

FYH[®]

NU-LOC[®]

**NU Concentric-LOC
BALL BEARING UNITS**



***EASY INSTALLATION
360° SHAFT CONTACT
TRUE CONCENTRIC LOCK***

CATALOG NO.3401

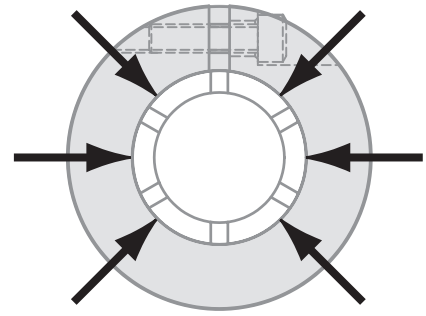


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Uniform LOC

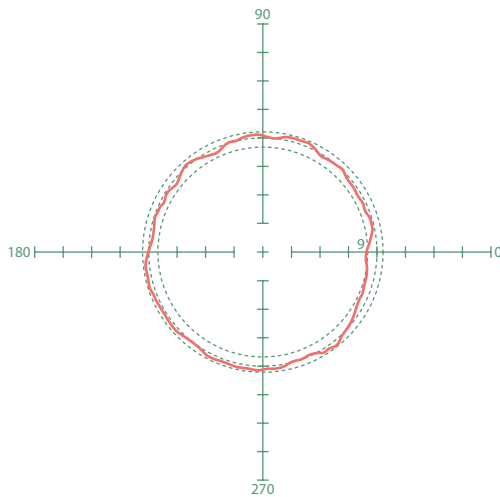
The FYH NU-LOC bearing grips the shaft more uniformly, which allows 360 degrees of equalized locking contact. The roundness of the ball path on NU-LOC bearings results in better operation and longer life. NU-LOC concentric locking collars are designed to prevent shaft marring and burring. A single standard hex head cap screw can be tightened quickly and easily. NU-LOC bearings can replace either setscrew or eccentric locking collar inserts.



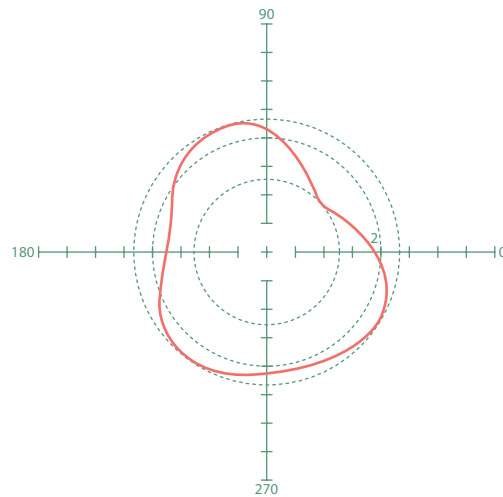
360° LOCKING

NU-LOC concentric locking collar with a single cap screw provides great holding power. The collar is installed over the slotted inner ring on the shaft concentrically.

Ballpath Roundness



NU-LOC

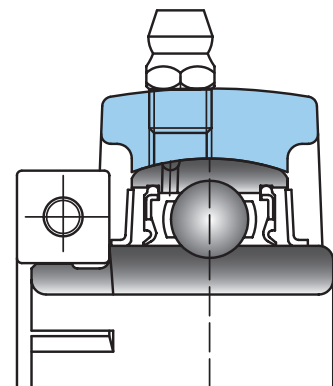


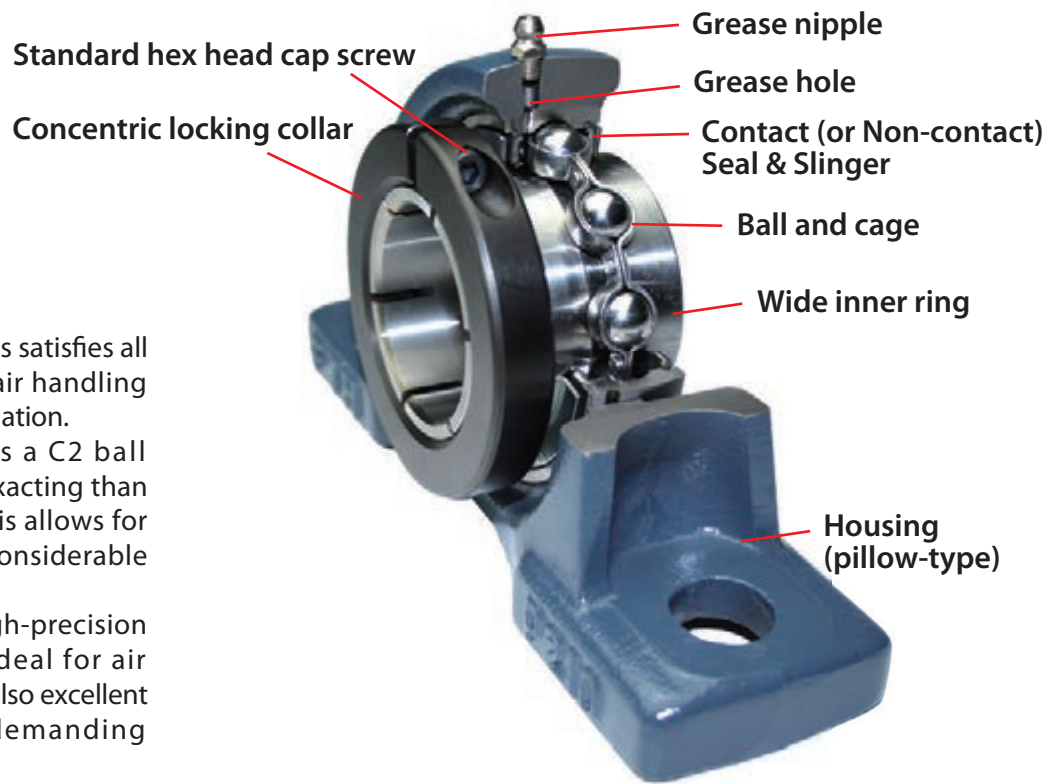
120° setscrew

Quick & Easy Installation with a single hex cap screw.



Cross-Section Detail





The standard NU-LOC series satisfies all the specifications of our air handling series under the "S3" designation.

This series incorporates a C2 ball clearance which is more exacting than the standard style, and this allows for quieter operation and a considerable reduction of vibration.

The NU-LOC series is a high-precision design and, while it is ideal for air handling applications, it is also excellent for many more highly demanding applications.

SUFFIX

P18 is the suffix code that designates smaller bore tolerance which allows for a tighter fit with the shaft. This, in turn, reduces vibration and noise and dramatically increases bearing life.

Tolerance and tolerance values of inner rings of P18 suffix (unit: μm)

Nominal bearing bore dia. d (mm)		Variation of tolerance of average bore dia. in plane Δ_{dmp}		Unequal bore dia. in plane V_{dp}	Radial runout of inner ring K_{ia}
Over	Incl.	Max.	Min.	Max.	Max.
–	10	+13	0	6	7
10	18	+13	0	6	8
18	31.75	+13	0	10	10
31.75	50.8	+15	0	10	10
50.8	80	+18	0	14	13

Tolerance and tolerance values of inner rings of ISO standard (unit: μm)

Nominal bearing bore dia. d (mm)		Variation of tolerance of average bore dia. in plane Δ_{dmp}		Unequal bore dia. in plane V_{dp}	Radial runout of inner ring K_{ia}
Over	Incl.	Max.	Min.	Max.	Max.
–	10	+15	0	10	10
10	18	+15	0	10	15
18	31.75	+18	0	12	18
31.75	50.8	+21	0	14	20
50.8	80	+24	0	16	25

P18

S3

P11

The anti-rotation pin, in conjunction with the standard "J" fit housing, means very secure housing fit in high speed applications.



C2

Internal bearing clearance is defined as the allowable space between the rolling elements and the raceways. C2 is smaller clearance than the standard, and it reduces the noise and vibration in high speed applications.

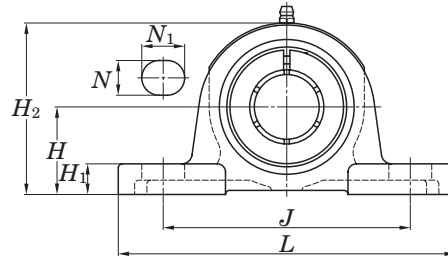
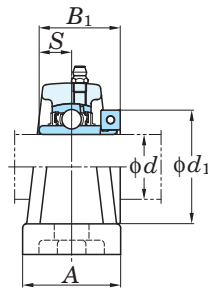
NU-LOC

Pillow type units NU-LOC

NCP

Cylindrical bore (with concentric locking collar)

