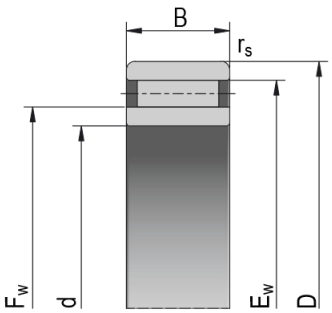
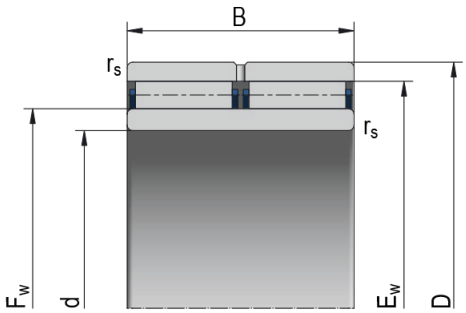
# Needle roller bearings without flanges




NAO




NAO

| Bearing Designation | NAO 12x28x12 |
|---|---|

## Dimensions (mm)

| | | | |
|---|---|---|---|
| d | 12 | s | 0,50 |
| D | 28 | $d_1$ | 15,70 |
| B | 12,0 | $D_1$ | 16,40 |
| $F_w$ | 16,0 | $d_2$ | 21,60 |
| $E_w$ | 22 | $D_2$ | 22,30 |
| $r_{s\ min}$ | 0,30 | $r_{a\ max}$ | 0,30 |

## Basic Load Rating (kN)

| | |
|---|---|
| C | 11,50 |
| $C_0$ | 12,50 |

## Limiting Speed for Lubrication ($min^{-1}$)

| | |
|---|---|
| Oil | 23000 |

| Weight [g] | 40,00 |
|---|---|

ZVL SLOVAKIA, a.s. • Na stanicu 22 • 010 09 Žilina • Slovakia
phone.: +421 41 707 60 32 • fax: +421 41 707 60 24
sales.zvl@zvlslovakia.sk • www.zvlslovakia.sk