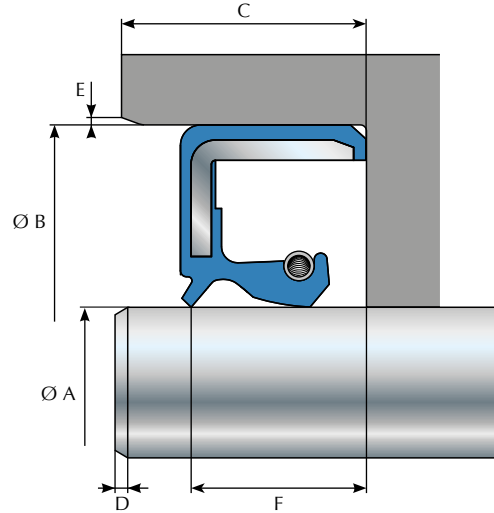
Spring:

Existing customer drawing: Yes No

Application(Automotive...):

Existing customer sample: Yes No

Equipment (Pump, Motor...):



A: Shaft outer diameter

B: Housing inner diameter

C: Seal's width max (outer diameter)

D: Shaft chamfer's length & angle

E: Housing chamfer's length & angle

F: Seal's width max (inner diameter)

OEM/Aftermarket

| | Material | Surface roughness (Ra or Rz or Rmax) | Hardness (HRC) |
|---------|----------------------|--------------------------------------|----------------------|
| Shaft | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| Housing | <input type="text"/> | <input type="text"/> | <input type="text"/> |

Working conditions

| | Min | Working | Max |
|------------------|----------------------|----------------------|----------------------|
| Pressure (bar) | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| Temperature (°C) | <input type="text"/> | <input type="text"/> | <input type="text"/> |

Fluid (or gas) in contact

| | Description | Art of contact (immersion, projection, ...) |
|----------|----------------------|---|
| Internal | <input type="text"/> | <input type="text"/> |
| External | <input type="text"/> | <input type="text"/> |

Mouvements

Type of use: Continuous Intermittent

Use frequency (hours/years):

Max shaft misalignment:

Max shaft run out:

Shaft positioning: Vertical Horizontal

(in working conditions)

* Rotative

| | Min | Working | Max |
|----------------------|----------------------|----------------------|----------------------|
| Rotation speed (RPM) | <input type="text"/> | <input type="text"/> | <input type="text"/> |

Max shaft translative movement (if any):

Direction from airside: Clockwise Counterclockwise bi-directionnal

Ocillating: Rotary arc angle

Frequency (cylce/min)

Reciprocating: stroke (mm)

Frequency (cylce/min)

Guiding type

Bearing Bushes

Any additionnal information / requirement

Index

| | A | B | C | D | E |
|---|--|--|---|--|---|
| 1 | SL | DL | DLO | SL SR | DL SR |
| |  |  |  |  |  |
| | NBR : 22.2100 NBR (RI) : 22.2013 FKM : 22.2200 FKM green : 22.2201 VMQ : 22.2400 | NBR : 22.2110 NBR (RI) : 22.2113 FKM : 22.2210 VMQ : 22.2410 VMQ green : 22.2409 | NBR : 22.2011 NBR (RI) : 22.2117 FKM (RI) : 22.2262 | NBR : 22.2160 FKM : 22.2260 VMQ : 22.2460 | NBR : 22.2109 FKM : 22.2213 |
| 2 | AE SL | AE DL | AE DLO | AE SL RI | AE DL RN |
| |  |  |  |  |  |
| | NBR : 22.2032 FKM : 22.2204 | FKM : 22.2214 | NBR : 22.2116 | EPDM : 22.2907 | NBR : 22.2107 FKM : 22.2278 |
| 3 | AEX SL | AEX DL | AEX DLO | AEX SL SR | AEX DL SR |
| |  |  |  |  |  |
| | NBR : 22.2300 FKM : 22.2230 VMQ : 22.2455 ACM : 22.2804 | NBR : 22.2140 FKM : 22.2240 | NBR : 22.2361 FKM : 22.2360 | NBR : 22.2155 NBR (Ai) : 22.2127 FKM : 22.2250 VMQ : 22.2450 | NBR : 22.2156 FKM : 22.2251 |
| 4 | AN SL | AN DL | AN SL SR | 1/2EN DL HD | 1/2EN DL HG |
| |  |  |  |  |  |
| | NBR : 22.2120 FKM : 22.2291 | NBR : 22.2121 FKM : 22.2290 | NBR : 22.2122 FKM : 22.2211 ACM : 22.2940 | FKM : 22.2296 VMQ : 22.2496 | FKM : 22.2295 VMQ : 22.2196 |
| 5 | 1/2E SL | 1/2E DL | 1/2E DL HD | 1/2E DL HG | AEX SL HD |
| |  |  |  |  |  |
| | NBR : 22.2191 FKM : 22.2220 | NBR : 22.2192 | FKM : 22.2292 ACM : 22.2892 | FKM : 22.2294 | VMQ : 22.2442 ACM : 22.2805 |

