



Cam Followers:

Cam Follower are designed for rotation of the outer ring in which a needle roller and cage assembly and a stud in lieu of inner ring are fitted in the thick-walled outer ring. The stud is so threaded as to be mounted easily.

Roller & Cam follower (Bearing) uses needle rollers as its rolling element and it is further classified into one bearing type with cage and another full complement roller bearing type without cage. The bearing type with cage is suitable to comparatively high speed running because its rollers are guided by the cage. The full complement roller type enabling to use more needle rollers than the type with cage has large load capacity.

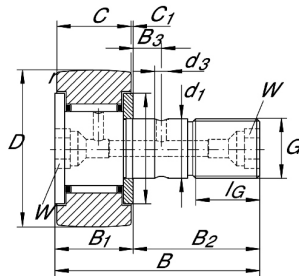
The outer surface is available in both spherical (Crowning) profile and cylindrical profile. The stud is of either recessed head type allowing use of a screwdriver or hexagon socket head type so as to be mounted and adjusted easily.

Suffix and Corresponding Description for Cam Followers	
Suffix	Description of Suffix
X	Cylindrical Outer Diameter
H	Hexagon Socket
SK	Hexagonal Socket Only On The Flange-Side End Face, No Relubrication Facility
PP	Plastic Axial Plain Washer With Formed Seal Lip On Both Sides Of The Yoke Type Track Roller, Giving a Three-Stage Seal.
2RS	Double Single Side Synthetic Rubber Seal
C2	Radial Internal Clearance C2 (Clearance less than CN)
CN	Radial Internal Clearance CN (Clearance Lager than C2)
C3	Radial Internal Clearance C3 (Clearance Lager than Normal)
C4	Radial Internal Clearance C4 (Clearance Larger than C3)

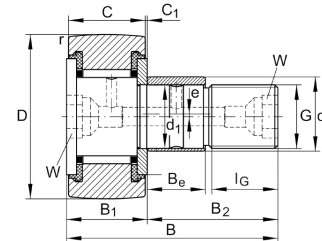
Cam Followers : Stud Type Needle Roller Bearing Track Rollers



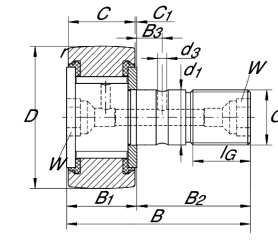
Cam Followers : Stud Type Needle Roller Bearing Track Rollers



