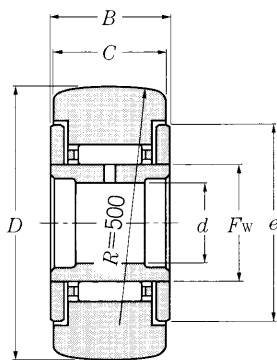
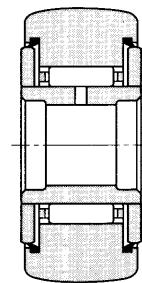


Metric series

- Type NATR
- Type NATR · · LL
- Type NATV
- Type NATV · · LL



Type NATR
(With cage)

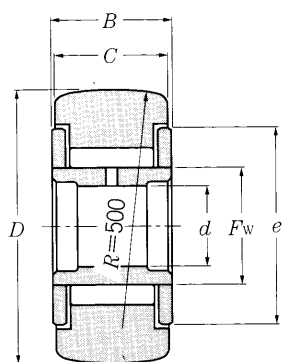


Type NATR · · LL
(Sealed type with cage)

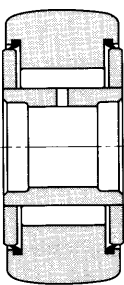
D 16~90mm

D	Boundary dimensions					Basic load ratings				Load ratings of truck				Limiting speeds	
	B	C	d	e	F _w	dynamic		static		N		kgf		rpm	
						C _r	C _{or}	C _r	C _{or}	Spherical outer ring	Cylindrical outer ring	Spherical outer ring	Cylindrical outer ring	grease	oil
16	12 ⁰ _{-0.05}	11	5	12	8	4 100	4 250	420	435	1 080	3 400	110	350	※19 000	※25 000
	12 ⁰ _{-0.180}	11	5	12	8	6 250	8 900	640	910	1 080	3 400	110	350	※13 000	※16 000
19	12 ⁰ _{-0.180}	11	6	14	10	4 500	5 100	460	520	1 380	4 050	141	415	※15 000	※20 000
	12 ⁰ _{-0.180}	11	6	14	10	7 200	11 200	735	1140	1 380	4 050	141	415	10 000	※13 000
24	15 ⁰ _{-0.180}	14	8	19	12	6 600	7 300	675	745	1 900	6 650	193	680	※12 000	※16 000
	15 ⁰ _{-0.180}	14	8	19	12	10 300	15 500	1 050	1 580	1 900	6 650	193	680	8 500	※11 000
30	15 ⁰ _{-0.180}	14	10	23	15	7 500	9 100	765	930	2 620	7 700	267	785	10 000	※13 000
	15 ⁰ _{-0.180}	14	10	23	15	11 700	19 500	1 190	1 980	2 620	7 700	267	785	6 500	8 500
32	15 ⁰ _{-0.180}	14	12	25	17	8 500	11 100	865	1 130	2 860	8 200	291	835	9 000	※12 000
	15 ⁰ _{-0.180}	14	12	25	17	12 600	22 100	1 280	2 250	2 860	8 200	291	835	6 000	7 500
35	19 ⁰ _{-0.210}	18	15	27	20	13 000	20 100	1 320	2 050	3 200	11 900	325	1 220	7 500	10 000
	19 ⁰ _{-0.210}	18	15	27	20	18 000	37 000	1 830	3 750	3 200	11 900	325	1 220	5 000	6 500
40	21 ⁰ _{-0.210}	20	17	32	22	13 600	22 100	1 390	2 250	3 850	14 500	390	1 480	7 000	9 000
	21 ⁰ _{-0.210}	20	17	32	22	18 900	40 500	1 930	4 150	3 850	14 500	390	1 480	4 500	6 000
47	25 ⁰ _{-0.210}	24	20	37	25	20 300	33 000	2 070	3 350	4 700	21 000	480	2 150	6 000	8 000
	25 ⁰ _{-0.210}	24	20	37	25	28 400	60 000	2 900	6 100	4 700	21 000	480	2 150	4 000	5 000
52	25 ⁰ _{-0.210}	24	25	42	30	22 300	39 500	2 280	4 000	5 500	23 300	565	2 370	5 000	6 500
	25 ⁰ _{-0.210}	24	25	42	30	31 000	72 000	3 150	7 350	5 500	23 300	565	2 370	3 300	4 500
62	29 ⁰ _{-0.210}	28	30	51	38	35 000	64 000	3 600	6 550	6 950	33 000	710	3 350	4 000	5 500
	29 ⁰ _{-0.210}	28	30	51	38	46 500	112 000	4 750	11 400	6 950	33 000	710	3 350	2 600	3 500
72	29 ⁰ _{-0.210}	28	35	58	44.5	38 000	74 500	3 850	7 600	8 050	37 000	820	3 750	3 300	4 500
	29 ⁰ _{-0.210}	28	35	58	44.5	51 000	130 000	5 200	13 300	8 050	37 000	820	3 750	2 200	2 900
80	32 ⁰ _{-0.250}	30	40	66	50	48 500	90 000	4 950	9 150	9 800	44 500	1 000	4 500	3 000	4 000
	32 ⁰ _{-0.250}	30	40	66	50	67 500	167 000	6 850	17 100	9 800	44 500	1 000	4 500	2 000	2 600
85	32 ⁰ _{-0.250}	30	45	71	55	50 500	97 500	5 150	9 950	10 400	47 000	1 060	4 800	2 700	3 600
90	32 ⁰ _{-0.250}	30	50	76	60	52 000	105 000	5 300	10 700	11 400	50 000	1 160	5 100	2 500	3 300
	32 ⁰ _{-0.250}	30	50	76	60	74 500	200 000	7 600	20 400	11 400	50 000	1 160	5 100	1 600	2 100

NOTE : 1) The suffix for bearings with cylindrical outer rings is X. The tolerances of the outer ring are manufactured to conform with JIS Class 0. Example : NATR5X
Reference : Limiting speed of sealed type bearings marked with ※ is approximately 10 000 rpm.



Type NATV
(Full complement type)



Type NATV·LL
(Full complement type with seals)

Bearing numbers ¹⁾		Mass
Type NATR	Type NATR·LL	kg
Type NATV	Type NATV·LL	(approx.)
NATR5	NATR5LL	0.018
NATV5	NATV5LL	0.020
NATR6	NATR6LL	0.025
NATV6	NATV6LL	0.027
NATR8	NATR8LL	0.042
NATV8	NATV8LL	0.044
NATR10	NATR10LL	0.061
NATV10	NATV10LL	0.065
NATR12	NATR12LL	0.069
NATV12	NATV12LL	0.074
NATR15	NATR15LL	0.098
NATV15	NATV15LL	0.102
NATR17	NATR17LL	0.140
NATV17	NATV17LL	0.145
NATR20	NATR20LL	0.246
NATV20	NATV20LL	0.254
NATR25	NATR25LL	0.275
NATV25	NATV25LL	0.285
NATR30	NATR30LL	0.470
NATV30	NATV30LL	0.481
NATR35	NATR35LL	0.635
NATV35	NATV35LL	0.647
NATR40	NATR40LL	0.875
NATV40	NATV40LL	0.890
NATR45	NATR45LL	0.910
NATR50	NATR50LL	0.960
NATV50	NATV50LL	0.990