

NOK General Oil Seals

VR_{Type}

Nitrile rubber (NBR) oil seal

Fluorocarbon rubber (FKM) oil seal



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- When ordering, please indicate the NOK part number and the relevant dimensions.
- Check the Guide to Allowable Operating Conditions on pages E-8 and E-9 for relevant information on the seal selected before use.

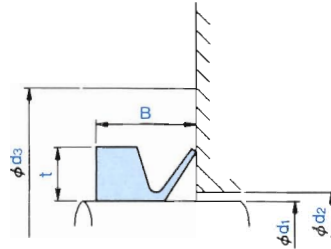
| | |
|--------------|----------------------------------|
| Lip Material | NBR : NOK A134 ACM : NOK F129 |
|--------------|----------------------------------|

VR Type

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| Material | Nitrile (NBR) |
| | Fluorocarbon (FKM) |

● The sectional view on the right shows the typical profile of the seal type.

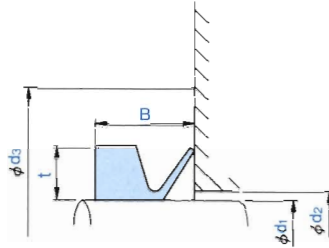


Note: This oil seal may be used with shaft diameters in the ranges shown. However, we recommend using it at the recommended nominal shaft diameter.

| Nominal number | Recommended shaft diameter d_1 | Usable shaft diameter (See Note) | Area required for seal | | | | Part Number | |
|----------------|----------------------------------|----------------------------------|------------------------|------------------------|--------------------------------------|-------------|----------------------|---------------------------|
| | | | Width B | Maximum diameter d_2 | Required minimum face diameter d_3 | Thickness t | Nitrile rubber (NBR) | Fluorocarbon rubber (FKM) |
| VR 3A | 3 | 2.7~3.5 | 2.5 | d_1+1 | d_1+4 | 1.5 | BM 1201 A0 | BM 1201 A3 |
| VR 4A | 4 | 3.5~4.5 | | | | | BM 1202 A0 | BM 1202 A3 |
| VR 5A | 5 | 4.5~5.5 | | | | | BM 1203 A0 | BM 1203 A3 |
| VR 6A | 6 | 5.5~6.5 | 3 | d_1+1 | d_1+6 | 2 | BM 1204 A0 | BM 1204 A3 |
| VR 7A | 7 | 6.5~7.5 | | | | | BM 1205 A0 | BM 1205 A3 |
| VR 8A | 8 | 7.5~8.5 | | | | | BM 1206 A0 | BM 1206 A3 |
| VR 10A | 10 | 9.5~11.5 | | | | | BM 1207 A0 | BM 1207 A3 |
| VR 12A | 12 | 11.5~12.5 | | | | | BM 1208 A0 | BM 1208 A3 |
| VR 13A | 13 | 12.5~13.5 | 4.5 | d_1+2 | d_1+9 | 3 | BM 1209 A0 | BM 1209 A3 |
| VR 14A | 14 | 13.5~15.5 | | | | | BM 1210 A0 | BM 1210 A3 |
| VR 16A | 16 | 15.5~17.5 | | | | | BM 1211 A0 | BM 1211 A3 |
| VR 18A | 18 | 17.5~19 | | | | | BM 1212 A0 | BM 1212 A3 |
| VR 20A | 20 | 19~21 | | | | | BM 1213 A0 | BM 1213 A3 |
| VR 22A | 22 | 21~24 | | | | | BM 1214 A0 | BM 1214 A3 |
| VR 25A | 25 | 24~27 | | | | | BM 1215 A0 | BM 1215 A3 |
| VR 28A | 28 | 27~29 | 6 | d_1+3 | d_1+12 | 4 | BM 1216 A0 | BM 1216 A3 |
| VR 30A | 30 | 29~31 | | | | | BM 1217 A0 | BM 1217 A3 |
| VR 32A | 32 | 31~33 | | | | | BM 1218 A0 | BM 1218 A3 |
| VR 35A | 35 | 33~36 | | | | | BM 1219 A0 | BM 1219 A3 |
| VR 38A | 37 | 36~38 | | | | | BM 1220 A0 | BM 1220 A3 |
| VR 40A | 40 | 38~43 | | | | | BM 1221 A0 | BM 1221 A3 |
| VR 45A | 45 | 43~48 | | | | | BM 1222 A0 | BM 1222 A3 |
| VR 50A | 50 | 48~53 | 7 | d_1+3 | d_1+15 | 5 | BM 1223 A0 | BM 1223 A3 |
| VR 55A | 55 | 53~58 | | | | | BM 1224 A0 | BM 1224 A3 |
| VR 60A | 60 | 58~63 | | | | | BM 1225 A0 | BM 1225 A3 |
| VR 65A | 65 | 63~68 | | | | | BM 1226 A0 | BM 1226 A3 |
| VR 70A | 70 | 68~73 | | | | | BM 1227 A0 | BM 1227 A3 |
| VR 75A | 75 | 73~78 | | | | | BM 1228 A0 | BM 1228 A3 |
| VR 80A | 80 | 78~83 | | | | | BM 1229 A0 | BM 1229 A3 |
| VR 85A | 85 | 83~88 | 9 | d_1+4 | d_1+18 | 6 | BM 1230 A0 | BM 1230 A3 |
| VR 90A | 90 | 88~93 | | | | | BM 1231 A0 | BM 1231 A3 |
| VR 95A | 95 | 93~98 | | | | | BM 1232 A0 | BM 1232 A3 |
| VR100A | 100 | 98~105 | | | | | BM 1233 A0 | BM 1233 A3 |
| VR110A | 110 | 105~115 | | | | | BM 1234 A0 | BM 1234 A3 |
| VR120A | 120 | 115~125 | | | | | BM 1235 A0 | BM 1235 A3 |
| VR130A | 130 | 125~135 | 10.5 | d_1+4 | d_1+21 | 7 | BM 1236 A0 | BM 1236 A3 |
| VR140A | 140 | 135~145 | | | | | BM 1237 A0 | BM 1237 A3 |
| VR150A | 150 | 145~155 | | | | | BM 1238 A0 | BM 1238 A3 |
| VR160A | 160 | 155~165 | 12 | d_1+5 | d_1+24 | 8 | BM 1239 A0 | BM 1239 A3 |
| VR170A | 170 | 165~175 | | | | | BM 1240 A0 | BM 1240 A3 |

