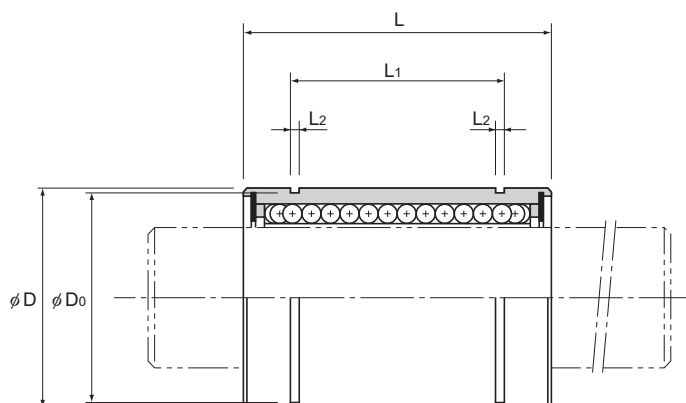


Model LM



Model No.			Ball rows	Main dimensions						
Standard type	Clearance-adjustable type	Open type		Inscribed bore diameter		Outer diameter		Length		
				dr	Tolerance		D	Tolerance High/Precision	L	Tolerance
					High	Precision				
LM 3	—	—	4	3	0 −0.008	0 −0.005	7	0 −0.009	10	0 −0.12
LM 4	—	—	4	4			8		12	
LM 5	—	—	4	5	0 −0.009	0 −0.006	10	0 −0.011	15	0 −0.2
LM 6	LM 6-AJ	—	4	6			12		19	
LM 8S	LM 8S-AJ	—	4	8			15		17	
LM 8	LM 8-AJ	—	4	8			15		24	
LM 10	LM 10-AJ	—	4	10			19		29	
LM 12	LM 12-AJ	—	4	12			21		30	
LM 13	LM 13-AJ	LM 13-OP	4	13			23		32	
LM 16	LM 16-AJ	LM 16-OP	5	16			28		37	
LM 20	LM 20-AJ	LM 20-OP	5	20	0 −0.010	0 −0.007	32	0 −0.016	42	0 −0.3
LM 25	LM 25-AJ	LM 25-OP	6	25			40		59	
LM 30	LM 30-AJ	LM 30-OP	6	30	0 −0.012	0 −0.008	45	0 −0.019	64	0 −0.3
LM 35	LM 35-AJ	LM 35-OP	6	35			52		70	
LM 40	LM 40-AJ	LM 40-OP	6	40			60		80	
LM 50	LM 50-AJ	LM 50-OP	6	50			80		100	
LM 60	LM 60-AJ	LM 60-OP	6	60	0 −0.015	0 −0.009	90	0 −0.022	110	

Notes: Since this model contains a synthetic resin retainer, do not use it at temperature exceeding 80°C.

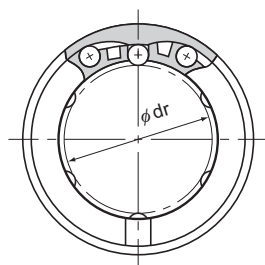
If the ambient temperature exceeds 80°C, use the type equipped with a metal retainer (model LM-GA).

If requiring a type equipped with a seal, indicate it when placing an order.

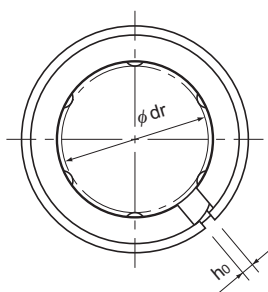
(Example) LM13 UU

——— Seal attached on both ends of the nut

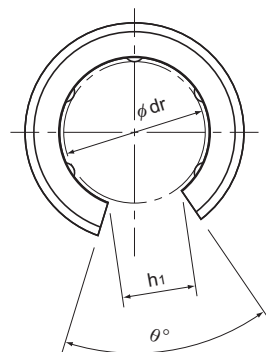
For the clearance-adjustable type (-AJ) and open type (-OP), the inscribed bore diameter tolerance, the outer diameter tolerance, and the eccentricity indicate the values before the division of the nut.



