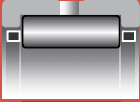


MACHINED RING
NEEDLE ROLLER
BEARINGS
STAINLESS STEEL
WITHOUT INNER RING

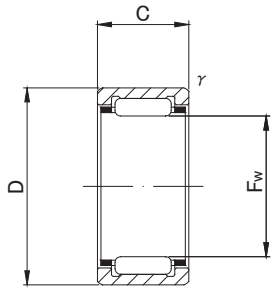


SUS/INOX

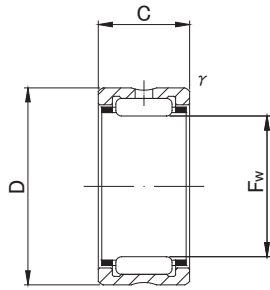


RNA49..M , NK..M

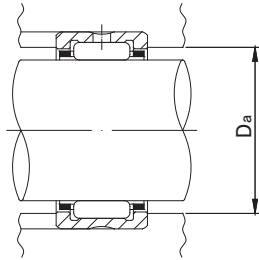
STAINLESS STEEL



NK..M(Fw ≤ 10)



RNA49..M,NK..M

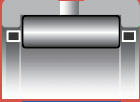


RNA49..M NK..M TYPE

Shaft Diameter (mm) 	Designation 		Dimensions (mm)   				Standard mounting dimensions (mm) 	Basic dynamic load rating 	Basic static load rating 	Limiting speed * 	Mass 	Usable bearing designation  	
	RNA49..M	NK..M	Fw	D	C	ℓ's min	Da MAX	Cr N	Cor N	rpm	g (approx)	INNER RING	WITH INNER RING
5	—	NK5/10M NK5/12M	5 +0.018	10	10	0.15	6.5	2 200	1 700	40 000	3.4	—	—
	—		5 +0.010	10	12	0.15	6.5	2 800	2 400	40 000	4.2	—	—
6	—	NK6/10M NK6/12M	6 +0.018	12	10	0.15	7.5	2 400	2 100	37 000	5.3	—	—
	—		6 +0.010	12	12	0.15	7.5	3 100	2 900	37 000	6.4	—	—
7	RNA495M	— NK7/10M NK7/12M	7	13	10	0.15	8.5	2 700	2 400	34 000	5.9	—	—
	—		7 +0.022	14	10	0.3	8.5	3 300	2 700	34 000	6.9	—	—
	—		7 +0.013	14	10	0.3	8.5	4 200	3 700	34 000	8.3	—	—
	—		7	14	12	0.3	8.5	4 200	3 700	34 000	8.3	—	—
8	RNA496M	— NK8/12M NK8/16M	8	15	10	0.15	13.8	3 500	3 100	32 000	7.3	IR6810M	NA496M
	—		8 +0.022	15	12	0.3	13	4 600	4 300	32 000	9	IR5812M	NKI 5/12M
	—		8 +0.013	15	16	0.3	13	6 500	6 700	32 000	13	IR5816M	NKI 5/16M
	—		8	15	16	0.3	13	6 500	6 700	32 000	13	IR5816M	NKI 5/16M
9	—	NK9/12M NK9/16M —	9	16	12	0.3	14	5 000	4 800	30 000	10	IR6912M	NKI 6/12M
	—		9 +0.022	16	16	0.3	14	6 900	7 500	30 000	13.2	IR6916M	NKI 6/16M
	—		9 +0.013	16	16	0.3	14	6 900	7 500	30 000	13.2	IR6916M	NKI 6/16M
	RNA497M		9	17	10	0.15	15.8	4 100	3 300	30 000	9.3	IR7910M	NA497M
10	—	NK10/12M NK10/16M —	10	17	12	0.3	15	5 400	5 500	28 000	10.7	IR71012M	NKI 7/12M
	—		10 +0.022	17	16	0.3	15	7 500	8 400	28 000	14.3	IR71016M	NKI 7/16M
	—		10 +0.013	17	16	0.3	15	7 500	8 400	28 000	14.3	IR71016M	NKI 7/16M
	RNA498M		10	19	11	0.2	17.4	5 700	4 600	28 000	12.6	IR81011M	NA498M
12	—	NK12/12M NK12/16M —	12	19	12	0.3	17	6 000	6 700	26 000	12.2	IR91212M	NKI 9/12M
	—		12 +0.027	19	16	0.3	17	8 400	10 300	26 000	16.3	IR91216M	NKI 9/16M
	—		12 +0.016	19	16	0.3	17	8 400	10 300	26 000	16.3	IR91216M	NKI 9/16M
	RNA499M		12	20	11	0.3	18	6 000	5 700	26 000	13.6	IR91211M	NA499M
14	RNA4900M	— NK14/16M NK14/20M	14	22	13	0.3	20	8 400	9 200	24 000	16.5	IR101413M	NA4900M
	—		14 +0.027	22	16	0.3	20	10 800	12 600	24 000	21	IR101416M	NKI 10/16M
	—		14 +0.016	22	16	0.3	20	10 800	12 600	24 000	21	IR101416M	NKI 10/16M
	—		14	22	20	0.3	20	13 600	17 000	24 000	26.5	IR101420M	NKI 10/20M
15	—	NK15/16M NK15/20M	15	23	16	0.3	21	11 400	13 700	23 000	22.5	—	—
	—		15 +0.016	23	20	0.3	21	14 300	18 500	23 000	28	—	—

