



### Abutment dimensions

|         |          |
|---------|----------|
| da min  | 3.2283 " |
| Da max  | 4.2520 " |
| Db max  | 4.3504 " |
| r1a max | 0.0236 " |
| ra max  | 0.0394 " |
| D6      | 3.5000 " |

### Calculation factors

#### Equivalent dynamic radial load

$$P = X.F_r + Y.F_a$$

| Series                                                                |     |       | e    | Single or DT bearing arrangement |   |             |      | DB or DF arrangement |      |             |      |
|-----------------------------------------------------------------------|-----|-------|------|----------------------------------|---|-------------|------|----------------------|------|-------------|------|
|                                                                       |     |       |      | Fa / Fr ≤ e                      |   | Fa / Fr > e |      | Fa / Fr ≤ e          |      | Fa / Fr > e |      |
|                                                                       |     |       |      | X                                | Y | X           | Y    | X                    | Y    | X           | Y    |
| 70 (NTN & SNR)<br>72 (NTN & SNR)<br>78 (NTN)<br>79 (NTN)<br>719 (SNR) | 15° | 0.178 | 0.38 | 1                                | 0 | 0.44        | 1.47 | 1                    | 1.65 | 0.72        | 2.39 |
|                                                                       |     | 0.357 | 0.4  |                                  |   |             | 1.4  |                      | 1.57 |             | 2.28 |
|                                                                       |     | 0.714 | 0.43 |                                  |   |             | 1.3  |                      | 1.46 |             | 2.11 |
|                                                                       |     | 1.07  | 0.46 |                                  |   |             | 1.23 |                      | 1.38 |             | 2    |
|                                                                       |     | 1.43  | 0.47 |                                  |   |             | 1.19 |                      | 1.34 |             | 1.93 |
|                                                                       |     | 2.14  | 0.5  |                                  |   |             | 1.12 |                      | 1.26 |             | 1.82 |
|                                                                       |     | 3.57  | 0.55 |                                  |   |             | 1.02 |                      | 1.14 |             | 1.66 |
|                                                                       |     | 5.35  | 0.56 |                                  |   |             |      |                      | 1.12 |             | 1.63 |
|                                                                       |     | 7.14  | 0.56 |                                  |   |             | 1    |                      | 1.12 |             | 1.63 |
|                                                                       | 25° |       | 0.68 | 1                                | 0 | 0.41        | 0.87 | 1                    | 0.92 | 0.67        | 1.41 |
|                                                                       | 30° |       | 0.8  |                                  |   |             |      |                      |      |             | 0.78 |

#### Equivalent static radial load

$$P_o = X_o.F_r + Y_o.F_a$$

| Series                                                                |     |  | Single or DT bearing arrangement |                | DB or DF arrangement |                |
|-----------------------------------------------------------------------|-----|--|----------------------------------|----------------|----------------------|----------------|
|                                                                       |     |  | X <sub>o</sub>                   | Y <sub>o</sub> | X <sub>o</sub>       | Y <sub>o</sub> |
|                                                                       |     |  |                                  |                |                      |                |
| 70 (NTN & SNR)<br>72 (NTN & SNR)<br>78 (NTN)<br>79 (NTN)<br>719 (SNR) | 15° |  | 0.5                              | 0.46           | 1                    | 0.92           |
|                                                                       | 25° |  |                                  | 0.38           |                      | 0.76           |
|                                                                       | 30° |  |                                  | 0.33           |                      | 0.66           |

For single or DT bearing arrangement :

If  $P_o < F_r$ , then use  $P_o = F_r$