d 20 ~ 60 mm



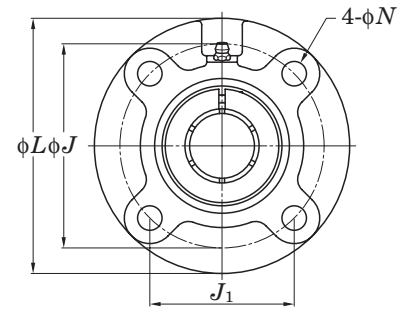
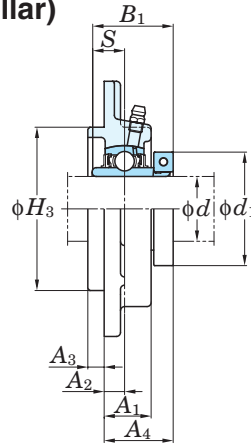
Shaft Dia mm inch		Dimensions inch mm											Bolt Size inch mm	Unit No.	Housing No.	Bearing No.	Mass kg
d		H	L	A	J	N	N_1	H_1	H_2	B_1	S	d_1					
20	3/4	1 5/16	5	1 1/2	3 3/4	1/2	23/32	1/2	2 17/32	1 9/32	0.500	1 3/4	3/8	NCP204-12	P204	NC204-12	0.80
		33.3	127	38	95	13	18	13	64	32.5	12.7	44.5	M10	NCP204		NC204	
25	7/8	1 7/16	5 1/2	1 1/2	4 1/8	1/2	23/32	1/2	2 25/32	1 7/16	0.563	1 15/16	3/8	NCP205-14	P205	NC205-14	1.0
	15/16	36.5	140	38	105	13	18	13	71	36.5	14.3	49.2	M10	NCP205-15		NC205-15	
	1													NCP205		NC205	
														NCP205-16		NC205-16	
30	1 1/8	1 11/16	6 1/2	1 7/8	4 3/4	21/32	13/16	19/32	3 5/16	1 9/16	0.626	2 3/16	1/2	NCP206-18	P206	NC206-18	1.5
	1 3/16	42.9	165	48	121	17	21	15	84	39.7	15.9	55.6	M14	NCP206		NC206	
	1 1/4													NCP206-19		NC206-19	
														NCP206-20		NC206-20	
35	1 1/4	1 7/8	6 9/16	1 7/8	5	21/32	13/16	5/8	3 21/32	1 3/4	0.689	2 7/16	1/2	NCP207-20	P207	NC207-20	1.9
		47.6	167	48	127	17	21	16	93	44.5	17.5	61.9	M14				
35	1 3/8	1 7/8	6 9/16	1 7/8	5	21/32	13/16	5/8	3 21/32	1 3/4	0.689	2 9/16	1/2	NCP207-22	P207	NC207-22	1.9
	1 7/16	47.6	167	48	127	17	21	16	93	44.5	17.5	65.1	M14	NCP207		NC207	
														NCP207-23		NC207-23	
40	1 1/2	1 15/16	7 1/4	2 1/8	5 13/32	21/32	13/16	21/32	3 27/32	2	0.748	2 11/16	1/2	NCP208-24	P208	NC208-24	2.4
		49.2	184	54	137	17	21	17	98	50.8	19	68.3	M14	NCP208		NC208	
45	1 5/8	2 1/8	7 15/32	2 1/8	5 3/4	21/32	13/16	21/32	4 3/16	2	0.748	2 13/16	1/2	NCP209-26	P209	NC209-26	2.6
		54	190	54	146	17	21	17	106	50.8	19	71.4	M14				
45	1 11/16	2 1/8	7 15/32	2 1/8	5 3/4	21/32	13/16	21/32	4 3/16	2	0.748	2 15/16	1/2	NCP209-27	P209	NC209-27	2.6
	1 3/4	54	190	54	146	17	21	17	106	50.8	19	74.6	M14	NCP209-28		NC209-28	
														NCP209		NC209	
50	1 15/16	2 1/4	8 1/8	2 3/8	6 1/4	25/32	7/8	3/4	4 7/16	2 3/32	0.748	3 3/8	5/8	NCP210-31	P210	NC210-31	3.5
	2	57.2	206	60	159	20	22	19	113	53.1	19	85.7	M16	NCP210		NC210	
														NCP210-32		NC210-32	
55	2	2 1/2	8 5/8	2 3/8	6 23/32	25/32	7/8	3/4	4 29/32	2 1/4	0.874	3 1/2	5/8	NCP211-32	P211	NC211-32	4.0
		63.5	219	60	171	20	22	19	125	57.1	22.2	88.9	M16				
55	2 3/16	2 1/2	8 5/8	2 3/8	6 23/32	25/32	7/8	3/4	4 29/32	2 1/4	0.874	3 5/8	5/8	NCP211	P211	NC211	4.0
		63.5	219	60	171	20	22	19	125	57.1	22.2	92.1	M16	NCP211-35		NC211-35	
60	2 1/4	2 3/4	9 1/2	2 3/4	7 1/4	25/32	31/32	7/8	5 7/16	2 5/8	1.000	4 1/16	5/8	NCP212-36	P212	NC212-36	5.6
		69.8	241	70	184	20	25	22	138	66.7	25.4	103.2	M16				
60	2 7/16	2 3/4	9 1/2	2 3/4	7 1/4	25/32	31/32	7/8	5 7/16	2 5/8	1.000	4 1/8	5/8	NCP212	P212	NC212	5.6
		69.8	241	70	184	20	25	22	138	66.7	25.4	104.8	M16	NCP212-39		NC212-39	

Round flange cartridge type units NU-LOC

NCFC

Cylindrical bore (with concentric locking collar)

d 20 ~ 60 mm



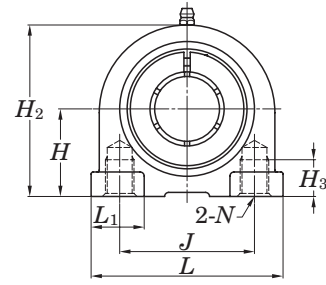
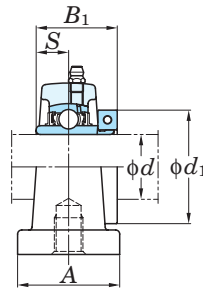
Shaft Dia mm inch		Dimensions inch mm												Bolt Size inch mm	Unit No.	Housing No.	Bearing No.	Mass kg
d		L	H_3	J	J_1	N	A_1	A_2	A_3	A_4	B_1	S	d_1					
20	$\frac{3}{4}$	3 $\frac{15}{16}$	2.4409	3 $\frac{5}{64}$	2 $\frac{11}{64}$	$\frac{15}{32}$	$\frac{13}{16}$	$\frac{25}{64}$	$\frac{13}{64}$	1 $\frac{3}{16}$	1 $\frac{9}{32}$	0.500	1 $\frac{3}{4}$	$\frac{3}{8}$	NCFC204-12 NCFC204	FC204	NC204-12 NC204	0.87
		100	62	78	55.1	12	20.5	10	5	29.8	32.5	12.7	44.5	M10				
25	$\frac{7}{8}$	4 $\frac{17}{32}$	2.7559	3 $\frac{35}{64}$	2 $\frac{1}{2}$	$\frac{15}{32}$	$\frac{13}{16}$	$\frac{25}{64}$	$\frac{15}{64}$	1 $\frac{9}{32}$	1 $\frac{7}{16}$	0.563	1 $\frac{15}{16}$	$\frac{3}{8}$	NCFC205-14 NCFC205-15 NCFC205	FC205	NC205-14 NC205-15 NC205	1.2
	$\frac{15}{16}$	115	70	90	63.6	12	21	10	6	32.2	36.5	14.3	49.2	M10				
	1														NCFC205-16		NC205-16	
30	1 $\frac{1}{8}$	4 $\frac{29}{32}$	3.1496	3 $\frac{15}{16}$	2 $\frac{25}{32}$	$\frac{15}{32}$	$\frac{29}{32}$	$\frac{25}{64}$	$\frac{5}{16}$	1 $\frac{11}{32}$	1 $\frac{9}{16}$	0.626	2 $\frac{3}{16}$	$\frac{3}{8}$	NCFC206-18 NCFC206	FC206	NC206-18 NC206	1.5
	1 $\frac{3}{16}$	125	80	100	70.7	12	23	10	8	33.8	39.7	15.9	55.6	M10	NCFC206-19 NCFC206-20		NC206-19 NC206-20	
	1 $\frac{1}{4}$																	
35	1 $\frac{1}{4}$	5 $\frac{5}{16}$	3.5433	4 $\frac{21}{64}$	3 $\frac{1}{16}$	$\frac{35}{64}$	1 $\frac{1}{32}$	$\frac{7}{16}$	$\frac{5}{16}$	1 $\frac{1}{2}$	1 $\frac{3}{4}$	0.689	2 $\frac{7}{16}$	$\frac{7}{16}$	NCFC207-20	FC207	NC207-20	2.0
	1 $\frac{3}{8}$	135	90	110	77.8	14	26	11	8	38	44.5	17.5	61.9	M12	NCFC207-22 NCFC207	FC207	NC207-22 NC207	2.0
	1 $\frac{7}{16}$	135	90	110	77.8	14	26	11	8	38	44.5	17.5	65.1	M12	NCFC207-23		NC207-23	
40	1 $\frac{1}{2}$	5 $\frac{23}{32}$	3.9370	4 $\frac{23}{32}$	3 $\frac{11}{32}$	$\frac{35}{64}$	1 $\frac{1}{32}$	$\frac{7}{16}$	$\frac{25}{64}$	1 $\frac{11}{16}$	2	0.748	2 $\frac{11}{16}$	$\frac{7}{16}$	NCFC208-24 NCFC208	FC208	NC208-24 NC208	2.4
		145	100	120	84.8	14	26	11	10	42.8	50.8	19	68.3	M12				
45	1 $\frac{5}{8}$	6 $\frac{5}{16}$	4.1339	5 $\frac{13}{64}$	4 $\frac{3}{64}$	$\frac{5}{8}$	1 $\frac{1}{32}$	$\frac{25}{64}$	$\frac{15}{32}$	1 $\frac{21}{32}$	2	0.748	2 $\frac{13}{16}$	$\frac{1}{2}$	NCFC209-26	FC209	NC209-26	3.0
	1 $\frac{11}{16}$	160	105	132	93.3	16	26	10	12	41.8	50.8	19	71.4	M14	NCFC209-27 NCFC209-28 NCFC209	FC209	NC209-27 NC209-28 NC209	3.0
	1 $\frac{3}{4}$	160	105	132	93.3	16	26	10	12	41.8	50.8	19	74.6	M14				
50	1 $\frac{15}{16}$	6 $\frac{1}{2}$	4.3307	5 $\frac{7}{16}$	3 $\frac{27}{32}$	$\frac{5}{8}$	1 $\frac{3}{32}$	$\frac{25}{64}$	$\frac{15}{32}$	1 $\frac{3}{4}$	2 $\frac{3}{32}$	0.748	3 $\frac{3}{8}$	$\frac{1}{2}$	NCFC210-31 NCFC210	FC210	NC210-31 NC210	3.5
	2	165	110	138	97.6	16	28	10	12	44.1	53.1	19	85.7	M14	NCFC210-32		NC210-32	
55	2	7 $\frac{9}{32}$	4.9213	5 $\frac{29}{32}$	4 $\frac{11}{64}$	$\frac{3}{4}$	1 $\frac{7}{32}$	$\frac{33}{64}$	$\frac{15}{32}$	1 $\frac{7}{8}$	2 $\frac{1}{4}$	0.874	3 $\frac{1}{2}$	$\frac{5}{8}$	NCFC211-32	FC211	NC211-32	4.6
		185	125	150	106.1	19	31	13	12	47.9	57.1	22.2	88.9	M16	NCFC211	FC211	NC211	4.6
	2 $\frac{3}{16}$	185	125	150	106.1	19	31	13	12	47.9	57.1	22.2	92.1	M16	NCFC211-35		NC211-35	
60	2 $\frac{1}{4}$	7 $\frac{11}{16}$	5.3150	6 $\frac{19}{64}$	4 $\frac{29}{64}$	$\frac{3}{4}$	1 $\frac{13}{32}$	$\frac{43}{64}$	$\frac{15}{32}$	2 $\frac{9}{32}$	2 $\frac{5}{8}$	1.000	4 $\frac{1}{16}$	$\frac{5}{8}$	NCFC212-36	FC212	NC212-36	5.7
		195	135	160	113.1	19	36	17	12	58.3	66.7	25.4	103.2	M16	NCFC212	FC212	NC212	5.7
	2 $\frac{7}{16}$	195	135	160	113.1	19	36	17	12	58.3	66.7	25.4	104.8	M16	NCFC212-39		NC212-39	

NCFCF (For USA) is also available. Contact FYH for unit specifications.