* Suitable for oil lubrication. In case of grease lubrication, down to 60% of this value.

MACHINED RING
NEEDLE ROLLER
BEARINGS
STAINLESS STEEL
WITHOUT INNER RING

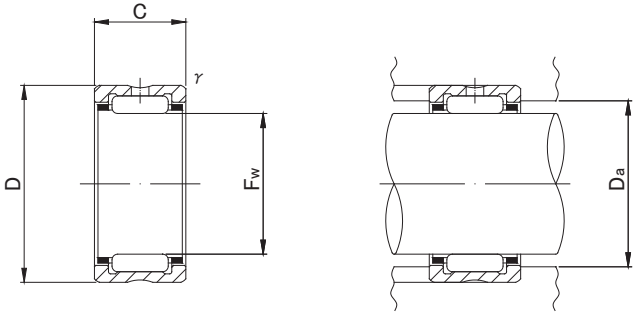


SUS/INOX

STAINLESS STEEL



RNA49..M , NK..M



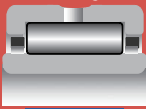
RNA49..M,NK..M

RNA49..M NK..M TYPE

Shaft Diameter (mm) 	Designation 		Dimensions (mm)   				Standard mounting dimensions (mm) 	Basic dynamic load rating 	Basic static load rating 	Limiting speed * 	Mass 	Usable bearing designation  	
	RNA49..M	NK..M	Fw	D	C	ℓ's min	Da MAX	Cr N	Cor N	rpm	g (approx)	INNER RING	WITH INNER RING
16	RNA4901M	—	16	24	13	0.3	22	8 900	10 200	23 000	18.1	IR121613M	NA4901M
	—	NK16/16M	16 +0.027	24	16	0.3	22	11 300	13 800	23 000	23	IR121616M	NKI 12/16M
	—	NK16/20M	16 +0.016	24	20	0.3	22	14 300	18 700	23 000	29	IR121620M	NKI 12/20M
17	—	NK17/16M	17 +0.027	25	16	0.3	23	11 700	14 900	22 000	24.5	—	—
	—	NK17/20M	17 +0.016	25	20	0.3	23	14 900	20 300	22 000	30.5	—	—
18	—	NK18/16M	18 +0.027	26	16	0.3	24	12 300	16 100	21 000	25.5	—	—
	—	NK18/20M	18 +0.016	26	20	0.3	24	15 600	21 700	21 000	32	—	—
19	—	NK19/16M	19 +0.033	27	16	0.3	25	12 800	17 200	21 000	27	IR151916M	NKI 15/16M
	—	NK19/20M	19 +0.020	27	20	0.3	25	16 200	23 200	21 000	34	IR151920M	NKI 15/20M
20	RNA4902M	—	20 +0.033 +0.020	28	13	0.3	26	10 000	12 600	20 000	21.5	IR152013M	NA4902M
22	RNA4903M	—	22 +0.033 +0.020	30	13	0.3	28	10 800	14 300	18 000	23.5	IR172213M	NA4903M
25	RNA4904M	—	25 +0.033 +0.020	37	17	0.3	35	19 300	23 000	16 000	55.5	IR202517M	NA4904M
30	RNA4905M	—	30 +0.033 +0.020	42	17	0.3	40	21 800	28 200	13 000	64	IR253017M	NA4905M