Model LM



Model LM-AJ



Model LM-OP

Unit: mm

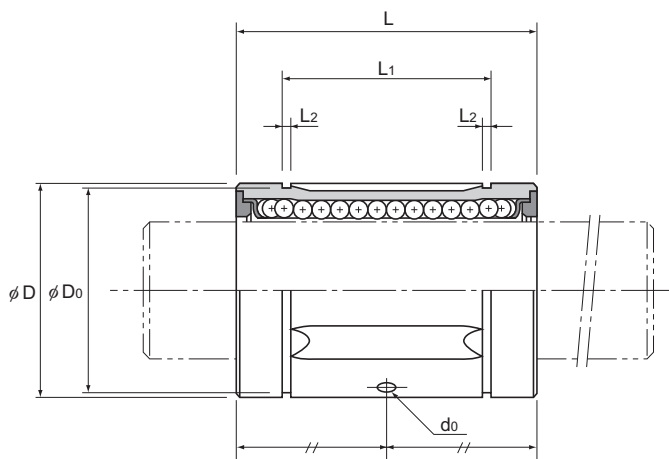
	L ₁	Tolerance	L ₂	D ₀	h ₀	h ₁	θ°	Eccentricity (max) μm		Radial clearance tolerance μm	Basic load rating		
								High	Precision		C N	C ₀ N	Mass g
	—	—	—	—	—	—	—	8	4	-2	88.2	108	1.6
	—	—	—	—	—	—	—	8	4	-3	88.2	127	2.2
	10.2	0 -0.2	1.1	9.6	—	—	—	8	4	-3	167	206	4
	13.5		1.1	11.5	1	—	—	12	8	-5	206	265	8
	11.5		1.1	14.3	1	—	—	12	8	-5	176	225	9.3
	17.5		1.1	14.3	1	—	—	12	8	-5	265	402	13.5
	22		1.3	18	1	—	—	12	8	-5	373	549	25
	23		1.3	20	1.5	—	—	12	8	-5	412	598	28
	23		1.3	22	1.5	9	80	12	8	-7	510	775	38
	26.5		1.6	27	1.5	11	60	12	8	-7	775	1180	78
	30.5		1.6	30.5	1.5	11	60	15	10	-9	863	1370	86
	41	0 -0.3	1.85	38	2	12	50	15	10	-9	980	1570	210
	44.5		1.85	43	2.5	15	50	15	10	-9	1570	2750	221
	49.5		2.1	49	2.5	17	50	20	12	-13	1670	3140	358
	60.5		2.1	57	3	20	50	20	12	-13	2160	4020	557
	74		2.6	76.5	3	25	50	20	12	-13	3820	7940	1418
	85		3.15	86.5	3	30	50	25	17	-16	4710	10000	1733

Notes: When using the Linear Bushing on a single shaft, use two or more units (instead of one unit) on the same shaft to avoid a moment load, and secure a large distance between the units.

If a lubrication hole is required, this can be indicated by appending "OH" to the end of the model number.

For further information, contact THK.

Model LM-GA (Metal Retainer Type)



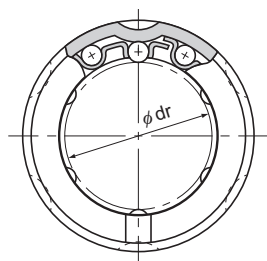
Model No.			Ball rows	Main dimensions						
Standard type	Clearance- adjustable type	Open type		Inscribed bore diameter		Outer diameter		Length		
				dr	Tolerance		D	Tolerance High/Precision	L	Tolerance
					High	Precision				
LM 6GA	—	—	3	6	0 −0.009	0 −0.006	12	0 −0.011	19	0 −0.2
LM 8SGA	—	—	3	8			15		17	
LM 8GA	—	—	3	8			15		24	
LM 10GA	—	—	4	10			19	29		
LM 12GA	LM 12GA-AJ	LM 12GA-OP	4	12			21	30		
LM 13GA	LM 13GA-AJ	LM 13GA-OP	4	13	0 −0.010	0 −0.007	23	−0.013	32	0 −0.3
LM 16GA	LM 16GA-AJ	LM 16GA-OP	4	16			28		37	
LM 20GA	LM 20GA-AJ	LM 20GA-OP	5	20			32		42	
LM 25GA	LM 25GA-AJ	LM 25GA-OP	5	25			40		59	
LM 30GA	LM 30GA-AJ	LM 30GA-OP	6	30			45		64	
LM 35GA	LM 35GA-AJ	LM 35GA-OP	6	35	0 −0.012	0 −0.008	52	0 −0.019	70	0 −0.4
LM 38GA	LM 38GA-AJ	LM 38GA-OP	6	38			57		76	
LM 40GA	LM 40GA-AJ	LM 40GA-OP	6	40			60		80	
LM 50GA	LM 50GA-AJ	LM 50GA-OP	6	50			80		100	
LM 60GA	LM 60GA-AJ	LM 60GA-OP	6	60			0 −0.022	110		
LM 80GA	LM 80GA-AJ	LM 80GA-OP	6	80	−0.015	−0.009	120	140	0 −0.4	
LM 100GA	LM 100GA-AJ	LM 100GA-OP	6	100	0	0	150	0		175
LM 120A	LM 120A-AJ	LM 120A-OP	8	120	−0.020	−0.010	180	−0.025		200

Notes: If requiring a type equipped with a seal, indicate it when placing an order. (seal heat resistance: 80°C.)

