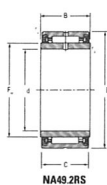
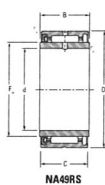




NEEDLE ROLLER BEARINGS

SEALED NEEDLE ROLLER BEARINGS WITH INNER RINGS METRIC SERIES



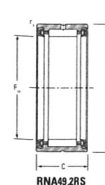
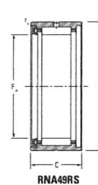
NA48RS

NA49ZRS

Bore Dia. mm in	d mm in	D mm in	B mm in	C mm in	F _w mm in	F _d mm in	Bearing Designation	Load Ratings		Fatigue Load Limit C ₁₀ kN lbf	Speed Rating Grease mm/s in/s	Approx. Wt. kg lb
								Dynmic C	Static C ₀			
10 0.3937	10 0.3937	22 0.8661	14 0.5512	13 0.5118	14 0.5512	0.3 0.012	NA48RS	7.36 1.64	8.06 1.81	1.20	1400	0.022 0.049
12 0.4724	12 0.4724	24 0.9449	14 0.5512	13 0.5118	16 0.6299	0.3 0.012	NA48ZRS	8.64 1.94	9.58 2.15	1.45	1200	0.021 0.046
12 0.4724	12 0.4724	24 0.9449	14 0.5512	13 0.5118	16 0.6299	0.3 0.012	NA48ZRS	8.64 1.94	9.58 2.15	1.45	1200	0.021 0.046
15 0.5906	15 0.5906	28 1.1224	14 0.5512	13 0.5118	20 0.7874	0.3 0.012	NA48ZRS	9.22 2.05	12.0 2.70	1.80	900	0.041 0.090
15 0.5906	15 0.5906	28 1.1224	14 0.5512	13 0.5118	20 0.7874	0.3 0.012	NA48ZRS	9.22 2.05	12.0 2.70	1.80	900	0.041 0.090
17 0.6693	17 0.6693	30 1.1811	14 0.5512	13 0.5118	22 0.8661	0.3 0.012	NA48ZRS	9.22 2.05	12.0 2.70	1.80	900	0.041 0.090
17 0.6693	17 0.6693	30 1.1811	14 0.5512	13 0.5118	22 0.8661	0.3 0.012	NA48ZRS	9.22 2.05	12.0 2.70	1.80	900	0.041 0.090
20 0.7874	20 0.7874	32 1.2598	18 0.7087	17 0.6693	25 0.9843	0.3 0.012	NA48ZRS	18.5 4.15	21.2 4.75	3.30	780	0.061 0.133
20 0.7874	20 0.7874	32 1.2598	18 0.7087	17 0.6693	25 0.9843	0.3 0.012	NA48ZRS	18.5 4.15	21.2 4.75	3.30	780	0.061 0.133
25 0.9843	25 0.9843	42 1.6535	18 0.7087	17 0.6693	30 1.1811	0.3 0.012	NA48ZRS	21.0 4.70	26.4 5.85	4.10	650	0.106 0.234
30 1.1811	30 1.1811	42 1.6535	18 0.7087	17 0.6693	30 1.1811	0.3 0.012	NA48ZRS	21.0 4.70	26.4 5.85	4.10	650	0.106 0.234
30 1.1811	30 1.1811	42 1.6535	18 0.7087	17 0.6693	30 1.1811	0.3 0.012	NA48ZRS	21.0 4.70	26.4 5.85	4.10	650	0.106 0.234
30 1.1811	30 1.1811	42 1.6535	18 0.7087	17 0.6693	30 1.1811	0.3 0.012	NA48ZRS	21.0 4.70	26.4 5.85	4.10	650	0.106 0.234
35 1.3150	35 1.3150	55 2.1654	21 0.8268	20 0.7874	42 1.6535	0.6 0.024	NA48ZRS	25.1 5.60	44.4 9.85	6.85	450	0.138 0.303
35 1.3150	35 1.3150	55 2.1654	21 0.8268	20 0.7874	42 1.6535	0.6 0.024	NA48ZRS	25.1 5.60	44.4 9.85	6.85	450	0.138 0.303
40 1.5748	40 1.5748	62 2.4409	23 0.9055	22 0.8661	48 1.8898	0.6 0.024	NA48ZRS	38.6 8.60	57.0 12.60	9.10	400	0.263 0.580
40 1.5748	40 1.5748	62 2.4409	23 0.9055	22 0.8661	48 1.8898	0.6 0.024	NA48ZRS	38.6 8.60	57.0 12.60	9.10	400	0.263 0.580
45 1.7717	45 1.7717	68 2.6772	23 0.9055	22 0.8661	52 2.0472	0.6 0.024	NA48ZRS	39.4 8.80	60.0 13.50	9.60	370	0.303 0.668
45 1.7717	45 1.7717	68 2.6772	23 0.9055	22 0.8661	52 2.0472	0.6 0.024	NA48ZRS	39.4 8.80	60.0 13.50	9.60	370	0.303 0.668
50 1.9685	50 1.9685	72 2.8346	23 0.9055	22 0.8661	58 2.2825	0.6 0.024	NA48ZRS	41.2 9.20	68.8 15.20	10.5	330	0.309 0.681
50 1.9685	50 1.9685	72 2.8346	23 0.9055	22 0.8661	58 2.2825	0.6 0.024	NA48ZRS	41.2 9.20	68.8 15.20	10.5	330	0.309 0.681