KR Type



KRE Type



KRV Type

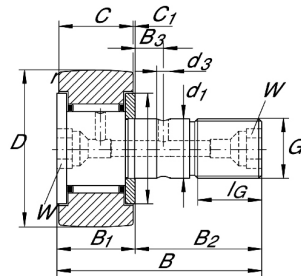
Boundary Dimensions														
(mm)														
D	d ₁	B	B ₁ (max)	B ₂	B ₃	C	C ₁	r (min)	d ₃	G	l _G	W	Eccentric Collar	
													d _e	B _e e
16	6	28	12.2	16	-	11	0.6	0.15	-	M6X1	8	-	-	-
16	6	28	12.2	16	-	11	0.6	0.15	-	M6X1	8	-	9	7 0.5
16	6	28	12.2	16	-	11	0.6	0.15	-	M6X1	8	4	-	-
16	6	28	12.2	16	-	11	0.6	0.15	-	M6X1	8	-	-	-
19	8	32	12.2	20	-	11	0.6	0.15	-	M8X1.25	10	-	-	-
19	8	32	12.2	20	-	11	0.6	0.15	-	M8X1.25	10	11	9	0.5
19	8	32	12.2	20	-	11	0.6	0.15	-	M8X1.25	10	4	-	-
19	8	32	12.2	20	-	11	0.6	0.15	-	M8X1.25	10	-	-	-
22	10	36	13.2	23	-	12	0.6	0.3	-	M10X1	12	5	-	-
22	10	36	13.2	23	-	12	0.6	0.3	-	M10X1	12	5	13	10 0.5
22	10	36	13.2	23	-	12	0.6	0.3	-	M10X1	12	5	-	-
22	10	36	13.2	23	-	12	0.6	0.3	-	M10X1.25	12	5	-	-
22	10	36	13.2	23	-	12	0.6	0.3	-	M10X1.25	12	5	13	10 0.5
22	10	36	13.2	23	-	12	0.6	0.3	-	M10X1.25	12	5	-	-
26	10	36	13.2	23	-	12	0.6	0.3	-	M10X1	12	5	-	-
26	10	36	13.2	23	-	12	0.6	0.3	-	M10X1	12	5	13	10 0.5
26	10	36	13.2	23	-	12	0.6	0.3	-	M10X1	12	5	-	-
26	10	36	13.2	23	-	12	0.6	0.3	-	M10X1.25	12	5	-	-
26	10	36	13.2	23	-	12	0.6	0.3	-	M10X1.25	12	5	13	10 0.5
26	10	36	13.2	23	-	12	0.6	0.3	-	M10X1.25	12	5	-	-
30	12	40	15.2	25	6	14	0.6	0.6	3	M12x1.5	13	6	-	-
30	12	40	15.2	25	6	14	0.6	0.6	3	M12x1.5	13	6	15	11 0.5
30	12	40	15.2	25	6	14	0.6	0.6	3	M12x1.5	13	6	-	-
32	12	40	15.2	25	6	14	0.6	0.6	3	M12 X1.5	13	6	-	-
32	12	40	15.2	25	6	14	0.6	0.6	3	M12x1.5	13	6	15	11 0.5
32	12	40	15.2	25	6	14	0.6	0.6	3	M12x1.5	13	6	-	-
35	16	52	19.6	32.5	8	18	0.8	0.6	3	M16x1.5	17	8	-	-
35	16	52	19.6	32.5	8	18	0.8	0.6	3	M16x1.5	17	8	20	14 1
35	16	52	19.6	32.5	8	18	0.8	0.6	3	M16x1.5	17	8	-	-
40	18	58	21.6	36.5	8	20	0.8	1	3	M18X1.5	19	8	-	-

Basic Load Rating		Limiting Speed	Bearing Designation	Mass Approx	With Eccentric Collar Bearing Designation	Mass Approx	Drive Fit Lubrication Nipple	Nut Tightening Torque	
(KN)								(rpm)	M _A
									Nm
3.15	3.35	14000	KR16	19	-	-	NIPA1	3	
3.15	3.35	14000	KR16-PP	18	KRE16-PP	20	NIPA1	3	
3.15	3.35	14000	KR16-SK-PP	19	-	-	-	3	
4.90	6.60	3800	KRV16-PP	19	-	-	NIPA1	3	
3.50	4.00	11000	KR19	29	-	-	NIPA1	8	
3.50	4.00	11000	KR19-PP	29	KRE19-PP	32	NIPA1	8	
3.50	4.00	11000	KR19-SK-PP	29	-	-	-	8	
5.40	8.00	3100	KRV19-PP	31	-	-	NIPA1	8	
4.55	5.30	8000	KR22	45	-	-	NIPA1X4.5	15	
4.55	5.30	8000	KR22-PP	43	KRE22-PP	47	NIPA1X4.5	15	
6.20	9.20	2600	KRV22-PP	45	-	-	NIPA1X4.5	15	
4.55	5.30	8000	KR22-1	45	-	-	NIPA1X4.5	15	
4.55	5.30	8000	KR22-1-PP	43	KRE22-1-PP	47	NIPA1X4.5	15	
6.20	9.20	2600	KRV22-1-PP	45	-	-	NIPA1X4.5	15	
5.10	6.40	8000	KR26	59	-	-	NIPA1X4.5	15	
5.10	6.40	8000	KR26-PP	57	KRE26-PP	62	NIPA1X4.5	15	
7.30	11.50	2600	KRV26-PP	59	-	-	NIPA1 x4.5	15	
5.10	6.40	8000	KR26-1	59	-	-	NIPA1X4.5	15	
5.10	6.40	8000	KR26-1-PP	57	KRE26-1-PP	62	NIPA1X4.5	15	
7.30	11.50	2600	KRV26-1-PP	59	-	-	NIPA1 x4.5	15	
6.80	8.60	5500	KR30	92	-	-	NIPA1 X4.5	22	
6.80	8.60	5500	KR30-PP	88	KRE30-PP	93	NIPA1 X4.5	22	
9.50	14.90	2100	KRV30-PP	91	-	-	NIPA1 x4.5	22	
7.10	9.20	5500	KR32	103	-	-	NIPA1X4.5	22	
7.10	9.20	5500	KR32-PP	98	KRE32-PP	104	NIPA1X4.5	22	
10.00	16.10	2100	KRV32-PP	101	-	-	NIPA1X4.5	22	
9.70	14.30	3600	KR35	173	-	-	NIPA2x7.5	58	
9.70	14.30	3600	KR35-PP	164	KRE35-PP	177	NIPA2x7.5	58	
12.60	23.10	1600	KRV35-PP	166	-	-	NIPA2X7.5	58	
10.90	15.80	2900	KR40	247	-	-	NIPA2X7.5	87	