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Tapped-base pillow type units NU-LOC
NCPA
Cylindrical bore (with concentric locking collar)
 d 20 ~ 50 mm



Shaft Dia mm inch		Dimensions inch mm											Unit No.	Housing No.	Bearing No.	Mass
d		H	L	A	J	N	H_2	H_3	L_1	B_1	S	d_1				kg
20	³ / ₄	1 ³ / ₁₆	3	1 ⁹ / ₁₆	2 ³ / ₆₄		2 ³ / ₈	¹ / ₂	1 ¹ / ₁₆	1 ⁹ / ₃₂	0.500	1 ³ / ₄	NCPA204-12 NCPA204	PA204	NC204-12 NC204	0.73
		30.2	76	40	52	M10×1.5	60	13	27	32.5	12.7	44.5				
25	⁷ / ₈												NCPA205-14	PA205	NC205-14	1.0
	¹⁵ / ₁₆	1 ⁷ / ₁₆	3 ⁵ / ₁₆	1 ²⁵ / ₃₂	2 ¹³ / ₆₄		2 ²⁵ / ₃₂	¹ / ₂	1 ³ / ₁₆	1 ⁷ / ₁₆	0.563	1 ¹⁵ / ₁₆	NCPA205-15 NCPA205		NC205-15 NC205	
	1	36.5	84	45	56	M10×1.5	71	13	30	36.5	14.3	49.2	NCPA205-16		NC205-16	
30	1 ¹ / ₈												NCPA206-18	PA206	NC206-18	1.4
		1 ¹¹ / ₁₆	3 ¹¹ / ₁₆	1 ³¹ / ₃₂	2 ¹⁹ / ₃₂		3 ⁵ / ₁₆	²³ / ₃₂	1 ¹³ / ₃₂	1 ⁹ / ₁₆	0.626	2 ³ / ₁₆	NCPA206		NC206	
	1 ³ / ₁₆	42.9	94	50	66	M14×2	84	18	36	39.7	15.9	55.6	NCPA206-19 NCPA206-20		NC206-19 NC206-20	
	1 ¹ / ₄															
35	1 ¹ / ₄	1 ⁷ / ₈	3 ¹¹ / ₃₂	2 ⁵ / ₃₂	3 ⁵ / ₃₂		3 ²¹ / ₃₂	²⁵ / ₃₂	1 ⁵ / ₈	1 ³ / ₄	0.689	2 ⁷ / ₁₆	NCPA207-20	PA207	NC207-20	2.0
		47.6	110	55	80	M14×2	93	20	41	44.5	17.5	61.9				
	1 ³ / ₈	1 ⁷ / ₈	3 ¹¹ / ₃₂	2 ⁵ / ₃₂	3 ⁵ / ₃₂		3 ²¹ / ₃₂	²⁵ / ₃₂	1 ⁵ / ₈	1 ³ / ₄	0.689	2 ⁹ / ₁₆	NCPA207-22 NCPA207 NCPA207-23	PA207	NC207-22 NC207 NC207-23	2.0
40	1 ⁷ / ₁₆	47.6	110	55	80	M14×2	93	20	41	44.5	17.5	65.1				
	1 ¹ / ₂	1 ¹⁵ / ₁₆	4 ⁹ / ₁₆	2 ⁹ / ₃₂	3 ⁵ / ₁₆		3 ¹⁵ / ₁₆	²⁵ / ₃₂	1 ⁵ / ₈	2	0.748	2 ¹¹ / ₁₆	NCPA208-24 NCPA208	PA208	NC208-24 NC208	2.4
		49.2	116	58	84	M14×2	100	20	41	50.8	19	68.3				
	1 ⁵ / ₈	2 ⁹ / ₆₄	4 ²³ / ₃₂	2 ³ / ₈	3 ³⁵ / ₆₄		4 ³ / ₁₆	³¹ / ₃₂	1 ²¹ / ₃₂	2	0.748	2 ¹³ / ₁₆	NCPA209-26	PA209	NC209-26	2.6
45		54.2	120	60	90	M14×2	106	25	42	50.8	19	71.4				
	1 ¹¹ / ₁₆	2 ⁹ / ₆₄	4 ²³ / ₃₂	2 ³ / ₈	3 ³⁵ / ₆₄		4 ³ / ₁₆	³¹ / ₃₂	1 ²¹ / ₃₂	2	0.748	2 ¹⁵ / ₁₆	NCPA209-27 NCPA209-28 NCPA209	PA209	NC209-27 NC209-28 NC209	2.6
	1 ³ / ₄	54.2	120	60	90	M14×2	106	25	42	50.8	19	74.6				
50	1 ¹⁵ / ₁₆	2 ¹ / ₄	5 ¹ / ₈	2 ¹⁷ / ₃₂	3 ⁴⁵ / ₆₄		4 ⁷ / ₁₆	³¹ / ₃₂	1 ²⁷ / ₃₂	2 ³ / ₃₂	0.748	3 ³ / ₈	NCPA210-31 NCPA210 NCPA210-32	PA210	NC210-31 NC210 NC210-32	3.4
	2	57.2	130	64	94	M16×2	113	25	47	53.1	19	85.7				

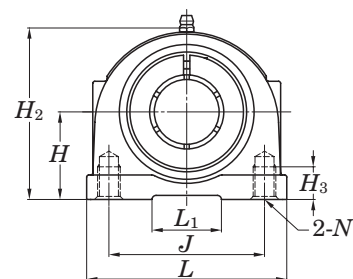
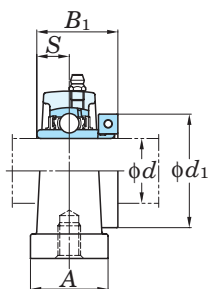
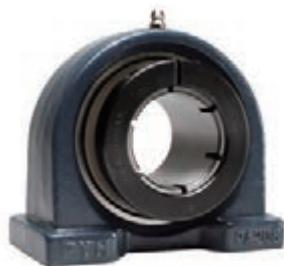
Tapped-base pillow type units NU-LOC

NCPAN

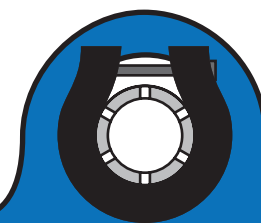
Cylindrical bore (with concentric locking collar)

d 20 ~ 35 mm

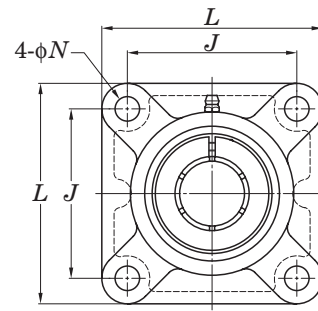
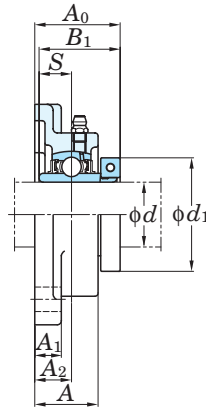
For USA



Shaft Dia mm inch		Dimensions inch mm											Unit No.	Housing No.	Bearing No.	Mass kg
d		H	L	A	J	N	H_2	H_3	L_1	B_1	S	d_1				
20	$\frac{3}{4}$	$1 \frac{5}{16}$	$2 \frac{9}{16}$	$1 \frac{1}{4}$	2	$\frac{3}{8}$ -16UNC	$2 \frac{17}{32}$	$\frac{1}{2}$	$\frac{7}{8}$	$1 \frac{9}{32}$	0.500	$1 \frac{3}{4}$	NCPAN204-12	PAN204	NC204-12	0.80
		33.3	65	32	50.8		64	12.7	22	32.5	12.7	44.5	NCPAN204		NC204	
25	$\frac{7}{8}$	$1 \frac{7}{16}$	$2 \frac{3}{4}$	$1 \frac{13}{32}$	2	$\frac{3}{8}$ -16UNC	$2 \frac{3}{4}$	$\frac{1}{2}$	$\frac{15}{16}$	$1 \frac{7}{16}$	0.563	$1 \frac{15}{16}$	NCPAN205-14	PAN205	NC205-14	1.4
	$\frac{15}{16}$	$1 \frac{7}{16}$	$2 \frac{3}{4}$	$1 \frac{13}{32}$	2	$\frac{3}{8}$ -16UNC	$2 \frac{3}{4}$	$\frac{1}{2}$	$\frac{15}{16}$	$1 \frac{7}{16}$	0.563	$1 \frac{15}{16}$	NCPAN205-15		NC205-15	
	1	$1 \frac{7}{16}$	$2 \frac{3}{4}$	$1 \frac{13}{32}$	2	$\frac{3}{8}$ -16UNC	$2 \frac{3}{4}$	$\frac{1}{2}$	$\frac{15}{16}$	$1 \frac{7}{16}$	0.563	$1 \frac{15}{16}$	NCPAN205		NC205	
30	$1 \frac{1}{8}$	$1 \frac{11}{16}$	$3 \frac{27}{32}$	$1 \frac{1}{2}$	3	$\frac{7}{16}$ -14UNC	$3 \frac{7}{32}$	$\frac{5}{8}$	$1 \frac{11}{32}$	$1 \frac{9}{16}$	0.626	$2 \frac{3}{16}$	NCPAN206-18	PAN206	NC206-18	1.9
	$1 \frac{3}{16}$	$1 \frac{11}{16}$	$3 \frac{27}{32}$	$1 \frac{1}{2}$	3	$\frac{7}{16}$ -14UNC	$3 \frac{7}{32}$	$\frac{5}{8}$	$1 \frac{11}{32}$	$1 \frac{9}{16}$	0.626	$2 \frac{3}{16}$	NCPAN206		NC206	
	$1 \frac{1}{4}$	$1 \frac{11}{16}$	$3 \frac{27}{32}$	$1 \frac{1}{2}$	3	$\frac{7}{16}$ -14UNC	$3 \frac{7}{32}$	$\frac{5}{8}$	$1 \frac{11}{32}$	$1 \frac{9}{16}$	0.626	$2 \frac{3}{16}$	NCPAN206-19		NC206-19	
		$1 \frac{11}{16}$	$3 \frac{27}{32}$	$1 \frac{1}{2}$	3	$\frac{7}{16}$ -14UNC	$3 \frac{7}{32}$	$\frac{5}{8}$	$1 \frac{11}{32}$	$1 \frac{9}{16}$	0.626	$2 \frac{3}{16}$	NCPAN206-20		NC206-20	
35	$1 \frac{1}{4}$	$1 \frac{7}{8}$	$4 \frac{11}{32}$	$1 \frac{7}{8}$	$3 \frac{1}{4}$	$\frac{1}{2}$ -13UNC	$3 \frac{21}{32}$	$\frac{3}{4}$	$1 \frac{3}{32}$	$1 \frac{3}{4}$	0.689	$2 \frac{7}{16}$	NCPAN207-20	PAN207	NC207-20	2.3
	$1 \frac{3}{8}$	$1 \frac{7}{8}$	$4 \frac{11}{32}$	$1 \frac{7}{8}$	$3 \frac{1}{4}$	$\frac{1}{2}$ -13UNC	$3 \frac{21}{32}$	$\frac{3}{4}$	$1 \frac{3}{32}$	$1 \frac{3}{4}$	0.689	$2 \frac{9}{16}$	NCPAN207-22	PAN207	NC207-22	2.3
	$1 \frac{7}{16}$	$1 \frac{7}{8}$	$4 \frac{11}{32}$	$1 \frac{7}{8}$	$3 \frac{1}{4}$	$\frac{1}{2}$ -13UNC	$3 \frac{21}{32}$	$\frac{3}{4}$	$1 \frac{3}{32}$	$1 \frac{3}{4}$	0.689	$2 \frac{9}{16}$	NCPAN207		NC207	
		$1 \frac{7}{16}$	$4 \frac{11}{32}$	$1 \frac{7}{8}$	$3 \frac{1}{4}$	$\frac{1}{2}$ -13UNC	$3 \frac{21}{32}$	$\frac{3}{4}$	$1 \frac{3}{32}$	$1 \frac{3}{4}$	0.689	$2 \frac{9}{16}$	NCPAN207-23		NC207-23	



