

Abutment dimensions

da min	138.50 mm
Da max	171.50 mm
Db max	174.50 mm
r1a max	1 mm
ra max	1.50 mm
D6	146.90 mm

Calculation factors

Equivalent dynamic radial load

$$P = X \cdot Fr + Y \cdot Fa$$

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) 72 (NTN & SNR) 78 (NTN) 79 (NTN) 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										
							0.39		0.76		0.78	0.63	1.24

Equivalent static radial load

$$Po = Xo \cdot Fr + Yo \cdot Fa$$

Series			Single or DT bearing arrangement		DB or DF arrangement	
			X ₀	Y ₀	X ₀	Y ₀
70 (NTN & SNR) 72 (NTN & SNR) 78 (NTN) 79 (NTN) 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 $Po < Fr$, then use $Po = Fr$