* Suitable for oil lubrication. In case of grease lubrication, down to 60% of this value.

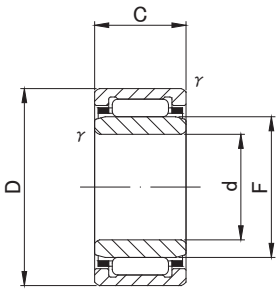
MACHINED RING
NEEDLE ROLLER
BEARINGS
STAINLESS STEEL
WITH INNER RING



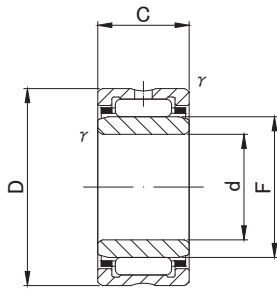
SUS/INOX



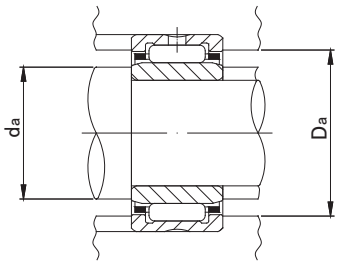
NA49..M ,NKI..M



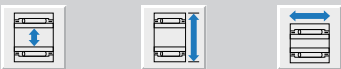
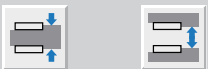
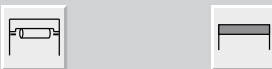
NKI..M(d ≤ 8)