Square four-bolt flange type units NU-LOC
NCF
Cylindrical bore (with concentric locking collar)
 d 20 ~ 60 mm



Shaft Dia mm inch		Dimensions inch mm										Bolt Size inch mm	Unit No.	Housing No.	Bearing No.	Mass kg
d		L	A	J	N	A_1	A_2	A_0	B_1	S	d_1					
20	$\frac{3}{4}$	$3 \frac{3}{8}$ 86	1 25.5	$2 \frac{33}{64}$ 64	$\frac{15}{32}$ 12	$\frac{7}{16}$ 11	$\frac{19}{32}$ 15	$1 \frac{3}{8}$ 34.8	$1 \frac{9}{32}$ 32.5	0.500 12.7	$1 \frac{3}{4}$ 44.5	$\frac{3}{8}$ M10	NCF204-12 NCF204	F204	NC204-12 NC204	0.73
	$\frac{7}{8}$ $\frac{15}{16}$ 1	$3 \frac{3}{4}$ 95	$1 \frac{1}{16}$ 27	$2 \frac{3}{4}$ 70	$\frac{15}{32}$ 12	$\frac{1}{2}$ 13	$\frac{5}{8}$ 16	$1 \frac{1}{2}$ 38.2	$1 \frac{7}{16}$ 36.5	0.563 14.3	$1 \frac{15}{16}$ 49.2	$\frac{3}{8}$ M10	NCF205-14 NCF205-15 NCF205 NCF205-16	F205	NC205-14 NC205-15 NC205 NC205-16	1.0
30	$1 \frac{1}{8}$	$4 \frac{1}{4}$ 108	$1 \frac{7}{32}$ 31	$3 \frac{17}{64}$ 83	$\frac{15}{32}$ 12	$\frac{1}{2}$ 13	$\frac{45}{64}$ 18	$1 \frac{21}{32}$ 41.8	$1 \frac{9}{16}$ 39.7	0.626 15.9	$2 \frac{3}{16}$ 55.6	$\frac{3}{8}$ M10	NCF206-18 NCF206 NCF206-19 NCF206-20	F206	NC206-18 NC206 NC206-19 NC206-20	1.3
	$1 \frac{3}{16}$	$4 \frac{19}{32}$ 117	$1 \frac{11}{32}$ 34	$3 \frac{5}{8}$ 92	$\frac{35}{64}$ 14	$\frac{19}{32}$ 15	$\frac{3}{4}$ 19	$1 \frac{13}{16}$ 46	$1 \frac{3}{4}$ 44.5	0.689 17.5	$2 \frac{7}{16}$ 61.9	$\frac{7}{16}$ M12	NCF207-20	F207	NC207-20	1.8
	$1 \frac{3}{8}$ $1 \frac{7}{16}$	$4 \frac{19}{32}$ 117	$1 \frac{11}{32}$ 34	$3 \frac{5}{8}$ 92	$\frac{35}{64}$ 14	$\frac{19}{32}$ 15	$\frac{3}{4}$ 19	$1 \frac{13}{16}$ 46	$1 \frac{3}{4}$ 44.5	0.689 17.5	$2 \frac{9}{16}$ 65.1	$\frac{7}{16}$ M12	NCF207-22 NCF207 NCF207-23	F207	NC207-22 NC207 NC207-23	1.8
40	$1 \frac{1}{2}$	$5 \frac{1}{8}$ 130	$1 \frac{13}{32}$ 36	$4 \frac{1}{64}$ 102	$\frac{5}{8}$ 16	$\frac{19}{32}$ 15	$\frac{53}{64}$ 21	$2 \frac{3}{32}$ 52.8	2 50.8	0.748 19	$2 \frac{11}{16}$ 68.3	$\frac{1}{2}$ M14	NCF208-24 NCF208	F208	NC208-24 NC208	2.3
	$1 \frac{5}{8}$	$5 \frac{13}{32}$ 137	$1 \frac{1}{2}$ 38	$4 \frac{9}{64}$ 105	$\frac{5}{8}$ 16	$\frac{5}{8}$ 16	$\frac{55}{64}$ 22	$2 \frac{1}{8}$ 53.8	2 50.8	0.748 19	$2 \frac{13}{16}$ 71.4	$\frac{1}{2}$ M14	NCF209-26	F209	NC209-26	2.6
45	$1 \frac{11}{16}$ $1 \frac{3}{4}$	$5 \frac{13}{32}$ 137	$1 \frac{1}{2}$ 38	$4 \frac{9}{64}$ 105	$\frac{5}{8}$ 16	$\frac{5}{8}$ 16	$\frac{55}{64}$ 22	$2 \frac{1}{8}$ 53.8	2 50.8	0.748 19	$2 \frac{15}{16}$ 74.6	$\frac{1}{2}$ M14	NCF209-27 NCF209-28 NCF209	F209	NC209-27 NC209-28 NC209	2.6
	$1 \frac{15}{16}$ 2	$5 \frac{5}{8}$ 143	$1 \frac{9}{16}$ 40	$4 \frac{3}{8}$ 111	$\frac{5}{8}$ 16	$\frac{5}{8}$ 16	$\frac{55}{64}$ 22	$2 \frac{7}{32}$ 56.1	$2 \frac{3}{32}$ 53.1	0.748 19	$3 \frac{3}{8}$ 85.7	$\frac{1}{2}$ M14	NCF210-31 NCF210 NCF210-32	F210	NC210-31 NC210 NC210-32	3.1
55	2	$6 \frac{3}{8}$ 162	$1 \frac{11}{16}$ 43	$5 \frac{1}{8}$ 130	$\frac{3}{4}$ 19	$\frac{23}{32}$ 18	$\frac{63}{64}$ 25	$2 \frac{11}{32}$ 59.9	$2 \frac{1}{4}$ 57.1	0.874 22.2	$3 \frac{1}{2}$ 88.9	$\frac{5}{8}$ M16	NCF211-32	F211	NC211-32	3.8
	$2 \frac{3}{16}$	$6 \frac{3}{8}$ 162	$1 \frac{11}{16}$ 43	$5 \frac{1}{8}$ 130	$\frac{3}{4}$ 19	$\frac{23}{32}$ 18	$\frac{63}{64}$ 25	$2 \frac{11}{32}$ 59.9	$2 \frac{1}{4}$ 57.1	0.874 22.2	$3 \frac{5}{8}$ 92.1	$\frac{5}{8}$ M16	NCF211 NCF211-35	F211	NC211 NC211-35	3.8
60	$2 \frac{1}{4}$	$6 \frac{7}{8}$ 175	$1 \frac{7}{8}$ 48	$5 \frac{5}{8}$ 143	$\frac{3}{4}$ 19	$\frac{23}{32}$ 18	$1 \frac{9}{64}$ 29	$2 \frac{25}{32}$ 70.3	$2 \frac{5}{8}$ 66.7	1.000 25.4	$4 \frac{1}{16}$ 103.2	$\frac{5}{8}$ M16	NCF212-36	F212	NC212-36	4.9
	$2 \frac{7}{16}$	$6 \frac{7}{8}$ 175	$1 \frac{7}{8}$ 48	$5 \frac{5}{8}$ 143	$\frac{3}{4}$ 19	$\frac{23}{32}$ 18	$1 \frac{9}{64}$ 29	$2 \frac{25}{32}$ 70.3	$2 \frac{5}{8}$ 66.7	1.000 25.4	$4 \frac{1}{8}$ 104.8	$\frac{5}{8}$ M16	NCF212 NCF212-39	F212	NC212 NC212-39	4.9

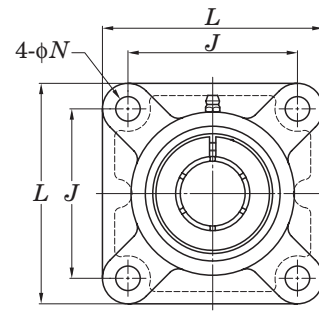
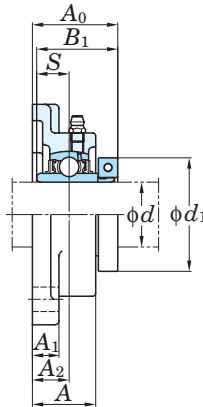
Square four-bolt flange type units NU-LOC

NCF-E

Cylindrical bore (with concentric locking collar)

d 20 ~ 60 mm

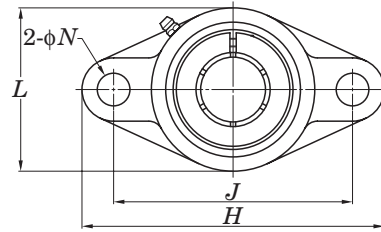
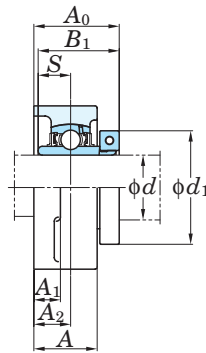
For USA