| F | G | H | I | J | |
|---|--|--|---|--|---|
| SL HD  NBR : 22.2102 FKM : 22.2297 VMQ : 22.2402 ACM : 22.2802 | SL HG  NBR : 22.2103 FKM : 22.2289 VMQ : 22.2403 ACM : 22.2803 | SL HDS  NBR : 22.2190 FKM : 22.2283 VMQ : 22.2406 ACM : 22.2801 | AN SL HD  FKM : 22.2203 VMQ : 22.2421 | AN SL HG  NBR : 22.2104 FKM : 22.2284 VMQ : 22.2404 ACM : 22.7010 | 1 |
| AN SL HDS  AEM : 22.7252 | DL HD  NBR : 22.2114 FKM : 22.2285 VMQ : 22.2412 ACM : 22.2812 AEM : 22.7212 | DL HG  NBR : 22.2112 FKM : 22.2286 VMQ : 22.2413 ACM : 22.2813 | DL HDS  FKM : 22.2287 ACM : 22.2814 | AN DL HD  NBR : 22.2128 FKM : 22.2282 VMQ : 22.2422 ACM : 22.2822 ACM/FKM : 22.7001 AEM/FKM : 22.7002 | 2 |
| AN DL HG  FKM : 22.2281 VMQ : 22.2423 ACM : 22.2821 ACM/FKM : 22.7000 AEM/FKM : 22.7004 | AN DL HDS  NBR : 22.2129 FKM : 22.2298 | T2 SL  NBR : 22.2350 FKM : 22.2355 | T2 DL  NBR : 22.2354 FKM : 22.2254 | K7  NBR : 22.9000 | 3 |
| SLE  NBR : 22.2700 FKM : 22.2202 | AEX SLE  NBR : 22.2301 | SLE SR  NBR : 22.2701 | DLE  NBR : 22.2710 | AEX DLE  NBR : 22.2720 | 4 |
| SL HP  NBR : 22.2175 NBR (Al&Rl): 22.2171 FKM : 22.2217 | DL HP  NBR : 22.2170 FKM : 22.2270 EPDM : 22.2920 | DL HP10  FKM : 22.2215 | AEX DLP  NBR : 22.2141 | AI P-SL SER  NBR + PTFE/glass/ MoS2 : 22.2520 FKM + PTFE/glass/ MoS2 : 22.2502 | 5 |

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| 1/2 DL HG | D5 | 22.2011 | C1 | 22.2260 | D1 | 22.2801 | H1 |
| 1/2 EN DL HD | D4 | 22.2013 | A1 | 22.2262 | C1 | 22.2802 | F1 |
| 1/2 SL | A5 | 22.2032 | A2 | 22.2270 | G5 | 22.2803 | G1 |
| 1/2E DL | B5 | 22.2100 | A1 | 22.2278 | E2 | 22.2804 | A3 |
| 1/2E DL HD | C5 | 22.2102 | F1 | 22.2281 | F3 | 22.2805 | E5 |
| 1/2EN DL HG | E4 | 22.2103 | G1 | 22.2282 | J2 | 22.2812 | G2 |
| AE DL | B2 | 22.2104 | J1 | 22.2283 | H1 | 22.2813 | H2 |
| AE DL RN | E2 | 22.2107 | E2 | 22.2284 | J1 | 22.2814 | I2 |
| AE DLO | C2 | 22.2109 | E1 | 22.2285 | G2 | 22.2821 | F3 |
| AE SL | A2 | 22.2110 | B1 | 22.2286 | H2 | 22.2822 | J2 |
| AE SL RI | D2 | 22.2112 | H2 | 22.2287 | I2 | 22.2892 | C5 |
| AEX | A3 | 22.2113 | B1 | 22.2289 | G1 | 22.2907 | D2 |
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| AN DL | B4 | 22.2140 | B3 | 22.2301 | G4 | 22.9000 | J3 |
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| AN SL | A4 | 22.2160 | D1 | 22.2360 | C3 | | |
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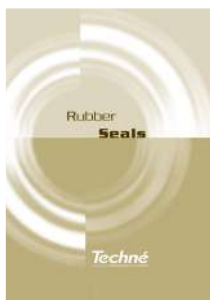
Techné's information



Surface coatings



Sliding



Rubber sealing



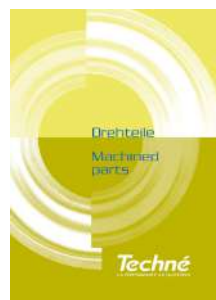
Hydraulic seals



Gaskets



Aseptic seals



Machined parts



40 allée des Haies
69480 Morancé

OEM

Phone: +33 (0)4 78 43 12 72
E-mail: oem@techne.fr

Hydroméca

Phone: +33 (0)4 72 47 24 97
E-mail: hydromeca@techne.fr

TechniPôle

Phone: +33 (0)4 72 47 24 98
E-mail: technipole@techne.fr

Distribution

Phone: +33 (0)4 78 43 12 70
E-mail: distribution@techne.fr

Créat

Phone: +33 (0)4 37 46 20 01
E-mail: creat@creat.fr

Chromex

Phone: +33 (0)1 69 92 16 30
E-mail: chromex@chromex.info

Techné Shanghai

Phone: +86 21 6473 8417
E-mail: techneshanghai@techne.cn

Techné Turkey

Phone: +90 (0) 216 989 10 04
E-mail: turkey@techne.fr



techne.fr