NA49..M,NKI..M



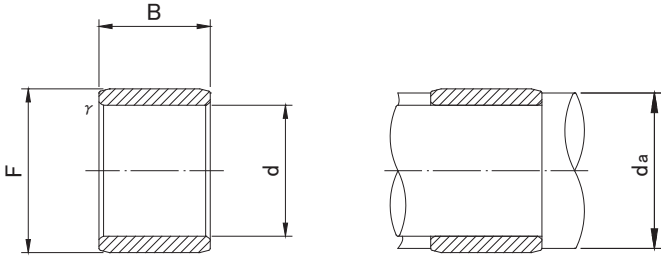
■ NA49..M ,NKI..M TYPE

Shaft Diameter (mm) 	Designation 		Dimensions (mm) 					Standard mounting dimensions (mm) 			Basic dynamic load rating 	Basic static load rating 	Limiting speed * 	Mass 	Usable bearing designation 	
	NA49..M	NKI..M	d	D	C	f's min	F	da		Da MAX	Cr N	Cor N	rpm	g (approx)	OUTER RING	INNER RING
								MIN	MAX							
5	NA495M	—	5	13	10	0.15	7	6.2	6.7	11.8	2 700	2 400	34 000	7.3	RNA495M	IR5710M
	—	NKI 5/12M	5 ⁰ _{-0.008}	15	12	0.3	8	7	7.7	13	4 600	4 300	32 000	11.9	NK8/12M	IR5812M
	—	NKI 5/16M	5	15	16	0.3	8	7	7.7	13	6 500	6 700	32 000	16.7	NK8/16M	IR5816M
6	NA496M	—	6	15	10	0.15	8	7.2	7.7	13.8	3 500	3 100	32 000	9.1	RNA496M	IR6810M
	—	NKI 6/12M	6 ⁰ _{-0.008}	16	12	0.3	9	8	8.7	14	5 000	4 800	30 000	13	NK9/12M	IR6912M
	—	NKI 6/16M	6	16	16	0.3	9	8	8.7	14	6 900	7 500	30 000	17.5	NK9/16M	IR6916M
7	NA497M	—	7	17	10	0.15	9	8.2	8.7	15.8	4 100	3 300	30 000	11.2	RNA497M	IR7910M
	—	NKI 7/12M	7 ⁰ _{-0.008}	17	12	0.3	10	9	9.7	15	5 400	5 500	28 000	14.3	NK10/12M	IR71012M
	—	NKI 7/16M	7	17	16	0.3	10	9	9.7	15	7 500	8 400	28 000	19.2	NK10/16M	IR71016M
8	NA498M	—	8 ⁰ _{-0.008}	19	11	0.2	10	9.2	9.7	17.4	5 700	4 600	28 000	15	RNA498M	IR81011M
9	—	NKI 9/12M	9	19	12	0.3	12	11	11.5	17	6 000	6 700	26 000	16.7	NK12/12M	IR91212M
	—	NKI 9/16M	9 ⁰ _{-0.008}	19	16	0.3	12	11	11.5	17	8 400	10 300	26 000	22.5	NK12/16M	IR91216M
	NA499M	—	9	20	11	0.3	12	11	11.5	18	6 000	5 700	26 000	16.7	RNA499M	IR91211M
10	NA4900M	—	10	22	13	0.3	14	12	13	20	8 400	9 200	24 000	24	RNA4900M	IR101413M
	—	NKI 10/16M	10 ⁰ _{-0.008}	22	16	0.3	14	12	13	20	10 800	12 600	24 000	30	NK14/16M	IR101416M
	—	NKI 10/20M	10	22	20	0.3	14	12	13	20	13 600	17 000	24 000	38	NK14/20M	IR101420M
12	NA4901M	—	12	24	13	0.3	16	14	15	22	8 900	10 200	23 000	26.5	RNA4901M	IR121613M
	—	NKI 12/16M	12 ⁰ _{-0.008}	24	16	0.3	16	14	15	22	11 300	13 800	23 000	33.5	NK16/16M	IR121616M
	—	NKI 12/20M	12	24	20	0.3	16	14	15	22	14 300	18 700	23 000	42.5	NK16/20M	IR121620M
15	—	NKI 15/16M	15	27	16	0.3	19	17	18	25	12 800	17 200	21 000	39.5	NK19/16M	IR151916M
	—	NKI 15/20M	15 ⁰ _{-0.008}	27	20	0.3	19	17	18	25	16 200	23 200	21 000	50	NK19/20M	IR151920M
	NA4902M	—	15	28	13	0.3	20	17	19	26	10 000	12 600	20 000	35	RNA4902M	IR152013M
17	NA4903M	—	17 ⁰ _{-0.008}	30	13	0.3	22	19	21	28	10 800	14 300	18 000	39	RNA4903M	IR172213M
20	NA4904M	—	20 ⁰ _{-0.010}	37	17	0.3	25	22	24	35	19 300	23 000	16 000	78.5	RNA4904M	IR202517M
25	NA4905M	—	25 ⁰ _{-0.010}	42	17	0.3	30	27	29	40	21 800	28 200	13 000	92.5	RNA4905M	IR253017M

* Suitable for oil lubrication. In case of grease lubrication, down to 60% of this value.