Shaft Dia mm inch		Dimensions inch mm										Bolt Size inch mm	Unit No.	Housing No.	Bearing No.	Mass kg
d		L	A	J	N	A_1	A_2	A_0	B_1	S	d_1					
20	$\frac{3}{4}$	$3 \frac{3}{8}$ 86	1 25.5	$2 \frac{33}{64}$ 64	$\frac{7}{16}$ 11	$\frac{7}{16}$ 11	$\frac{19}{32}$ 15	$1 \frac{3}{8}$ 34.8	$1 \frac{9}{32}$ 32.5	0.500 12.7	$1 \frac{3}{4}$ 44.5	$\frac{3}{8}$ —	NCF204-12E NCF204E	F204E	NC204-12 NC204	0.73
25	$\frac{7}{8}$ $\frac{15}{16}$ 1	$3 \frac{3}{4}$ 95	$1 \frac{1}{16}$ 27	$2 \frac{3}{4}$ 70	$\frac{15}{32}$ 12	$\frac{1}{2}$ 13	$\frac{5}{8}$ 16	$1 \frac{1}{2}$ 38.2	$1 \frac{7}{16}$ 36.5	0.563 14.3	$1 \frac{15}{16}$ 49.2	$\frac{3}{8}$ M10	NCF205-14 NCF205-15 NCF205 NCF205-16	F205	NC205-14 NC205-15 NC205 NC205-16	1.0
30	$1 \frac{1}{8}$ $1 \frac{3}{16}$ $1 \frac{1}{4}$	$4 \frac{1}{4}$ 108	$1 \frac{7}{32}$ 31	$3 \frac{17}{64}$ 83	$\frac{33}{64}$ 13	$\frac{1}{2}$ 13	$\frac{45}{64}$ 18	$1 \frac{21}{32}$ 41.8	$1 \frac{9}{16}$ 39.7	0.626 15.9	$2 \frac{3}{16}$ 55.6	$\frac{7}{16}$ —	NCF206-18E NCF206E NCF206-19E NCF206-20E	F206E	NC206-18 NC206 NC206-19 NC206-20	1.3
35	$1 \frac{1}{4}$ $1 \frac{3}{8}$ $1 \frac{7}{16}$	$4 \frac{19}{32}$ 117	$1 \frac{11}{32}$ 34	$3 \frac{5}{8}$ 92	$\frac{33}{64}$ 13	$\frac{19}{32}$ 15	$\frac{3}{4}$ 19	$1 \frac{13}{16}$ 46	$1 \frac{3}{4}$ 44.5	0.689 17.5	$2 \frac{7}{16}$ 61.9	$\frac{7}{16}$ —	NCF207-20E	F207E	NC207-20	1.8
40	$1 \frac{1}{2}$	$5 \frac{1}{8}$ 130	$1 \frac{13}{32}$ 36	$4 \frac{1}{64}$ 102	$\frac{35}{64}$ 14	$\frac{19}{32}$ 15	$\frac{53}{64}$ 21	$2 \frac{3}{32}$ 52.8	2 50.8	0.748 19	$2 \frac{11}{16}$ 68.3	$\frac{1}{2}$ —	NCF208-24E NCF208E	F208E	NC208-24 NC208	2.3
45	$1 \frac{5}{8}$ $1 \frac{11}{16}$ $1 \frac{3}{4}$	$5 \frac{13}{32}$ 137	$1 \frac{1}{2}$ 38	$4 \frac{9}{64}$ 105	$\frac{5}{8}$ 16	$\frac{5}{8}$ 16	$\frac{55}{64}$ 22	$2 \frac{1}{8}$ 53.8	2 50.8	0.748 19	$2 \frac{13}{16}$ 71.4	$\frac{1}{2}$ M14	NCF209-26	F209	NC209-26	2.6
50	$1 \frac{15}{16}$ 2	$5 \frac{5}{8}$ 143	$1 \frac{9}{16}$ 40	$4 \frac{3}{8}$ 111	$\frac{5}{8}$ 16	$\frac{5}{8}$ 16	$\frac{55}{64}$ 22	$2 \frac{7}{32}$ 56.1	$2 \frac{3}{32}$ 53.1	0.748 19	$3 \frac{3}{8}$ 85.7	$\frac{1}{2}$ M14	NCF210-31 NCF210 NCF210-32	F210	NC210-31 NC210 NC210-32	3.1
55	2 $2 \frac{3}{16}$	$6 \frac{3}{8}$ 162	$1 \frac{11}{16}$ 43	$5 \frac{1}{8}$ 130	$\frac{43}{64}$ 17	$\frac{23}{32}$ 18	$\frac{63}{64}$ 25	$2 \frac{11}{32}$ 59.9	$2 \frac{1}{4}$ 57.1	0.874 22.2	$3 \frac{1}{2}$ 88.9	$\frac{5}{8}$ —	NCF211-32E	F211E	NC211-32	3.8
60	$2 \frac{1}{4}$ $2 \frac{7}{16}$	$6 \frac{7}{8}$ 175	$1 \frac{7}{8}$ 48	$5 \frac{5}{8}$ 143	$\frac{43}{64}$ 17	$\frac{23}{32}$ 18	$1 \frac{9}{64}$ 29	$2 \frac{25}{32}$ 70.3	$2 \frac{5}{8}$ 66.7	1.000 25.4	$4 \frac{1}{16}$ 103.2	$\frac{5}{8}$ —	NCF212-36E	F212E	NC212-36	4.9
		$6 \frac{7}{8}$ 175	$1 \frac{7}{8}$ 48	$5 \frac{5}{8}$ 143	$\frac{43}{64}$ 17	$\frac{23}{32}$ 18	$1 \frac{9}{64}$ 29	$2 \frac{25}{32}$ 70.3	$2 \frac{5}{8}$ 66.7	1.000 25.4	$4 \frac{1}{8}$ 104.8	$\frac{5}{8}$ —	NCF212E NCF212-39E	F212E	NC212 NC212-39	4.9



Oval tow-bolt flange type units NU-LOC
NCFL
Cylindrical bore (with concentric locking collar)
 d 20 ~ 60 mm



Shaft Dia mm inch		Dimensions inch mm											Bolt Size inch mm	Unit No.	Housing No.	Bearing No.	Mass kg
d		H	L	A	J	N	A_1	A_2	A_0	B_1	S	d_1					
20	3/4	4 7/16	2 3/8	1	3 35/64	15/32	7/16	19/32	1 3/8	1 9/32	0.500	1 3/4	3/8	NCFL204-12 NCFL204	FL204	NC204-12 NC204	0.62
		113	60	25.5	90	12	11	15	34.8	32.5	12.7	44.5	M10				
25	7/8													NCFL205-14	FL205	NC205-14	0.84
	15/16	5 1/8	2 11/16	1 1/16	3 57/64	5/8	1/2	5/8	1 1/2	1 7/16	0.563	1 15/16	1/2	NCFL205-15 NCFL205		NC205-15 NC205	
	1	130	68	27	99	16	13	16	38.2	36.5	14.3	49.2	M14	NCFL205-16		NC205-16	
30	1 1/8													NCFL206-18	FL206	NC206-18	1.1
	1 3/16	5 13/16	3 5/32	1 7/32	4 39/64	5/8	1/2	45/64	1 21/32	1 9/16	0.626	2 3/16	1/2	NCFL206		NC206	
	1 1/4	148	80	31	117	16	13	18	41.8	39.7	15.9	55.6	M14	NCFL206-19 NCFL206-20		NC206-19 NC206-20	
35	1 1/4	6 11/32	3 17/32	1 11/32	5 1/8	5/8	9/16	3/4	1 13/16	1 3/4	0.689	2 7/16	1/2	NCFL207-20	FL207	NC207-20	1.5
	1 3/8													NCFL207-22 NCFL207	FL207	NC207-22 NC207	1.5
	1 7/16	161	90	34	130	16	14	19	46	44.5	17.5	65.1	M14	NCFL207-23		NC207-23	
40	1 1/2	6 7/8	3 15/16	1 13/32	5 43/64	5/8	9/16	53/64	2 3/32	2	0.748	2 11/16	1/2	NCFL208-24 NCFL208	FL208	NC208-24 NC208	2.0
		175	100	36	144	16	14	21	52.8	50.8	19	68.3	M14				
45	1 5/8	7 13/32	4 1/4	1 1/2	5 53/64	3/4	19/32	55/64	2 1/8	2	0.748	2 13/16	5/8	NCFL209-26	FL209	NC209-26	2.3
	1 11/16													NCFL209-27 NCFL209-28	FL209	NC209-27 NC209-28	2.3
	1 3/4	188	108	38	148	19	15	22	53.8	50.8	19	74.6	M16	NCFL209		NC209	
50	1 15/16	7 3/4	4 17/32	1 9/16	6 3/16	3/4	19/32	55/64	2 7/32	2 3/32	0.748	3 3/8	5/8	NCFL210-31 NCFL210	FL210	NC210-31 NC210	2.8
	2	197	115	40	157	19	15	22	56.1	53.1	19	85.7	M16	NCFL210-32		NC210-32	
55	2	8 13/16	5 1/8	1 11/16	7 1/4	3/4	23/32	63/64	2 11/32	2 1/4	0.874	3 1/2	5/8	NCFL211-32	FL211	NC211-32	3.7
		224	130	43	184	19	18	25	59.9	57.1	22.2	88.9	M16				
	2 3/16	8 13/16	5 1/8	1 11/16	7 1/4	3/4	23/32	63/64	2 11/32	2 1/4	0.874	3 5/8	5/8	NCFL211 NCFL211-35	FL211	NC211 NC211-35	3.7
60	2 1/4	9 27/32	5 1/2	1 7/8	7 61/64	29/32	23/32	1 9/64	2 25/32	2 5/8	1.000	4 1/16	3/4	NCFL212-36	FL212	NC212-36	4.9
		250	140	48	202	23	18	29	70.3	66.7	25.4	103.2	M20				
	2 7/16	9 27/32	5 1/2	1 7/8	7 61/64	29/32	23/32	1 9/64	2 25/32	2 5/8	1.000	4 1/8	3/4	NCFL212 NCFL212-39	FL212	NC212 NC212-39	4.9

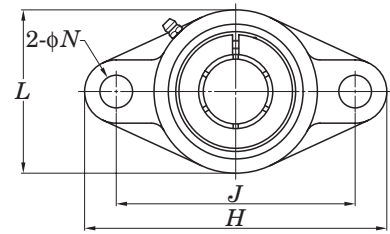
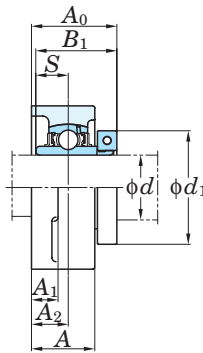
Oval tow-bolt flange type units NU-LOC