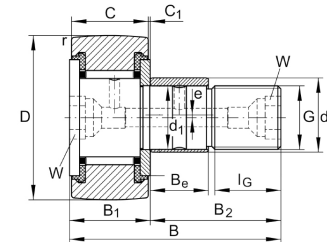
Cam Followers : Stud Type Needle Roller Bearing Track Rollers



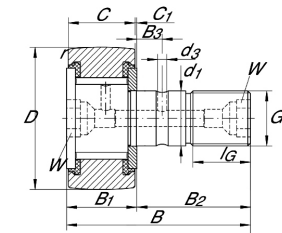
Cam Followers : Stud Type Needle Roller Bearing Track Rollers



KR Type



KRE Type



KRV Type

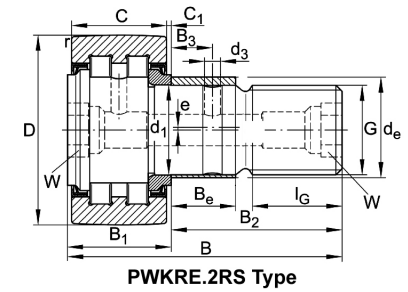
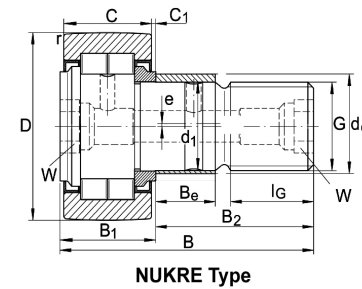
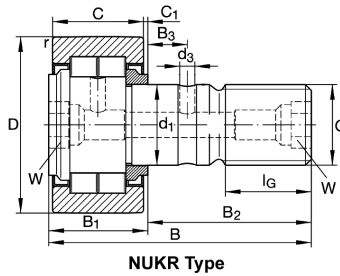
Boundary Dimensions													
(mm)													
D	d ₁	B	B ₁ (max)	B ₂	B ₃	C	C ₁	r (min)	d ₃	G	l _G	W	Eccentric Collar
													d _e B _e e
40	18	58	21.6	36.5	8	20	0.8	1	3	M18X1.5	19	8	22 16 1
40	18	58	21.6	36.5	8	20	0.8	1	3	M18X1.5	19	8	- - -
47	20	66	25.6	40.5	9	24	0.8	1	4	M20x1.5	21	10	24 18 1
47	20	66	25.6	40.5	9	24	0.8	1	4	M20X1.5	21	10	- - -
52	20	66	25.6	40.5	9	24	0.8	1	4	M20X1.5	21	10	24 18 1
52	20	66	25.6	40.5	9	24	0.8	1	4	M20X1.5	21	10	- - -
62	24	80	30.6	49.5	11	29	0.8	1	4	M24X1.5	25	14	28 22 1
62	24	80	30.6	49.5	11	29	0.8	1	4	M24x1.5	25	14	- - -
72	24	80	30.6	49.5	11	29	0.8	1.1	4	M24X1.5	25	14	28 22 1
72	24	80	30.6	49.5	11	29	0.8	1.1	4	M24x1.5	25	14	- - -
80	30	100	37	63	15	35	1	1.1	4	M30X1.5	32	14	35 29 1.5
80	30	100	37	63	15	35	1	1.1	4	M30x1.5	32	14	- - -
90	30	100	37	63	15	35	1	1.1	4	M30x1.5	32	14	35 29 1.5
90	30	100	37	63	15	35	1	1.1	4	M30x1.5	32	14	- - -