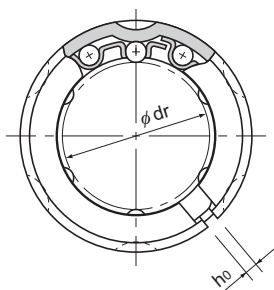
(Example) LM50GA UU

Seal attached on both ends of the nut

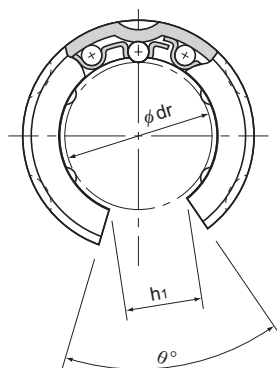
For the clearance-adjustable type (-AJ) and open type (-OP), the inscribed bore diameter tolerance, the outer diameter tolerance, and the eccentricity indicate the values before the division of the nut.



Model LM-GA



Model LM-GA-AJ



Model LM-GA-OP

Unit: mm

	L ₁	Tolerance	L ₂	D ₀	h ₀	h ₁	θ°	Lubrication hole d ₀	Eccentricity (max) μm		Radial clearance tolerance μm	Basic load rating		Mass g
									High	Precision		C N	C ₀ N	
	13.5	0 -0.2	1.1	11.5	—	—	—	—	12	8	-5	206	265	7
	11.5		1.1	14.3	—	—	—	—	12	8	-5	176	225	10
	17.5		1.1	14.3	—	—	—	—	12	8	-5	265	402	14
	22		1.3	18	—	—	—	2	12	8	-5	373	549	27
	23		1.3	20	1.5	7.5	80	2	12	8	-5	412	598	31
	23		1.3	22	1.5	9	80	2	12	8	-7	510	775	41
	26.5		1.6	27	1.5	11	60	2.3	12	8	-7	775	1180	69
	30.5	0 -0.3	1.6	30.5	2	11	60	2.3	15	10	-9	863	1370	92
	41		1.85	38	2	13	60	3	15	10	-9	980	1570	200
	44.5		1.85	43	2.5	15	50	3	15	10	-9	1570	2750	250
	49.5		2.1	49	2.5	17	50	3	20	12	-13	1670	3140	370
	58.5		2.1	54.5	3	18	50	3	20	12	-13	2160	4020	490
	60.5		2.1	57	3	20	50	3	20	12	-13	2160	4020	590
	74		2.6	76.5	3	25	50	4	20	12	-13	3820	7940	1500
	85		3.15	86.5	3	30	50	4	25	17	-16	4710	10000	1850
	105.5		4.15	116	3	40	50	4	25	17	-16	7350	16000	4200
	125.5		4.15	145	3	50	50	4	30	20	-20	14100	34800	8200
	158.6	0 -0.4	4.15	175	4	85	80	5	30	20	-25	16400	40000	15500

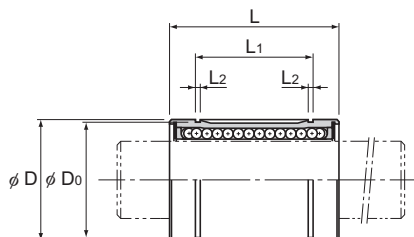
Notes: When using the Linear Bushing on a single shaft, use two or more bushings on the same shaft to minimize a moment load, and secure a large distance between the units.

Models LM10GA to LM120A have lubrication holes as a standard feature.

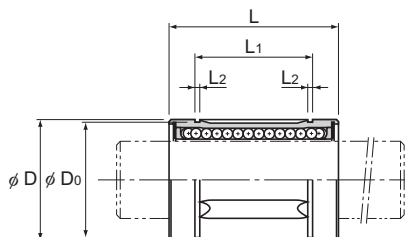
If a lubrication hole is required on Models LM6GA, 8SGA, or 8GA, this can be indicated by appending "OH" to the end of the model number.

