

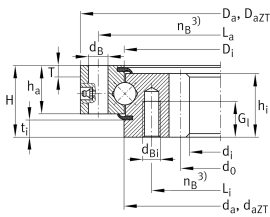


VSI250955-N

Slewing ring, 4 point contact bearing, internal gear teeth

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Technical information



Your current product variant

| | | |
|---------|---|---------------------------------------|
| Gearing | N | Normalized gear teeth on bearing ring |
|---------|---|---------------------------------------|

Main Dimensions & Performance Data

| | | |
|-------------|----------|------------------------------|
| d_1 | 810 mm | Bore Diameter |
| T | 19 mm | Length centering inner ring |
| H | 80 mm | Height |
| D_a | 1.055 mm | Outside Diameter |
| T | 15 mm | Length centering outer ring |
| h_a | 54 mm | Width outer ring |
| h_i | 71 mm | Width inner ring |
| | 0,03 mm | Normal radial clearance min. |
| | 0,13 mm | Normal radial clearance max. |
| | 0,05 mm | Normal axial clearance min. |
| | 0,24 mm | Normal axial clearance max. |
| $\approx m$ | 149 kg | Weight |



Dimensions

| | | |
|---------------------|-----------|---|
| D_i | 953 mm | Inner diameter outer ring |
| L_a | 1.015 mm | Pitchcircle diameter fixing holes outer ring |
| n_a | 30 | Number of fixing holes in outer ring |
| d_B | 22 mm | Fixing bore |
| d_a | 957 mm | Outside diameter inner ring |
| L_i | 894 mm | Pitchcircle diameter fixing holes inner ring |
| d_{Bi} | M20 | Tread fixing bore |
| G_i | 40 mm | Thread depth fixing hole |
| n_i | 30 | Number of fixing holes in inner ring |
| $F_{r\text{ zul}}$ | 363.300 N | Max. radial load fixing screws (friction locking) |
| m | 10 mm | Modul of gearing |
| z | 83 | Number of teeth |
| d_0 | 830 mm | Pitch circle diameter gearing |
| $F_{z\text{ norm}}$ | 68.000 N | Max. tooth force root fatigue strenght (at a shock factor of 1,2) |
| $F_{z\text{ max}}$ | 98.900 N | Max. tooth force against tooth fracture (at a shock factor of 1,35) |

Calculation factors

| | | |
|----------|-------------|-----------------------------------|
| C_a | 370.000 N | Basic dynamic load rating, axial |
| C_{0a} | 3.400.000 N | Basic static load rating, axial |
| C_r | 335.000 N | Basic dynamic load rating, radial |
| C_{0r} | 1.560.000 N | Basic static load rating, radial |



Characteristics



Radial load



Axial load in one direction



Axial load in two directions



Moments about all axes



Grease Lubrication



Sealed on both sides



Large bearing