NCFL-E

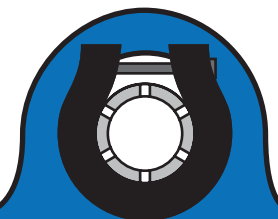
Cylindrical bore (with concentric locking collar)

d 20 ~ 60 mm

For USA



Shaft Dia mm inch		Dimensions inch mm											Bolt Size	Unit No.	Housing No.	Bearing No.	Mass
<i>d</i>		<i>H</i>	<i>L</i>	<i>A</i>	<i>J</i>	<i>N</i>	<i>A</i> ₁	<i>A</i> ₂	<i>A</i> ₀	<i>B</i> ₁	<i>S</i>	<i>d</i> ₁	inch				kg
20	³ / ₄	4 ⁷ / ₁₆ 113	2 ³ / ₈ 60	1 25.5	3 ¹⁷ / ₃₂ 89.7	²⁵ / ₆₄ 10	⁷ / ₁₆ 11	¹⁹ / ₃₂ 15	1 ³ / ₈ 34.8	1 ⁹ / ₃₂ 32.5	0.500 12.7	1 ³ / ₄ 44.5	⁵ / ₁₆	NCFL204-12E NCFL204E	FL204E	NC204-12 NC204	0.62
	⁷ / ₈ ¹⁵ / ₁₆ 1	5 ¹ / ₈ 130	2 ¹¹ / ₁₆ 68	1 ¹ / ₁₆ 27	3 ⁵⁷ / ₆₄ 98.8	¹⁵ / ₃₂ 12	¹ / ₂ 13	⁵ / ₈ 16	1 ¹ / ₂ 38.2	1 ⁷ / ₁₆ 36.5	0.563 14.3	1 ¹⁵ / ₁₆ 49.2	³ / ₈	NCFL205-14E NCFL205-15E NCFL205E NCFL205-16E	FL205E	NC205-14 NC205-15 NC205 NC205-16	0.84
30	1 ¹ / ₈ 1 ³ / ₁₆ 1 ¹ / ₄	5 ¹³ / ₁₆ 148	3 ⁵ / ₃₂ 80	1 ⁷ / ₃₂ 31	4 ¹⁹ / ₃₂ 116.7	¹⁵ / ₃₂ 12	¹ / ₂ 13	⁴⁵ / ₆₄ 18	1 ²¹ / ₃₂ 41.8	1 ⁹ / ₁₆ 39.7	0.626 15.9	2 ³ / ₁₆ 55.6	³ / ₈	NCFL206-18E NCFL206E NCFL206-19E NCFL206-20E	FL206E	NC206-18 NC206 NC206-19 NC206-20	1.1
	1 ¹ / ₄ 1 ³ / ₈ 1 ⁷ / ₁₆	6 ¹¹ / ₃₂ 161	3 ¹⁷ / ₃₂ 90	1 ¹¹ / ₃₂ 34	5 ¹ / ₈ 130.2	³³ / ₆₄ 13	⁹ / ₁₆ 14	³ / ₄ 19	1 ¹³ / ₁₆ 46	1 ³ / ₄ 44.5	0.689 17.5	2 ⁷ / ₁₆ 61.9	⁷ / ₁₆	NCFL207-20E	FL207E	NC207-20	1.5
		6 ¹¹ / ₃₂ 161	3 ¹⁷ / ₃₂ 90	1 ¹¹ / ₃₂ 34	5 ¹ / ₈ 130.2	³³ / ₆₄ 13	⁹ / ₁₆ 14	³ / ₄ 19	1 ¹³ / ₁₆ 46	1 ³ / ₄ 44.5	0.689 17.5	2 ⁹ / ₁₆ 65.1	⁷ / ₁₆	NCFL207-22E NCFL207E NCFL207-23E	FL207E	NC207-22 NC207 NC207-23	1.5
40	1 ¹ / ₂	6 ⁷ / ₈ 175	3 ¹⁵ / ₁₆ 100	1 ¹³ / ₃₂ 36	5 ²¹ / ₃₂ 143.7	³³ / ₆₄ 13	⁹ / ₁₆ 14	⁵³ / ₆₄ 21	2 ³ / ₃₂ 52.8	2 50.8	0.748 19	2 ¹¹ / ₁₆ 68.3	⁷ / ₁₆	NCFL208-24E NCFL208E	FL208E	NC208-24 NC208	2.0
45	1 ⁵ / ₈	7 ¹³ / ₃₂ 188	4 ¹ / ₄ 108	1 ¹ / ₂ 38	5 ²⁷ / ₃₂ 148.4	¹⁹ / ₃₂ 15	¹⁹ / ₃₂ 15	⁵⁵ / ₆₄ 22	2 ¹ / ₈ 53.8	2 50.8	0.748 19	2 ¹³ / ₁₆ 71.4	¹ / ₂	NCFL209-26E	FL209E	NC209-26	2.3
	1 ¹¹ / ₁₆ 1 ³ / ₄	7 ¹³ / ₃₂ 188	4 ¹ / ₄ 108	1 ¹ / ₂ 38	5 ²⁷ / ₃₂ 148.4	¹⁹ / ₃₂ 15	¹⁹ / ₃₂ 15	⁵⁵ / ₆₄ 22	2 ¹ / ₈ 53.8	2 50.8	0.748 19	2 ¹⁵ / ₁₆ 74.6	¹ / ₂	NCFL209-27E NCFL209-28E NCFL209E	FL209E	NC209-27 NC209-28 NC209	2.3
50	1 ¹⁵ / ₁₆ 2	7 ³ / ₄ 197	4 ¹⁷ / ₃₂ 115	1 ⁹ / ₁₆ 40	6 ³ / ₁₆ 157	¹⁹ / ₃₂ 15	¹⁹ / ₃₂ 15	⁵⁵ / ₆₄ 22	2 ⁷ / ₃₂ 56.1	2 ³ / ₃₂ 53.1	0.748 19	3 ³ / ₈ 85.7	¹ / ₂	NCFL210-31E NCFL210E NCFL210-32E	FL210E	NC210-31 NC210 NC210-32	2.8
55	2	8 ¹³ / ₁₆ 224	5 ¹ / ₈ 130	1 ¹¹ / ₁₆ 43	7 ¹ / ₄ 184	²¹ / ₃₂ 16.5	²³ / ₃₂ 18	⁶³ / ₆₄ 25	2 ¹¹ / ₃₂ 59.9	2 ¹ / ₄ 57.1	0.874 22.2	3 ¹ / ₂ 88.9	⁹ / ₁₆	NCFL211-32E	FL211E	NC211-32	3.7
	2 ³ / ₁₆	8 ¹³ / ₁₆ 224	5 ¹ / ₈ 130	1 ¹¹ / ₁₆ 43	7 ¹ / ₄ 184	²¹ / ₃₂ 16.5	²³ / ₃₂ 18	⁶³ / ₆₄ 25	2 ¹¹ / ₃₂ 59.9	2 ¹ / ₄ 57.1	0.874 22.2	3 ⁵ / ₈ 92.1	⁹ / ₁₆	NCFL211E NCFL211-35E	FL211E	NC211 NC211-35	3.7
60	2 ¹ / ₄	9 ²⁷ / ₃₂ 250	5 ¹ / ₂ 140	1 ⁷ / ₈ 48	7 ⁶¹ / ₆₄ 202	²¹ / ₃₂ 16.5	²³ / ₃₂ 18	1 ⁹ / ₆₄ 29	2 ²⁵ / ₃₂ 70.3	2 ⁵ / ₈ 66.7	1.000 25.4	4 ¹ / ₁₆ 103.2	⁹ / ₁₆	NCFL212-36E	FL212E	NC212-36	4.9
	2 ⁷ / ₁₆	9 ²⁷ / ₃₂ 250	5 ¹ / ₂ 140	1 ⁷ / ₈ 48	7 ⁶¹ / ₆₄ 202	²¹ / ₃₂ 16.5	²³ / ₃₂ 18	1 ⁹ / ₆₄ 29	2 ²⁵ / ₃₂ 70.3	2 ⁵ / ₈ 66.7	1.000 25.4	4 ¹ / ₈ 104.8	⁹ / ₁₆	NCFL212E NCFL212-39E	FL212E	NC212 NC212-39	4.9

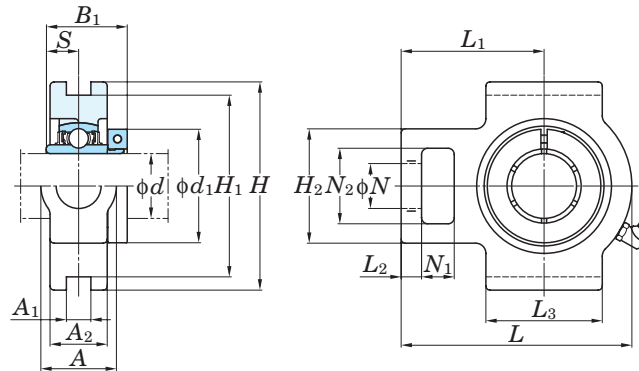


Take-up type units NU-LOC

NCT

Cylindrical bore (with concentric locking collar)

d 20 ~ 60 mm



Shaft Dia mm inch		Dimensions inch mm																Unit No.	Housing No.	Bearing No.	Mass kg
d		A	A ₁	A ₂	H	H ₁	H ₂	L	L ₁	L ₂	L ₃	N	N ₁	N ₂	B ₁	S	d ₁				
20	3/4	1 1/4	15/32	13/16	3 1/2	2 63/64	2	3 11/16	2 13/32	13/32	2	3/4	5/8	1 1/4	1 9/16	0.500	1 3/4	NCT204-12 NCT204	T204	NC204-12 NC204	0.90
		32	12	21	89	76	51	94	61	10	51	19	16	32	32.5	12.7	44.5				
25	7/8	1 1/4	15/32	15/16	3 1/2	2 63/64	2	3 13/16	2 7/16	13/32	2	3/4	5/8	1 1/4	1 7/16	0.563	1 15/16	NCT205-14 NCT205-15 NCT205	T205	NC205-14 NC205-15 NC205	1.0
	15/16	32	12	24	89	76	51	97	62	10	51	19	16	32	36.5	14.3	49.2	NCT205-16		NC205-16	
	1																				
30	1 1/8	1 15/32	15/32	1 3/32	4 1/32	3 1/2	2 7/32	4 7/16	2 3/4	13/32	2 1/4	7/8	5/8	1 15/32	1 9/16	0.626	2 3/16	NCT206-18 NCT206	T206	NC206-18 NC206	1.5
	1 3/16	37	12	28	102	89	56	113	70	10	57	22	16	37	39.7	15.9	55.6	NCT206-19 NCT206-20		NC206-19 NC206-20	
	1 1/4																				
35	1 1/4	1 15/32	15/32	1 3/16	4 1/32	3 1/2	2 17/32	5 3/32	3 1/16	1/2	2 17/32	7/8	5/8	1 15/32	1 3/4	0.689	2 7/16	NCT207-20	T207	NC207-20	1.9
		37	12	30	102	89	64	129	78	13	64	22	16	37	44.5	17.5	61.9				
	1 3/8	1 15/32	15/32	1 3/16	4 1/32	3 1/2	2 17/32	5 3/32	3 1/16	1/2	2 17/32	7/8	5/8	1 15/32	1 3/4	0.689	2 9/16	NCT207-22 NCT207		NC207-22 NC207	
	1 7/16	37	12	30	102	89	64	129	78	13	64	22	16	37	44.5	17.5	65.1	NCT207-23		NC207-23	
40	1 1/2	1 15/16	5/8	1 5/16	4 1/2	4 1/64	3 9/32	5 21/32	3 15/32	19/32	3 9/32	1 5/32	3/4	1 15/16	2	0.748	2 11/16	NCT208-24 NCT208	T208	NC208-24 NC208	2.9
		49	16	33	114	102	83	144	88	16	83	29	19	49	50.8	19	68.3				
45	1 5/8	1 15/16	5/8	1 3/8	4 19/32	4 1/64	3 9/32	5 21/32	3 7/16	5/8	3 9/32	1 5/32	3/4	1 15/16	2	0.748	2 13/16	NCT209-26	T209	NC209-26	2.8
		49	16	35	117	102	83	144	87	16	83	29	19	49	50.8	19	71.4				
	1 11/16	1 15/16	5/8	1 3/8	4 19/32	4 1/64	3 9/32	5 21/32	3 7/16	5/8	3 9/32	1 5/32	3/4	1 15/16	2	0.748	2 15/16	NCT209-27 NCT209-28 NCT209		NC209-27 NC209-28 NC209	
	1 3/4	49	16	35	117	102	83	144	87	16	83	29	19	49	50.8	19	74.6				
50	1 15/16	1 15/16	5/8	1 15/32	4 19/32	4 1/64	3 9/32	5 7/8	3 17/32	5/8	3 3/8	1 5/32	3/4	1 15/16	2 3/32	0.748	3 3/8	NCT210-31 NCT210 NCT210-32	T210	NC210-31 NC210 NC210-32	3.2
	2	49	16	37	117	102	83	149	90	16	86	29	19	49	53.1	19	85.7				
55	2	2 17/32	55/64	1 1/2	5 3/4	5 1/8	4 1/32	6 23/32	4 3/16	3/4	3 3/4	1 3/8	31/32	2 17/32	2 1/4	0.874	3 1/2	NCT211-32	T211	NC211-32	4.4
		64	22	38	146	130	102	171	106	19	95	35	25	64	57.1	22.2	88.9				
	2 3/16	2 17/32	55/64	1 1/2	5 3/4	5 1/8	4 1/32	6 23/32	4 3/16	3/4	3 3/4	1 3/8	31/32	2 17/32	2 1/4	0.874	3 5/8	NCT211 NCT211-35		NC211 NC211-35	
		64	22	38	146	130	102	171	106	19	95	35	25	64	57.1	22.2	92.1				4.4
60	2 1/4	2 17/32	55/64	1 21/32	5 3/4	5 1/8	4 1/32	7 5/8	4 11/16	3/4	4 1/32	1 3/8	1 1/4	2 17/32	2 5/8	1.000	4 1/16	NCT212-36	T212	NC212-36	5.6
		64	22	42	146	130	102	194	119	19	102	35	32	64	66.7	25.4	103.2				
	2 7/16	2 17/32	55/64	1 21/32	5 3/4	5 1/8	4 1/32	7 5/8	4 11/16	3/4	4 1/32	1 3/8	1 1/4	2 17/32	2 5/8	1.000	4 1/8	NCT212 NCT212-39		NC212 NC212-39	
		64	22	42	146	130	102	194	119	19	102	35	32	64	66.7	25.4	104.8				5.6