For further information, contact THK.

Model LM-MG (Stainless Steel Type)



Model LM-M



Model LM-MG

Model No.			Ball rows	Main dimensions						
Standard type	Clearance-adjustable type	Open type		Inscribed bore diameter		Outer diameter		Length		
				dr	Tolerance		D	Tolerance High/Precision	L	Tolerance
					High	Precision				
LM 3M	—	—	4	3	0 -0.008	0 -0.005	7	0 -0.009	10	0 -0.12
LM 4M	—	—	4	4			8		12	
LM 5M	—	—	4	5			10		15	
* LM 6MG	LM 6MG-AJ	—	4	6	0 -0.009	0 -0.006	12	0 -0.011	19	0 -0.2
* LM 8SMG	LM 8SMG-AJ	—	4	8			15		17	
* LM 8MG	* LM 8MG-AJ	—	4	8			15		24	
* LM 10MG	* LM 10MG-AJ	—	4	10			19	0 -0.013	29	
* LM 12MG	* LM 12MG-AJ	—	4	12			21		30	
* LM 13MG	* LM 13MG-AJ	* LM13MGA-OP	4	13	23	32				
* LM 16MG	* LM 16MG-AJ	* LM16MGA-OP	4	16	28	37	0 -0.016	42	0 -0.3	
* LM 20MG	* LM 20MG-AJ	* LM20MGA-OP	5	20	0 -0.010	0 -0.007		32		42
* LM 25MG	* LM 25MG-AJ	* LM25MGA-OP	5	25				40		59
* LM 30MG	* LM 30MG-AJ	* LM30MGA-OP	6	30	45	64	0 -0.019	70	0 -0.3	
* LM 35MG	* LM 35MG-AJ	* LM35MGA-OP	6	35	0	0		52		0
* LM 40MG	* LM 40MG-AJ	* LM40MGA-OP	6	40	-0.012	-0.008		60		-0.019

Notes: Since this model contains a synthetic resin retainer, do not use it at temperature exceeding 80°C.

If the ambient temperature exceeds 80°C, use the type equipped with a metal retainer and indicate "A" at the end of the model number.

(For those marked with * in the table, metal retainers are available. Only metal retainer is available for open type.)

(Metal retainer types of models LM6MG, 8SMG and 8MG each have 3 rows of balls.)

(Example) LM30MG A

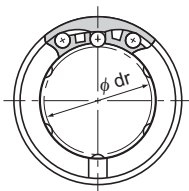
High temperature symbol

If requiring a type equipped with a seal, indicate it when placing an order. (seal heat resistance: 80°C.)

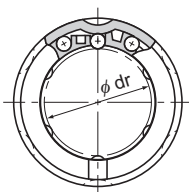
(Example) LM30MG UU

Seal attached on both ends of the nut

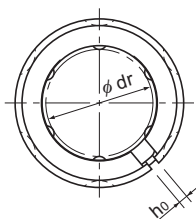
For the clearance-adjustable type (-AJ) and open type (-OP), the inscribed bore diameter tolerance, the outer diameter tolerance, and the eccentricity indicate the values before the division of the nut.



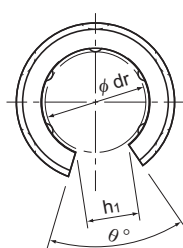
Model LM-M



Model LM-MG



Model LM-MG-AJ



Model LM-MG-OP

Unit: mm

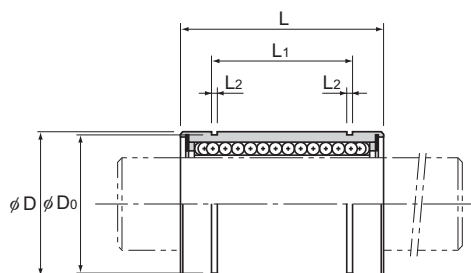
	L ₁	Tolerance	L ₂	D ₀	h ₀	h ₁	θ°	Eccentricity (max) μm		Radial clearance tolerance μm	Basic load rating		
								High	Precision		C N	C ₀ N	Mass g
	—	—	—	—	—	—	—	8	4	-2	88.2	108	1.6
	—	—	—	—	—	—	—	8	4	-3	88.2	127	2.2
10.2			1.1	9.6	—	—	—	8	4	-3	167	206	4
13.5			1.1	11.5	1	—	—	12	8	-5	206	265	6
11.5			1.1	14.3	1	—	—	12	8	-5	176	225	9
17.5			1.1	14.3	1	—	—	12	8	-5	265	402	13
22			1.3	18	1	—	—	12	8	-5	373	549	23
23			1.3	20	1.5	—	—	12	8	-5	412	598	27
23			1.3	22	1.5	9	80	12	8	-7	510	775	35
26.5			1.6	27	1.5	11	80	12	8	-7	775	1180	59
30.5			1.6	30.5	1.5	11	60	15	10	-9	863	1370	79
41			1.85	38	2	12	50	15	10	-9	980	1570	170
44.5			1.85	43	2.5	15	50	15	10	-9	1570	2750	220
49.5			2.1	49	2.5	17	50	20	12	-13	1670	3140	330
60.5			2.1	57	3	20	50	20	12	-13	2160	4020	530