Basic Load Rating		Limiting Speed	Bearing Designation	Mass Approx	With Eccentric Collar Bearing Designation	Mass Approx	Drive Fit Lubrication Nipple	Nut Tightening Torque
(KN)		(rpm)		(g)		(g)		
Cr	Cor				M _A	Nm		
10.90	15.80	2900	KR40-PP	239	KRE40-PP	255	NIPA2X7.5	87
14.70	26.50	1400	KRV40-PP	247	-	-	NIPA2X7.5	87
15.40	26.00	2400	KR47-PP	381	KRE47-PP	400	NIPA2x7.5	120
20.30	42.00	1300	KRV47-PP	390	-	-	NIPA2X7.5	120
16.60	29.00	2400	KR52-PP	454	KRE52-PP	473	NIPA2X7.5	120
22.30	48.00	1300	KRV52-PP	463	-	-	NIPA2X7.5	120
26.00	48.00	1900	KR62-PP	770	KRE62-PP	789	NIPA3X9.5	220
33.50	75.00	1100	KRV62-PP	787	-	-	NIPA3X9.5	220
28.00	53.00	1900	KR72-PP	1010	KRE72-PP	1038	NIPA3x9.5	220
36.50	85.00	1100	KRV72-PP	1027	-	-	NIPA3x9.5	220
38.50	77.00	1300	KR80-PP	1608	KRE80-PP	1665	NIPA3X9.5	450
48.50	117.00	850	KRV80-PP	1636	-	-	NIPA3X9.5	450
40.50	83.00	1300	KR90-PP	1975	KRE90-PP	2032	NIPA3x9.5	450
52.00	129.00	850	KRV90-PP	2003	-	-	NIPA3x9.5	450

Cam Followers : Stud Type Cylindrical Roller Bearing Track Rollers



Cam Followers : Stud Type Cylindrical Roller Bearing Track Rollers



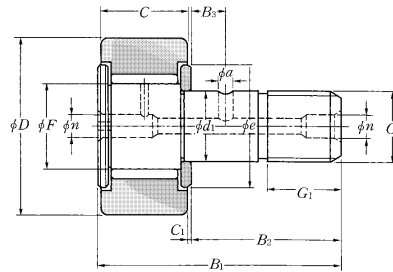
Boundary Dimensions													
(mm)													
D	d ₁	B	B ₁ (max)	B ₂	B ₃	C	C ₁	r (min)	d ₃	G	l _G	W	Eccentric Collar
													d _e B _e e
35	16	52	19.6	32.5	7.8	18	0.8	0.6	3	M16X1.5	17	8	- - -
35	16	52	22.6	29.5	-	18	3.8	0.6	-	M16X1.5	17	8	20 12 1
35	16	52	19.6	32.5	7.8	18	0.8	0.6	3	M16X1.5	17	8	- - -
35	16	52	22.6	29.5	-	18	3.8	0.6	-	M16X1.5	17	8	20 12 1
40	18	58	21.6	36.5	8	20	0.8	1	3	M18X1.5	19	8	- - -
40	18	58	24.6	33.5	-	20	3.8	1	-	M18X1.5	19	8	22 14 1
40	18	58	21.6	36.5	8	20	0.8	1	3	M18X1.5	19	8	- - -
40	18	58	24.6	33.5	-	20	3.8	1	-	M18X1.5	19	8	22 14 1
47	20	66	25.6	40.5	9	24	0.8	1	4	M20X1.5	21	10	24 18 1
47	20	66	25.6	40.5	9	24	0.8	1	4	M20X1.5	21	10	24 18 1
52	20	66	25.6	40.5	9	24	0.8	1	4	M20X1.5	21	10	24 18 1
52	20	66	25.6	40.5	9	24	0.8	1	4	M20X1.5	21	10	24 18 1
62	24	80	30.6	49.5	11	28	1.3	1	4	M24X1.5	25	14	28 22 1
62	24	80	30.6	49.5	11	28	1.3	1	4	M24X1.5	25	14	28 22 1
72	24	80	30.6	49.5	11	28	1.3	1.1	4	M24X1.5	25	14	28 22 1
72	24	80	30.6	49.5	11	28	1.3	1.1	4	M24X1.5	25	14	28 22 1
80	30	100	37	63	15	35	1	1.1	4	M30X1.5	32	14	35 29 1.5
80	30	100	37	63	15	35	1	1.1	4	M30X1.5	32	14	35 29 1.5
90	30	100	37	63	15	35	1	1.1	4	M30X1.5	32	14	35 29 1.5
90	30	100	37	63	15	35	1	1.1	4	M30X1.5	32	14	35 29 1.5