VR Type

Material Nitrile (NBR)
Fluorocarbon (FKM)



● The sectional view on the right shows the typical profile of the seal type.

Note: This oil seal may be used with shaft diameters in the ranges shown. However, we recommend using it at the recommended nominal shaft diameter.

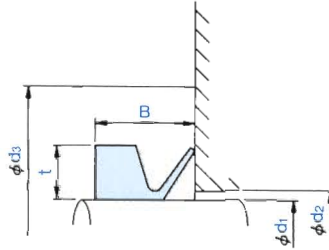
| Nominal number | Recommended shaft diameter d_1 | (See Note) Usable shaft diameter | Area required for seal | | | | Part Number | |
|----------------|----------------------------------|-------------------------------------|------------------------|------------------------|--------------------------------------|-------------|----------------------|---------------------------|
| | | | Width B | Maximum diameter d_2 | Required minimum face diameter d_3 | Thickness t | Nitrile rubber (NBR) | Fluorocarbon rubber (FKM) |
| VR 180A | 180 | 175~185 | 12 | d_1+5 | d_1+24 | 8 | BM 1241 A0 | BM 1241 A3 |
| VR 190A | 190 | 185~195 | | | | | BM 1242 A0 | BM 1242 A3 |
| VR 199A | 199 | 195~210 | | | | | BM 1243 A0 | BM 1243 A3 |
| VR 200A | 200 | 190~210 | | | | | BM 1244 A0 | BM 1244 A3 |
| VR 220A | 220 | 210~235 | | | | | BM 1245 A0 | BM 1245 A3 |
| VR 250A | 250 | 235~265 | | | | | BM 1246 A0 | BM 1246 A3 |
| VR 275A | 275 | 265~290 | | | | | BM 1247 A0 | BM 1247 A3 |
| VR 300A | 300 | 290~310 | | | | | BM 1248 A0 | BM 1248 A3 |
| VR 325A | 325 | 310~335 | | | | | BM 1249 A0 | BM 1249 A3 |
| VR 350A | 350 | 335~365 | | | | | BM 1250 A0 | BM 1250 A3 |
| VR 375A | 375 | 365~390 | | | | | BM 1251 A0 | BM 1251 A3 |
| VR 400A | 400 | 390~430 | | | | | BM 1252 A0 | BM 1252 A3 |
| VR 450A | 450 | 430~480 | | | | | BM 1253 A0 | BM 1253 A3 |
| VR 500A | 500 | 480~530 | | | | | BM 1254 A0 | BM 1254 A3 |
| VR 550A | 550 | 530~580 | | | | | BM 1255 A0 | BM 1255 A3 |
| VR 600A | 600 | 580~630 | | | | | BM 1256 A0 | BM 1256 A3 |
| VR 650A | 650 | 630~665 | | | | | BM 1257 A0 | BM 1257 A3 |
| VR 700A | 700 | 665~705 | BM 1258 A0 | BM 1258 A3 | | | | |
| VR 725A | 725 | 705~745 | BM 1259 A0 | BM 1259 A3 | | | | |
| VR 750A | 750 | 745~785 | BM 1260 A0 | BM 1260 A3 | | | | |
| VR 800A | 800 | 785~830 | 20 | d_1+10 | d_1+45 | 15 | BM 1261 A0 | BM 1261 A3 |