Heavy-Duty Needle Roller Bearings

SEALED NEEDLE ROLLER BEARINGS WITHOUT INNER RINGS METRIC SERIES



RNA48RS

RNA49ZRS

Bore Dia. mm in	F _w mm in	D mm in	C mm in	F _d mm in	Bearing Designation	Load Ratings		Fatigue Load Limit C ₁₀ kN lbf	Speed Rating Grease mm/s in/s	Approx. Wt. kg lb
						Dynmic C	Static C ₀			
14 0.5512	14 0.5512	22 0.8661	13 0.5118	0.3 0.012	RNA48ZRS	7.36 1.64	8.06 1.81	1.20	1400	0.022 0.049
16 0.6299	16 0.6299	24 0.9449	13 0.5118	0.3 0.012	RNA48ZRS	8.64 1.94	9.58 2.15	1.45	1200	0.021 0.046
16 0.6299	16 0.6299	24 0.9449	13 0.5118	0.3 0.012	RNA48ZRS	8.64 1.94	9.58 2.15	1.45	1200	0.021 0.046
20 0.7874	20 0.7874	28 1.1224	13 0.5118	0.3 0.012	RNA48ZRS	9.22 2.05	12.0 2.70	1.80	900	0.041 0.090
20 0.7874	20 0.7874	28 1.1224	13 0.5118	0.3 0.012	RNA48ZRS	9.22 2.05	12.0 2.70	1.80	900	0.041 0.090
22 0.8661	22 0.8661	30 1.1811	13 0.5118	0.3 0.012	RNA48ZRS	9.22 2.05	12.0 2.70	1.80	900	0.041 0.090
22 0.8661	22 0.8661	30 1.1811	13 0.5118	0.3 0.012	RNA48ZRS	9.22 2.05	12.0 2.70	1.80	900	0.041 0.090
25 0.9843	25 0.9843	32 1.2598	17 0.6693	0.3 0.012	RNA48ZRS	18.5 4.15	21.2 4.75	3.30	780	0.061 0.133
25 0.9843	25 0.9843	32 1.2598	17 0.6693	0.3 0.012	RNA48ZRS	18.5 4.15	21.2 4.75	3.30	780	0.061 0.133
30 1.1811	30 1.1811	42 1.6535	17 0.6693	0.3 0.012	RNA48ZRS	21.0 4.70	26.4 5.85	4.10	650	0.106 0.234
30 1.1811	30 1.1811	42 1.6535	17 0.6693	0.3 0.012	RNA48ZRS	21.0 4.70	26.4 5.85	4.10	650	0.106 0.234
35 1.3150	35 1.3150	55 2.1654	17 0.6693	0.3 0.012	RNA48ZRS	25.1 5.60	44.4 9.85	6.85	450	0.138 0.303
35 1.3150	35 1.3150	55 2.1654	17 0.6693	0.3 0.012	RNA48ZRS	25.1 5.60	44.4 9.85	6.85	450	0.138 0.303
40 1.5748	40 1.5748	62 2.4409	22 0.8661	0.6 0.024	RNA48ZRS	38.6 8.60	57.0 12.60	9.10	400	0.263 0.580
40 1.5748	40 1.5748	62 2.4409	22 0.8661	0.6 0.024	RNA48ZRS	38.6 8.60	57.0 12.60	9.10	400	0.263 0.580
45 1.7717	45 1.7717	68 2.6772	22 0.8661	0.6 0.024	RNA48ZRS	39.4 8.80	60.0 13.50	9.60	370	0.303 0.668
45 1.7717	45 1.7717	68 2.6772	22 0.8661	0.6 0.024	RNA48ZRS	39.4 8.80	60.0 13.50	9.60	370	0.303 0.668
50 1.9685	50 1.9685	72 2.8346	22 0.8661	0.6 0.024	RNA48ZRS	41.2 9.20	68.8 15.20	10.5	330	0.309 0.681
50 1.9685	50 1.9685	72 2.8346	22 0.8661	0.6 0.024	RNA48ZRS	41.2 9.20	68.8 15.20	10.5	330	0.309 0.681