IR..M



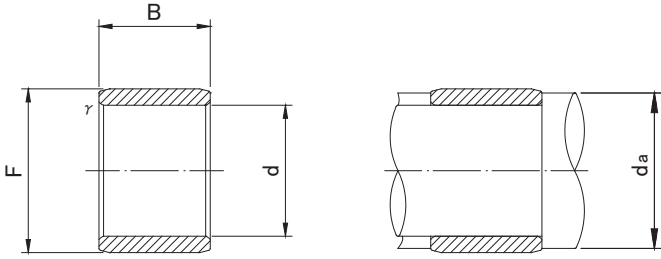
IR..M

IR..M TYPE

Shaft Diameter (mm)	Designation	Dimensions (mm)				Standard mounting dimensions (mm)		Mass	Usable bearing designation	
					<i>f</i> 's min					
	IR..M	d	F	B		da		g (approx)		
						MIN	MAX			
5	IR 5710M	5	7	10	0.15	6.2	6.7	1.4	RNA495M	—
	IR 5812M	5 ⁰ _{-0.008}	8	12	0.3	7	7.7	3	—	NK8/12M
	IR 5816M	5	8	16	0.3	7	7.7	4	—	NK8/16M
6	IR 6810M	6	8	10	0.15	7.2	7.7	1.7	RNA496M	—
	IR 6912M	6 ⁰ _{-0.008}	9	12	0.3	8	8.7	3.2	—	NK9/12M
	IR 6916M	6	9	16	0.3	8	8.7	4.3	—	NK9/16M
	IR 61010M	6	10	10	0.3	8	9.7	4	—	—
7	IR 7910M	7	9	10	0.15	8.2	8.7	1.9	RNA497M	—
	IR 71012M	7 ⁰ _{-0.008}	10	12	0.3	9	9.7	3.6	—	NK10/12M
	IR 71016M	7	10	16	0.3	9	9.7	5	—	NK10/16M
8	IR 81011M	8	10	11	0.15	9.2	9.7	2.4	RNA498M	—
	IR 81210M	8 ⁰ _{-0.008}	12	10	0.3	10	11	4.8	—	—
9	IR 91211M	9	12	11	0.3	11	11.5	3.1	RNA499M	—
	IR 91212M	9 ⁰ _{-0.008}	12	12	0.3	11	11.5	4.5	—	NK12/12M
	IR 91216M	9	12	16	0.3	11	11.5	6	—	NK12/16M
10	IR 101412M	10	14	12	0.3	12	13	7	—	—
	IR 101413M	10 ⁰ _{-0.008}	14	13	0.3	12	13	7.5	RNA4900M	—
	IR 101416M	10	14	16	0.3	12	13	9	—	NK14/16M
	IR 101420M	10	14	20	0.3	12	13	11.5	—	NK14/20M
12	IR 121612M	12	16	12	0.3	14	15	8	—	—
	IR 121613M	12 ⁰ _{-0.008}	16	13	0.3	14	15	8.5	RNA4901M	—
	IR 121616M	12	16	16	0.3	14	15	10.5	—	NK16/16M
	IR 121620M	12	16	20	0.3	14	15	13.5	—	NK16/20M
15	IR 151916M	15	19	16	0.3	17	18	12.5	—	NK19/16M
	IR 151920M	15 ⁰ _{-0.008}	19	20	0.3	17	18	16	—	NK19/20M
	IR 152012M	15	20	12	0.3	17	19	12	—	—
	IR 152013M	15	20	13	0.3	17	19	13.5	RNA4902M	—
17	IR 172213M	17	22	13	0.3	19	21	15.5	RNA4903M	—
	IR 172216M	17 ⁰ _{-0.008}	22	16	0.3	19	21	19	—	—



IR..M



IR..M

IR..M TYPE

Shaft Diameter (mm) 	Designation	Dimensions (mm)				Standard mounting dimensions (mm)		Mass	Usable bearing designation	
					f_s min					
	IR..M	d	F	B		MIN	MAX			
20	IR 202516M IR 202517M	20 ₀ 20 _{-0.010}	25 25	16 17	0.3 0.3	22 22	24 24	22 23	— RNA4904M	— —
25	IR 253016M IR253017M	25 ₀ 25 _{-0.010}	30 30	16 17	0.3 0.3	27 27	29 29	28 28.5	— RNA4905M	— —
30	IR 303820M	30 ₀ 30 _{-0.010}	38	20	0.6	34	37	65	—	—
35	IR 354220M	35 ₀ 35 _{-0.012}	42	20	0.6	39	41	65	—	—
50	IR 506020M	50 ₀ 50 _{-0.012}	60	20	1	55	59	135	—	—