Basic Load Rating		Limiting Speed	Without Eccentric Collar Bearing Designation	Mass Approx	With Eccentric Collar Bearing Designation	Mass Approx	Drive Fit Lubrication Nipple	Nut Tightening Torque
								M _A Nm
(KN)		(rpm)		(g)		(g)		
Cr	Cor							
15.30	18.70	6500	NUKR35	164	-	-	NIPA2X7.5	58
15.30	18.70	6500	-	-	NUKRE35	177	NIPA2X7.5	58
12.60	14.60	6000	PWKR35.2RS	164	-	-	NIPA2X7.5	58
12.60	14.60	6000	-	-	PWKRE35.2RS	177	NIPA2X7.5	58
18.70	24.90	5500	NUKR40	242	-	-	NIPA2X7.5	87
18.70	24.90	5500	-	-	NUKRE40	258	NIPA2X7.5	87
14.30	17.90	5000	PWKR40.2RS	242	-	-	NIPA2X7.5	87
14.30	17.90	5000	-	-	PWKRE40.2RS	258	NIPA2X7.5	87
28.50	37.50	4200	NUKR47	380	NUKRE47	400	NIPA2X7.5	120
24.50	30.50	3800	PWKR47.2RS	380	PWKRE47.2RS	400	NIPA2X7.5	120
29.00	40.50	4200	NUKR52	450	NUKRE52	470	NIPA2X7.5	120
25.00	33.00	3800	PWKRE52.2RS	450	PWKRE52.2RS	470	NIPA2X7.5	120
40.00	55.00	2600	NUKR62	795	NUKRE62	824	NIPA3X9.5	220
35.00	45.50	2200	PWKRE62.2RS	795	PWKRE62.2RS	824	NIPA3X9.5	220
45.00	65.00	2600	NUKR72	1020	NUKRE72	1050	NIPA3X9.5	220
38.50	54.00	2200	PWKR72.2RS	1020	PWKRE72.2RS	1050	NIPA3X9.5	220
69.00	104.00	1800	NUKR80	1600	NUKRE80	1670	NIPA3X9.5	450
56.00	79.00	1800	PWKR80.2RS	1600	PWKRE80.2RS	1670	NIPA3X9.5	450
78.00	123.00	1800	NUKR90	1960	NUKRE90	2020	NIPA3X9.5	450
62.00	92.00	1800	PWKR90.2RS	1960	PWKRE90.2RS	2020	NIPA3X9.5	450

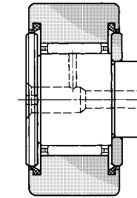
Cam Followers : Stud Type Track Rollers (Inch Series)



Cam Followers : Stud Type Track Rollers (Inch Series)



Type CR
(with cage)



Type CRPP
(with Cage, Sealed Type)