| VR 850A | 850 | 830~875 | | | | | BM 1262 A0 | BM 1262 A3 |
| VR 900A | 900 | 875~920 | | | | | BM 1263 A0 | BM 1263 A3 |
| VR 950A | 950 | 920~965 | | | | | BM 1264 A0 | BM 1264 A3 |
| VR1000A | 1000 | 965~1015 | | | | | BM 1265 A0 | BM 1265 A3 |
| VR1050A | 1050 | 1015~1065 | | | | | BM 1266 A0 | BM 1266 A3 |
| VR1100A | 1100 | 1065~1115 | | | | | BM 1267 A0 | BM 1267 A3 |
| VR1150A | 1150 | 1115~1165 | | | | | BM 1268 A0 | BM 1268 A3 |
| VR1200A | 1200 | 1165~1215 | | | | | BM 1269 A0 | BM 1269 A3 |
| VR1250A | 1250 | 1215~1270 | | | | | BM 1270 A0 | BM 1270 A3 |
| VR1300A | 1300 | 1270~1320 | | | | | BM 1271 A0 | BM 1271 A3 |
| VR1350A | 1350 | 1320~1370 | | | | | BM 1272 A0 | BM 1272 A3 |
| VR1400A | 1400 | 1370~1420 | | | | | BM 1273 A0 | BM 1273 A3 |
| VR1450A | 1450 | 1420~1470 | | | | | BM 1274 A0 | BM 1274 A3 |
| VR1500A | 1500 | 1470~1520 | | | | | BM 1275 A0 | BM 1275 A3 |
| VR1550A | 1550 | 1520~1570 | | | | | BM 1276 A0 | BM 1276 A3 |
| VR1600A | 1600 | 1570~1620 | | | | | BM 1277 A0 | BM 1277 A3 |
| VR1650A | 1650 | 1620~1670 | BM 1278 A0 | BM 1278 A3 | | | | |
| VR1700A | 1700 | 1670~1720 | BM 1279 A0 | BM 1279 A3 | | | | |
| VR1750A | 1750 | 1720~1770 | BM 1280 A0 | BM 1280 A3 | | | | |

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| Nominal number | Recommended shaft diameter d_1 | (See Note) Usable shaft diameter | Area required for seal | | | | Part Number | |
|----------------|----------------------------------|-------------------------------------|------------------------|------------------------|--------------------------------------|---------------|----------------------|---------------------------|
| | | | Width B | Maximum diameter d_2 | Required minimum face diameter d_3 | Thickness t | Nitrile rubber (NBR) | Fluorocarbon rubber (FKM) |
| VR1800A | 1800 | 1770~1820 | 20 | d_1+10 | d_1+45 | 15 | BM 1281 A0 | BM 1281 A3 |
| VR1850A | 1850 | 1820~1870 | | | | | BM 1282 A0 | BM 1282 A3 |
| VR1900A | 1900 | 1870~1920 | | | | | BM 1283 A0 | BM 1283 A3 |
| VR1950A | 1950 | 1920~1970 | | | | | BM 1284 A0 | BM 1284 A3 |
| VR2000A | 2000 | 1970~2020 | | | | | BM 1285 A0 | BM 1285 A3 |
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