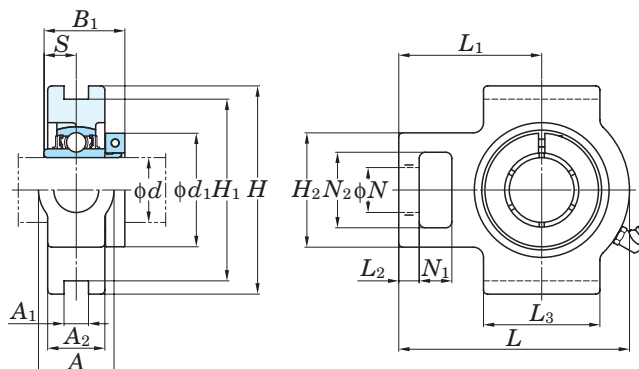
Take-up type units NU-LOC

NCT-E

Cylindrical bore (with concentric locking collar)

d 20 ~ 60 mm

For USA



Shaft Dia mm inch		Dimensions inch mm																Unit No.	Housing No.	Bearing No.	Mass
<i>d</i>		<i>A</i>	<i>A</i> ₁	<i>A</i> ₂	<i>H</i>	<i>H</i> ₁	<i>H</i> ₂	<i>L</i>	<i>L</i> ₁	<i>L</i> ₂	<i>L</i> ₃	<i>N</i>	<i>N</i> ₁	<i>N</i> ₂	<i>B</i> ₁	<i>S</i>	<i>d</i> ₁			kg	
20	3/4	1 1/4 32	17/32 13.5	13/16 21	3 1/2 89	3 76.2	2 51	3 11/16 94	2 13/32 61	13/32 10	2 51	3/4 19	5/8 16	1 1/4 32	1 9/32 32.5	0.500 12.7	1 3/4 44.5	NCT204-12E NCT204E	T204E	NC204-12 NC204	0.90
	7/8 15/16	1 1/4 32	17/32 13.5	15/16 24	3 1/2 89	3 76.2	2 51	3 13/16 97	2 7/16 62	13/32 10	2 51	3/4 19	5/8 16	1 1/4 32	1 7/16 36.5	0.563 14.3	1 15/16 49.2	NCT205-14E NCT205-15E NCT205E NCT205-16E	T205E	NC205-14 NC205-15 NC205 NC205-16	1.0
30	1 1/8	1 15/32 37	17/32 13.5	1 3/32 28	4 1/32 102	3 1/2 88.9	2 7/32 56	4 7/16 113	2 3/4 70	13/32 10	2 1/4 57	7/8 22	5/8 16	1 15/32 37	1 9/16 39.7	0.626 15.9	2 3/16 55.6	NCT206-18E NCT206E NCT206-19E NCT206-20E	T206E	NC206-18 NC206 NC206-19 NC206-20	1.5
	1 3/16	1 15/32 37	17/32 13.5	1 3/16 30	4 1/32 102	3 1/2 88.9	2 17/32 64	5 3/32 129	3 1/16 78	1/2 13	2 17/32 64	7/8 22	5/8 16	1 15/32 37	1 3/4 44.5	0.689 17.5	2 7/16 61.9	NCT207-20E	T207E	NC207-20	1.9
	1 3/8	1 15/32 37	17/32 13.5	1 3/16 30	4 1/32 102	3 1/2 88.9	2 17/32 64	5 3/32 129	3 1/16 78	1/2 13	2 17/32 64	7/8 22	5/8 16	1 15/32 37	1 3/4 44.5	0.689 17.5	2 9/16 65.1	NCT207-22E NCT207E NCT207-23E	T207E	NC207-22 NC207 NC207-23	1.9
	1 7/16	1 15/32 37	17/32 13.5	1 3/16 30	4 1/32 102	3 1/2 88.9	2 17/32 64	5 3/32 129	3 1/16 78	1/2 13	2 17/32 64	7/8 22	5/8 16	1 15/32 37	1 3/4 44.5	0.689 17.5	2 9/16 65.1	NCT207-22E NCT207E NCT207-23E	T207E	NC207-22 NC207 NC207-23	1.9
40	1 1/2	1 15/16 49	11/16 17.5	1 5/16 33	4 1/2 114	4 101.6	3 9/32 83	5 21/32 144	3 15/32 88	5/8 16	3 9/32 83	1 5/32 29	3/4 19	1 15/16 49	2 50.8	0.748 19	2 11/16 68.3	NCT208-24E NCT208E	T208E	NC208-24 NC208	2.9
	1 5/8	1 15/16 49	11/16 17.5	1 3/8 35	4 19/32 117	4 101.6	3 9/32 83	5 21/32 144	3 7/16 87	5/8 16	3 9/32 83	1 5/32 29	3/4 19	1 15/16 49	2 50.8	0.748 19	2 13/16 71.4	NCT209-26E	T209E	NC209-26	2.8
45	1 11/16	1 15/16 49	11/16 17.5	1 3/8 35	4 19/32 117	4 101.6	3 9/32 83	5 21/32 144	3 7/16 87	5/8 16	3 9/32 83	1 5/32 29	3/4 19	1 15/16 49	2 50.8	0.748 19	2 15/16 74.6	NCT209-27E NCT209-28E NCT209E	T209E	NC209-27 NC209-28 NC209	2.8
	1 3/4	1 15/16 49	11/16 17.5	1 3/8 35	4 19/32 117	4 101.6	3 9/32 83	5 21/32 144	3 7/16 87	5/8 16	3 9/32 83	1 5/32 29	3/4 19	1 15/16 49	2 50.8	0.748 19	2 15/16 74.6	NCT209-27E NCT209-28E NCT209E	T209E	NC209-27 NC209-28 NC209	2.8
	1 15/16	1 15/16 49	11/16 17.5	1 15/32 37	4 19/32 117	4 101.6	3 9/32 83	5 7/8 149	3 17/32 90	5/8 16	3 3/8 86	1 5/32 29	3/4 19	1 15/16 49	2 3/32 53.1	0.748 19	3 3/8 85.7	NCT210-31E NCT210E NCT210-32E	T210E	NC210-31 NC210 NC210-32	3.2
50	2	2 17/32 64	1 1/16 27	1 1/2 38	5 3/4 146	5 1/8 130.17	4 1/32 102	6 23/32 171	4 3/16 106	3/4 19	3 3/4 95	1 3/8 35	31/32 25	2 17/32 64	2 1/4 57.1	0.874 22.2	3 1/2 88.9	NCT211-32E	T211E	NC211-32	4.4
	2 3/16	2 17/32 64	1 1/16 27	1 1/2 38	5 3/4 146	5 1/8 130.17	4 1/32 102	6 23/32 171	4 3/16 106	3/4 19	3 3/4 95	1 3/8 35	31/32 25	2 17/32 64	2 1/4 57.1	0.874 22.2	3 5/8 92.1	NCT211E NCT211-35E	T211E	NC211 NC211-35	4.4
60	2 1/4	2 17/32 64	1 1/16 27	1 21/32 42	5 3/4 146	5 1/8 130.17	4 1/32 102	7 5/8 194	4 11/16 119	3/4 19	4 1/32 102	1 3/8 35	1 1/4 32	2 17/32 64	2 5/8 66.7	1.000 25.4	4 1/16 103.2	NCT212-36E	T212E	NC212-36	5.6
	2 7/16	2 17/32 64	1 1/16 27	1 21/32 42	5 3/4 146	5 1/8 130.17	4 1/32 102	7 5/8 194	4 11/16 119	3/4 19	4 1/32 102	1 3/8 35	1 1/4 32	2 17/32 64	2 5/8 66.7	1.000 25.4	4 1/8 104.8	NCT212E NCT212-39E	T212E	NC212 NC212-39	5.6