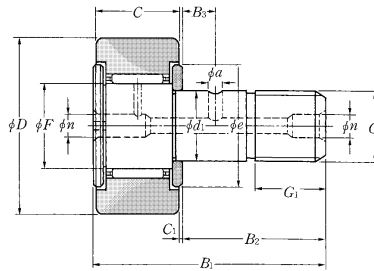
Boundary Dimensions													
mm (1/25.4 mm)													
D	C	d ₁	F	B ₁	B ₂	G	G ₁	C ₁	n	B ₃	α	e	h
12.700(1/2)	8.731 (11/32)	4.762 (-)	6	23	12.7	NO-10-32UNF	6.4	0.8	3	-	-	10	1/8
12.700(1/2)	9.525 (3/8)	4.762(-)	6	27	15.9	NO-10-32UNF	6.4	0.8	3	-	-	10	1/8
15.875(5/8)	10.319 (13/32)	6.350(1/4)	8	27.8	15.9	1/4-28UNF	7.9	0.8	4	-	-	12.5	1/8
15.875(5/8)	11.112 (7/16)	6.350(1/4)	8	31.8	19.1	1/4-28UNF	7.9	0.8	4	-	-	12.5	1/8
19.050(3/4)	12.700 (1/2)	9.525(3/8)	12	36.5	22.2	3/8-24UNF	9.5	0.8	4	6.35	3	16.2	3/16
22.225(7/8)	12.700 (1/2)	9.525(3/8)	12	36.5	22.2	3/8-24UNF	9.5	0.8	4	6.35	3	16.2	3/16
25.400(1)	15.875 (5/8)	11.112(7/16)	13	42.8	25.4	7/16-20UNF	12.7	0.8	4	6.35	3	21	1/4
28.575 (1 1/8)	15.875 (5/8)	11.112(7/16)	13	42.8	25.4	7/16-20UNF	12.7	0.8	4	6.35	3	21	1/4
31.750 (1 1/4)	19.050 (3/4)	12.700(1/2)	16	52.4	31.8	1/2-20UNF	15.9	0.8	6	7.94	3	25	1/4
34.925 (1 3/8)	19.050 (3/4)	12.700(1/2)	16	52.4	31.8	1/2-20UNF	15.9	0.8	6	7.94	3	25	1/4
38.100 (1 1/2)	22.225 (7/8)	15.875(5/8)	20	61.9	38.1	5/8-18UNF	19.1	0.8	6	9.53	4	30	5/16
41.275 (1 5/8)	22.225 (7/8)	15.875(5/8)	20	61.9	38.1	5/8-18UNF	19.1	0.8	6	9.53	4	30	5/16
44.450 (1 3/4)	25.400 (1)	19.050(3/4)	25	71.4	44.4	3/4-16UNF	22.2	0.8	6	11.11	4	36.5	5/16
47.625 (1 7/8)	25.400 (1)	19.050(3/4)	25	71.4	44.4	3/4-16UNF	22.2	0.8	6	11.11	4	36.5	5/16
50.800 (2)	31.750 (1 1/4)	22.225(7/8)	30	84.1	50.8	7/8-14UNF	25.4	0.8	8	12.7	5	41.5	7/16
57.150 (2 1/4)	31.750 (1 1/4)	22.225(7/8)	30	84.1	50.8	7/8-14UNF	25.4	0.8	8	12.7	5	41.5	7/16

Basic Load Rating		Load Rating of Track		Limiting speed		Maximum Tightening Torque	Bearing Designation		Mass Approx (kg)
(KN)				(rpm)			Type CR	Type CRPP	
Cr	Cor	Spherical Outer Ring	Cylindrical Outer Ring	Grease	Oil				(N.m)
2.82	2.45	2.09	0.79	7500	10000	2	CR8	-	0.009
2.82	2.45	2.31	0.79	7500	10000	2	CR8-1	-	0.010
4.05	4.00	3.00	1.08	7500	10000	4	CR10	-	0.020
4.05	4.00	3.30	1.08	7500	10000	4	CR10-1	CR10-1PP	0.022
5.30	6.65	4.60	1.38	13000	10000	13	CR12	CR12PP	0.037
5.30	6.65	5.35	1.71	13000	10000	13	CR14	CR14PP	0.048
7.25	8.35	7.40	2.06	12000	15000	18	CR16	CR16PP	0.087
7.25	8.35	8.35	2.43	12000	15000	18	CR18	CR18PP	0.100
11.40	15.90	11.40	2.84	9000	13000	24	CR20	CR20PP	0.150
11.40	15.90	12.50	3.25	9000	13000	24	CR22	CR22PP	0.166
13.30	20.10	16.30	3.60	7500	10000	51	CR24	CR24PP	0.235
13.30	20.10	17.60	4.05	7500	10000	51	CR26	CR26PP	0.265
20.70	33.50	21.60	4.40	6000	8000	92	CR28	CR28PP	0.375
20.70	33.50	23.20	4.85	6000	8000	92	CR30	CR30PP	0.420
28.90	55.00	31.00	5.30	5000	6600	150	CR32	CR32PP	0.505
28.90	55.00	35.00	6.20	5000	6600	150	CR36	CR36PP	0.750