Notes: Since the nut and the balls use stainless steel, these models are highly resistant to corrosion and environment.
If a lubrication hole is required, this can be indicated by appending "OH" to the end of the model number.

For further information, contact THK.

When using the Linear Bushing on a single shaft, use two or more bushings on the same shaft to minimize a moment load, and secure a large distance between the units.

Model LME



Model No.			Ball rows	Main dimensions					
Standard type	Clearance-adjustable type	Open type		Inscribed bore diameter		Outer diameter		Length	
				dr	Tolerance	D	Tolerance	L	Tolerance
LME 5	LME 5-AJ	—	4	5	+0.008 0	12	0	22	0 -0.2
LME 8	LME 8-AJ	—	4	8		16	-0.008	25	
LME 12	LME 12-AJ	—	4	12		22	0	32	
LME 16	LME 16-AJ	LME 16-OP	5	16	+0.009	26	-0.009	36	0 -0.3
LME 20	LME 20-AJ	LME 20-OP	5	20	-0.001	32	0 -0.011	45	
LME 25	LME 25-AJ	LME 25-OP	6	25	+0.011	40		58	
LME 30	LME 30-AJ	LME 30-OP	6	30	-0.001	47	0	68	0 -0.3
LME 40	LME 40-AJ	LME 40-OP	6	40	+0.013 -0.002	62	0	80	
LME 50	LME 50-AJ	LME 50-OP	6	50		75	-0.013	100	
LME 60	LME 60-AJ	LME 60-OP	6	60	+0.016 -0.004	90	0 -0.015	125	0 -0.4
LME 80GA	LME 80GA-AJ	LME 80GA-OP	6	80		120		165	

Notes: Since Linear Bushing models LME60 or smaller models are incorporated with a synthetic resin retainer, do not use them at temperature exceeding 80°C.

If the ambient temperature exceeds 80°C, use the type equipped with a metal retainer and indicate "A" at the end of the model number.

(Example) LME20G A

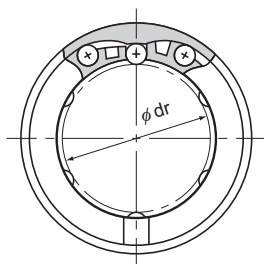
High temperature symbol

If requiring a type equipped with a seal, indicate it when placing an order. (seal heat resistance: 80°C.)

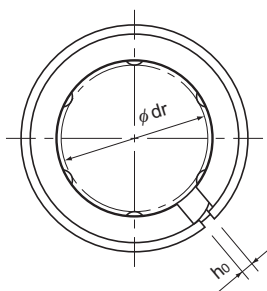
(Example) LME16 UU

Seal attached on both ends of the nut

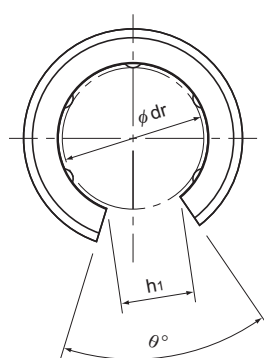
For the clearance-adjustable type (-AJ) and open type (-OP), the inscribed bore diameter tolerance, the outer diameter tolerance, and the eccentricity indicate the values before the division of the nut.