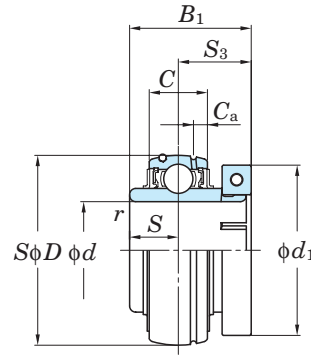


Ball bearing inserts NU-LOC

NC

Cylindrical bore (with concentric locking collar)

d 20 ~ 60 mm



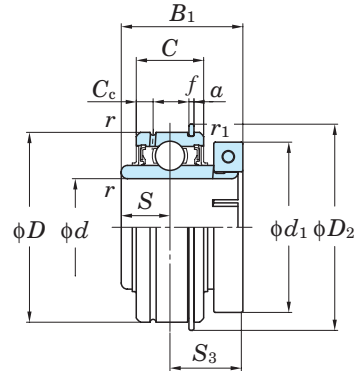
Shaft Dia mm inch		Dimensions inch mm				Basic Load Ratings kN		Factor	Bearing No.	Collar No.	Dimensions inch mm				Cap screw inch mm	Mass kg
d		D	B_1	C	r	C_r	C_{or}	f_0			C_a	S	S_3	d_1		
20	$\frac{3}{4}$	1.850	1.280	0.630	0.039	12.8	6.65	13.2	NC204-12	UCL204B	0.157	0.500	0.780	1.752	No.8-32UNC	0.30
		47	32.5	16	1				NC204	UCL204B	4	12.7	19.8	44.5	M4×0.7	
25	$\frac{7}{8}$	2.047	1.437	0.669	0.039	14.0	7.85	13.9	NC205-14	UCL205A	0.197	0.563	0.874	1.937	No.8-32UNC	0.40
	$\frac{15}{16}$								NC205-15	UCL205A					No.8-32UNC	
	1	52	36.5	17	1				NC205	UCL205A					M4×0.7	
30	$1\frac{1}{8}$	2.441	1.563	0.748	0.039	19.5	11.3	13.9	NC206-18	UCL206A	0.197	0.626	0.937	2.189	No.8-32UNC	0.50
	$1\frac{3}{16}$	62	39.7	19	1				NC206	UCL206A					M4×0.7	
	$1\frac{1}{4}$								NC206-19	UCL206A					No.8-32UNC	
									NC206-20	UCL206A					No.8-32UNC	
35	$1\frac{1}{4}$	2.835	1.752	0.787	0.043	25.7	15.4	13.9	NC207-20	UCL207A	0.217	0.689	1.063	2.437	No.10-24UNC	0.80
		72	44.5	20	1.1						5.5	17.5	27	61.9		
	$1\frac{3}{8}$	2.835	1.752	0.787	0.043				NC207-22	UCL207B	0.217	0.689	1.063	2.563	No.10-24UNC	0.80
35	$1\frac{7}{16}$	72	44.5	20	1.1				NC207	UCL207B					M5×0.8	
									NC207-23	UCL207B	5.5	17.5	27	65.1	No.10-24UNC	
40	$1\frac{1}{2}$	3.150	2.000	0.827	0.043	29.1	17.8	14.0	NC208-24	UCL208A	0.236	0.748	1.252	2.689	No.10-24UNC	1.0
		80	50.8	21	1.1				NC208	UCL208A	6	19	31.8	68.3	M5×0.8	
45	$1\frac{5}{8}$	3.346	2.000	0.866	0.043	34.1	21.3	14.0	NC209-26	UCL209A	0.236	0.748	1.252	2.811	No.10-24UNC	1.1
		85	50.8	22	1.1						6	19	31.8	71.4		
	$1\frac{11}{16}$	3.346	2.000	0.866	0.043				NC209-27	UCL209B	0.236	0.748	1.252	2.937	No.10-24UNC	1.1
45	$1\frac{3}{4}$	85	50.8	22	1.1				NC209-28	UCL209B					No.10-24UNC	
									NC209	UCL209B	6	19	31.8	74.6	M5×0.8	
50	$1\frac{15}{16}$	3.543	2.091	0.945	0.043	35.1	23.3	14.4	NC210-31	UCL210A	0.236	0.748	1.343	3.374	$\frac{1}{4}$ -20UNC	1.4
	2	90	53.1	24	1.1				NC210	UCL210A					M6×1	
55						43.4	29.4	14.4	NC210-32	UCL210A	0.236	0.748	1.343	3.374	$\frac{1}{4}$ -20UNC	1.4
									NC211-32	UCL211A						
55	2	3.937	2.248	0.984	0.059	43.4	29.4	14.4			0.276	0.874	1.374	3.500	$\frac{1}{4}$ -20UNC	1.5
		100	57.1	25	1.5				NC211	UCL211A						
60	$2\frac{3}{16}$	3.937	2.248	0.984	0.059	43.4	29.4	14.4	NC211-35	UCL211B	0.276	0.874	1.374	3.626	M6×1	1.5
		100	57.1	25	1.5										$\frac{1}{4}$ -20UNC	
60	$2\frac{1}{4}$	4.331	2.626	1.063	0.059	52.4	36.2	14.4	NC212-36	UCL212A	0.295	1.000	1.626	4.063	$\frac{5}{16}$ -18UNC	2.2
		110	66.7	27	1.5						7.5	25.4	41.3	103.2		
60	$2\frac{7}{16}$	4.331	2.626	1.063	0.059	52.4	36.2	14.4	NC212	UCL212B	0.295	1.000	1.626	4.126	M8×1.25	2.2
		110	66.7	27	1.5				NC212-39	UCL213B					$\frac{5}{16}$ -18UNC	

Ball bearing inserts NU-LOC

ERC

Cylindrical bore (with concentric locking collar)

d 20 ~ 60 mm



Shaft Dia mm inch		Dimensions																Bearing No.	Mass
		<i>D</i>		<i>C</i>		<i>r</i>		<i>r</i> ₁ (min)		<i>C</i> _c		<i>a</i>		<i>f</i>		<i>D</i> ₂			kg
<i>d</i>		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
20	³ / ₄	47	1.850	16	0.630	1	0.039	0.5	0.020	4	0.157	2.38	0.094	1.07	0.042	52.5	2.067	ERC204-12 ERC204	0.36
25	⁷ / ₈ ¹⁵ / ₁₆	52	2.047	19	0.748	1	0.039	0.5	0.020	5	0.197	2.38	0.094	1.07	0.042	57.7	2.272	ERC205-14 ERC205-15 ERC205	0.47
	1																	ERC205-16	
30	1 ¹ / ₈ 1 ³ / ₁₆ 1 ¹ / ₄	62	2.441	22	0.866	1	0.039	0.5	0.020	5.5	0.217	3.18	0.125	1.65	0.065	67.5	2.657	ERC206-18 ERC206 ERC206-19 ERC206-20	0.57
35	1 ¹ / ₄ 1 ³ / ₈ 1 ⁷ / ₁₆	72	2.835	24	0.945	1.1	0.043	0.5	0.020	5.5	0.217	3.18	0.125	1.65	0.065	78.4	3.087	ERC207-20	0.95
	72	2.835	24	0.945	1.1	0.043	0.5	0.020	5.5	0.217	3.18	0.125	1.65	0.065	78.4	3.087	ERC207-22 ERC207 ERC207-23	0.95	
40	1 ¹ / ₂	80	3.150	28	1.102	1.1	0.043	0.5	0.020	6	0.236	3.18	0.125	1.65	0.065	86.4	3.402	ERC208-24 ERC208	1.2
45	1 ⁵ / ₈ 1 ¹¹ / ₁₆ 1 ³ / ₄	85	3.346	28	1.102	1.1	0.043	0.5	0.020	6	0.236	3.18	0.125	1.65	0.065	91.4	3.598	ERC209-26	1.3
	85	3.346	28	1.102	1.1	0.043	0.5	0.020	6	0.236	3.18	0.125	1.65	0.065	91.4	3.598	ERC209-27 ERC209-28 ERC209	1.3	
50	1 ¹⁵ / ₁₆ 2	90	3.543	28	1.102	1.1	0.043	0.5	0.020	7.5	0.295	3.18	0.125	2.41	0.095	96.3	3.791	ERC210-31 ERC210 ERC210-32	1.6
55	2 2 ³ / ₁₆	100	3.937	30	1.181	1.5	0.059	0.5	0.020	7.5	0.295	3.18	0.125	2.41	0.095	106.3	4.185	ERC211-32 ERC211 ERC211-35	1.8
	2 ¹ / ₄ 2 ⁷ / ₁₆	110	4.331	32	1.260	1.5	0.059	0.5	0.020	7.5	0.295	3.18	0.125	2.41	0.095	116.4	4.583	ERC212-36 ERC212 ERC212-39	2.5

Note : See NC insert series for additional dimensions.



NU Concentric Cap Screw Tightening Torque

Shaft Dia mm inch <i>d</i>	Bearing No.	Collar No.	Cap screw inch mm	Recommended Torque		
				Foot · Lbs.	Inch · Lbs.	N · m
20	³ / ₄	NU204-12 NU204	UCL204B UCL204B	No.8-32UNC M4×0.7	5.5 – 6.0	66 – 73
25	⁷ / ₈	NU205-14	UCL205A	No.8-32UNC		
	¹⁵ / ₁₆	NU205-15	UCL205A	No.8-32UNC		
	1	NU205-16	UCL205A	M4×0.7		
30	¹ / ₈	NU206-18	UCL206A	No.8-32UNC	7.5 – 8.3	90 – 99
	³ / ₁₆	NU206	UCL206A	M4×0.7		
	¹ / ₄	NU206-19	UCL206A	No.8-32UNC		
	¹ / ₄	NU206-20	UCL206A	No.8-32UNC		
35	¹ / ₄	NU207-20	UCL207A	No.10-24UNC	7.5 – 8.3	90 – 99
	³ / ₈	NU207-22	UCL207B	No.10-24UNC		
	⁷ / ₁₆	NU207	UCL207B	M5×0.8		
40	¹ / ₂	NU207-23	UCL207B	No.10-24UNC		
	¹ / ₂	NU208-24	UCL208A	No.10-24UNC	13.0 – 14.3	155 – 172
	¹ / ₂	NU208	UCL208A	M5×0.8		
45	⁵ / ₈	NU209-26	UCL209A	No.10-24UNC		
	¹¹ / ₁₆	NU209-27	UCL209B	No.10-24UNC		
	³ / ₄	NU209-28	UCL209B	No.10-24UNC	30.7 – 33.9	368 – 407
50	¹⁵ / ₁₆	NU209	UCL209B	M5×0.8		
	2	NU210-31	UCL210A	¹ / ₄ -20UNC		
	2	NU210	UCL210A	M6×1	30.7 – 33.9	368 – 407
55	2	NU210-32	UCL210A	¹ / ₄ -20UNC		
	2	NU211-32	UCL211A	¹ / ₄ -20UNC		
	³ / ₁₆	NU211	UCL211B	M6×1	41.6 – 46.0	41.6 – 46.0
60	² / ₄	NU211-35	UCL211B	¹ / ₄ -20UNC		
	² / ₄	NU212-36	UCL212A	⁵ / ₁₆ -18UNC		
	² / ₄	NU212	UCL212B	M8×1.25	30.7 – 33.9	368 – 407
	⁷ / ₁₆	NU212-39	UCL213B	⁵ / ₁₆ -18UNC		

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