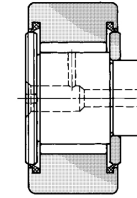
Cam Followers : Stud Type Track Rollers (Inch Series)



Cam Followers : Stud Type Track Rollers (Inch Series)



Type CRV
(Full-complement roller type)



Type CRVPP
(Full-Complement Roller and Sealed Type)

Boundary Dimensions															Basic Load Rating		Load Rating of Track		Limiting speed		Maximum Tightening Torque	Bearing Designation		Mass Approx (kg)
mm (1/25.4 mm)															(KN)				(rpm)					
D	C	d ₁	F	B ₁	B ₂	G	G ₁	C ₁	n	B ₃	α	e	h		Cr	Cor	(KN)		Grease	Oil		(N.m)	Type CRV	
																	Spherical Outer Ring	Cylindrical Outer Ring						
12.700(1/2)	8.731 (11/32)	4.826(-)	5.75	23	12.7	NO-10-32UNF	6.4	0.8	3	-	-	10	1/8		3.40	3.75	2.09	0.79	8000	10000	2	CRV8	CRV8PP	0.010
12.700(1/2)	9.525(3/8)	4.826(-)	5.75	27	15.9	NO-10-32UNF	6.4	0.8	3	-	-	10	1/8	3.95	4.55	2.31	0.79	8000	10000	2	CRV8-1	CRV8-1PP	0.011	
15.875(5/8)	10.319(13/32)	6.350(1/4)	8.11	27.8	15.9	1/4-28UNF	7.9	0.8	4	-	-	12.5	1/8	5.55	7.60	3.00	1.08	8000	10000	4	CRV10	CRV10PP	0.020	
15.875(5/8)	11.112(7/16)	6.350(1/4)	8.11	31.8	19.1	1/4-28UNF	7.9	0.8	4	-	-	12.5	1/8	6.20	8.70	3.30	1.08	8000	10000	4	CRV10-1	CRV10-1PP	0.022	
19.050(3/4)	12.700(1/2)	9.525(3/8)	11	36.5	22.2	3/8-24UNF	9.5	0.8	4	6.35	3	15.5	3/16	8.05	13.30	4.60	1.38	9000	10000	13	CRV12	CRV12PP	0.038	
22.225(7/8)	12.700(1/2)	9.525(3/8)	11	36.5	22.2	3/8-24UNF	9.5	0.8	4	6.35	3	15.5	3/16	8.05	13.30	5.35	1.71	9000	10000	13	CRV14	CRV14PP	0.048	
25.400(1)	15.875(5/8)	11.112(7/16)	14	43	25.4	7/16-20UNF	12.7	0.8	4	6.35	3	19.5	1/4	11.70	18.90	7.40	2.06	7100	9200	18	CRV16	CRV16PP	0.080	
28.575(1 1/8)	15.875(5/8)	11.112(7/16)	14	43	25.4	7/16-20UNF	12.7	0.8	4	6.35	3	19.5	1/4	11.70	18.90	8.35	2.43	7100	9200	18	CRV18	CRV18PP	0.096	
31.750 (1 1/4)	19.050(3/4)	12.700(1/2)	18.47	52.4	31.8	1/2-20UNF	15.9	0.8	6	7.94	3	25	1/4	17.70	35.00	11.40	2.84	5400	7000	24	CRV20	CRV20PP	0.140	
34.925 (1 3/8)	19.050(3/4)	12.700(1/2)	18.47	52.4	31.8	1/2-20UNF	15.9	0.8	6	7.94	3	25	1/4	17.70	35.00	12.50	3.25	5400	7000	24	CRV22	CRV22PP	0.165	