Model LME



Model LME-AJ



Model LME-OP

Unit: mm

								Eccentricity (max)	Radial clearance tolerance	Basic load rating		Mass g
	L_1	Tolerance	L_2	D_0	h_0	h_1	θ°	μm	μm	C N	C_0 N	
	14.5	0 -0.2	1.1	11.5	1	—	—	12	-5	206	265	11.4
	16.5		1.1	15.2	1	—	—	12	-5	265	402	18.5
	22.9		1.3	21	1.5	7.5	78	12	-7	510	775	37
	24.9		1.3	24.9	1.5	10	78	12	-7	775	1180	52
	31.5		1.6	30.3	2	10	60	15	-9	863	1370	89
	44.1	0 -0.3	1.85	37.5	2	12.5	60	15	-9	980	1570	203
	52.1		1.85	44.5	2	12.5	50	15	-9	1570	2750	306
	60.6		2.15	59	3	16.8	50	17	-13	2160	4020	673
	77.6		2.65	72	3	21	50	17	-13	3820	7940	1025
	101.7	0 -0.4	3.15	86.5	3	27.2	54	20	-16	4710	10000	1914
	133.7		4.15	116	3	36.3	54	20	-16	7350	16000	4800

Notes: If a metal retainer is used, the Linear Bushing has the shape as shown below.

When using the Linear Bushing on a single shaft, use two or more units (instead of one unit) on the same shaft to avoid a moment load, and secure a large distance between the units.

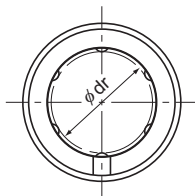
If a lubrication hole is required, this can be indicated by appending "OH" to the end of the model number.

For further information, contact THK.



Model LME-GA

Model LM-L



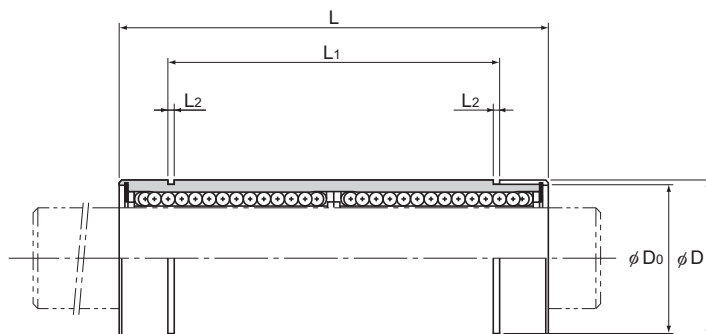
Model LM-L

Model No.	Ball rows	Main dimensions					
		Inscribed bore diameter		Outer diameter		Length	
		dr	Tolerance	D	Tolerance	L	Tolerance
LM 3L	4	3	0 -0.010	7	0 -0.013	19	0 -0.3
LM 4L	4	4		8		23	
LM 5L	4	5		10		29	
LM 6L	4	6		12		35	
LM 8L	4	8		15	0 -0.016	45	
LM 10L	4	10		19		55	
LM 12L	4	12		21		57	
LM 13L	4	13		23		61	
LM 16L	5	16	0 -0.012	28	0 -0.019	70	0 -0.4
LM 20L	5	20		32		80	
LM 25L	6	25		40		112	
LM 30L	6	30		45	0 -0.022	123	
LM 35L	6	35	0 -0.015	52		135	
LM 40L	6	40		60		154	
LM 50L	6	50		80		192	
LM 60L	6	60	0 -0.020	90	0 -0.025	211	

Notes: Since this model contains a synthetic resin retainer, do not use it at temperature exceeding 80°C.
If requiring a type equipped with a seal, indicate it when placing an order.

(Example) LM13L UU

└─── Seal attached on both ends of the nut



Unit: mm

	L ₁	Tolerance	L ₂	D ₀	Eccentricity (max) μm	Radial clearance tolerance μm	Basic load rating		Mass g
							C N	C ₀ N	
	—	0 -0.3	—	—	10	-2	139	216	3
	—		—	—	10	-3	139	254	4
	20		1.1	9.6	10	-3	263	412	10
	27		1.1	11.5	15	-5	324	529	15
	35		1.1	14.3	15	-5	431	784	26
	44		1.3	18	15	-5	588	1100	48
	46		1.3	20	15	-5	657	1200	56
	46		1.3	22	15	-7	814	1570	75
	53		1.6	27	15	-7	1230	2350	147
	61		1.6	30.5	20	-9	1400	2750	163
	82	0 -0.4	1.85	38	20	-9	1560	3140	397
	89		1.85	43	20	-9	2490	5490	434
	99		2.1	49	25	-13	2650	6270	696
	121		2.1	57	25	-13	3430	8040	1087
	148		2.6	76.5	25	-13	6080	15900	2770
	170		3.15	86.5	25	-16	7650	20000	3340

Notes: A stainless steel type (LM3ML to 20ML) is also available. Contact THK for details.

If a lubrication hole is required, this can be indicated by appending "OH" to the end of the model number.
For further information, contact THK.