38.100 (1 1/2)	22.225(7/8)	15.875(5/8)	21	61.9	38.1	5/8-18UNF	19.1	0.8	6	9.53	4	27	5/16	21.10	45.50	16.30	3.60	4800	6200	51	CRV24	CRV24PP	0.240	
41.275 (1 5/8)	22.225(7/8)	15.875(5/8)	21	61.9	38.1	5/8-18UNF	19.1	0.8	6	9.53	4	27	5/16	21.10	45.50	17.60	4.05	4800	6200	51	CRV26	CRV26PP	0.280	
44.450 (1 3/4)	25.400(1)	19.050(3/4)	24.65	71.4	44.5	3/4-16UNF	22.2	0.8	6	11.11	4	36.5	5/16	28.40	60.50	21.60	4.40	4100	5300	92	CRV28	CRV28PP	0.400	
47.625 (1 7/8)	25.400(1)	19.050(3/4)	24.65	71.4	44.5	3/4-16UNF	22.2	0.8	6	11.11	4	36.5	5/16	28.40	60.50	23.20	4.85	4100	5300	92	CRV30	CRV30PP	0.440	
50.800(2)	31.750(1 1/4)	22.225(7/8)	26.71	84.1	50.8	7/8-14UNF	25.4	0.8	6	12.7	5	36.5	7/16	41.00	87.50	31.00	5.30	3700	4800	150	CRV32	CRV32PP	0.650	
57.150(2 1/4)	31.750(1 1/4)	22.225(7/8)	26.71	84.1	50.8	7/8-14UNF	25.4	0.8	6	12.7	5	36.5	7/16	41.00	87.50	35.00	6.20	3700	4800	150	CRV36	CRV36PP	0.780	
63.500 (2 1/2)	38.100(1 1/2)	25.400(1)	31.15	96.8	57.2	1-14UNF	28.6	0.8	6	14.29	5	44	1/2	54.50	119.00	44.50	7.20	3200	4100	230	CRV40	CRV40PP	1.20	
69.850(2 3/4)	38.100 (1 1/2)	25.400(1)	31.15	96.8	57.2	1-14UNF	28.6	0.8	6	14.29	5	44	1/2	54.50	119.00	49.00	8.25	3200	4100	230	CRV44	CRV44PP	1.34	
76.200(3)	44.450(1 3/4)	31.750(1 1/4)	36.85	109.5	63.5	1 1/4-12UNF	31.8	0.8	8	15.88	5	53	5/8	76.50	177.00	64.00	9.15	2700	3500	435	CRV48	CRV48PP	1.92	
82.550(3 1/4)	44.450(1 3/4)	31.750(1 1/4)	36.85	109.5	63.5	1 1/4-12UNF	31.8	0.8	8	15.88	5	53	5/8	76.50	177.00	69.00	10.00	2700	3500	435	CRV52	CRV52PP	2.20	
88.900(3 1/2)	50.800(2)	34.925(1 3/8)	44.5	122.2	69.9	1 3/8-12UNF	34.9	0.8	8	17.46	5	60	5/8	84.50	214.00	86.50	11.10	2200	2800	580	CRV56	CRV56PP	2.92	
101.600(4)	57.150(2 1/4)	38.100(1 1/2)	44.5	147.6	88.9	1-1/2-12UNF	38.1	0.8	8	19.05	5	63	3/4	106.00	244.00	113.00	13.20	2200	2800	760	CRV64	CRV64PP	4.32	
127.000(5)	69.850(2 3/4)	50.800(2)	68.7	200	128.6	2-12UNF	65.1	0.8	8	22.23	5	89	7/8	189.00	520.00	165.00	17.90	1500	1900	1820	CRV80	CRV80PP	8.80	
152.400(6)	82.550(3 1/4)	63.500(2 1/2)	81.35	236.6	152.4	2 1/2-12UNF	76.2	0.8	8	25.4	5	110	1	260.00	675.00	240.00	22.10	1200	1500	3550	CRV96	CRV96PP	15.3	