Catalogo Ghiere di Precisione
Catalog for Precision Nuts

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K.S.B.®
Bearings and Components

Introduzione

Le ghiere di bloccaggio K.S.B. riportate nel presente catalogo sono da considerarsi come componenti meccanici di precisone destinate a macchine ed impianti industriali ove si richiede un particolare serraggio preciso.
Tali ghiere vengono utilizzate ovunque esistano esigenze di bloccaggi di precisione di cuscinetti o particolari meccanici che richiedano tolleranze di posizionamento ristrette, robustezza e rigidità, assicurando il tutto tramite un serraggio dell'accoppiamento della filettatura albero-ghiera.

Caratteristiche e Vantaggi

Le caratteristiche principali che distinguono le ghiere K.S.B. illustrate in questo catalogo dalle tradizionali ghiere di fissaggio sono le seguenti:
- Bloccaggio preciso e sicuro in posizione assiale per il montaggio dei cuscinetti a rotolamento.
- Coppia di sbloccaggio superiore a quella ottenuta con altre tecniche di bloccaggio.
- Risparmio di tempo sia per la semplificazione del disegno, sia per la realizzazione degli alberi e dei vari particolari in generale.
- Eliminazione sugli alberi delle fresature di cave per rondelle di fissaggio.
- Abolizione delle rondelle di fissaggio e dei rischi di danneggiamento degli anelli di tenuta.
- Serraggio e bloccaggio delle ghiere di regolazione senza perdita di precisione.
- Le ghiere di precisione sono facili da montare e smontare e sono riutilizzabili più volte senza perdita di precisione.
- Impiego in condizioni difficili (temperature,vibrazioni, etc..)

Caratteristiche Tecniche

Il materiale impiegato nella costruzione delle ghiere di precisione è un'acciaio al carbonio non legato, non temprato nè brunito. La durezza media è di HRC 22-25.
La precisione di perpendicolarità tra la superficie d'appoggio della ghiera ed il filetto è di 0,006 mm.
La precisione del filetto è del tipo 4H

Sistema di Bloccaggio

Una parte della sezione filettata delle ghiere costituisce la linguetta di bloccaggio. Il bloccaggio, determinato dai grani di serraggio,spinge con un carico elevato la superficie filettata della linguetta contro il filetto corrispondente dell'albero.
Lo sviluppo della superficie dei filetti in presa sull'albero incrementa l'effetto di serraggio,assicurando un bloccaggio estremamente efficace,rendendo le ghiere di precisione praticamente non sbloccabili.

Introduction

The locknuts K.S.B. contained in this catalogue are to be considered as precision mechanical components designed for use on industrial machinery and equipment where you require a particular precision locking.
These locknuts are employed in all applications which require precision fastening of bearings or mechanical components with tight positioning tolerances, high strength and rigidity,assured through clamping of the threaded coupling between the shaft and locknut.

Characteristics and Advantages

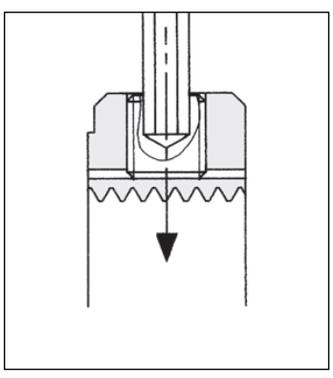
The main feature that distinguish the locknuts K.S.B. illustrated in this catalogue from traditional locking unit are as follows:
- Precise locking and secure in an axial position for the mounting of rolling bearings.
- Unlocking torque higher than that obtained with other locking techniques.
- Save time and for the simplification of the design,both for the realization of the trees and the various details in general.
- Elimination of the trees milling slots for lock washers.
- Abolition of lock washers and risk of damage to the seals.
- Clamping and locking of the adjusting rings without loss of accuracy.
- The precision locknuts are easy to assemble and disassemble and can be reused severl times without loss of accuracy.
Operation in difficult conditions (temperature,vibration, etc...)

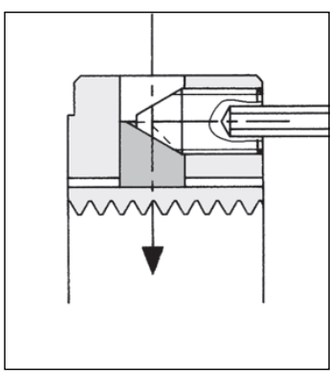
Technical Specifications

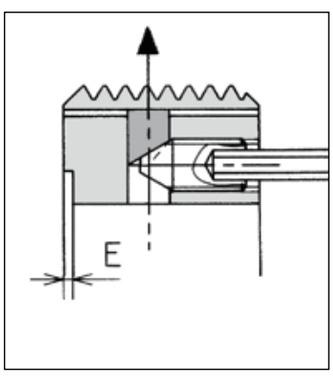
The material used in the construction of precision locknuts is a steel unalloyed carbon, not hardened or burnished. the average hardness is HRC 22-25.
The accuracy of perpendicularity between the bearing surface of the noìut and the thread is 0,006 mm.
The accuracy of the thread is of the type 4H.

Locking System

A pat of the threaded section of the rings constitutes the locking tab. The lock,determined by the grain clamping,with a high load pushes the threaded surface of the tongue against the corresponding thread of the shaft.Development of the surface of the threads in socket on the shaft increases the tightening effect, ensuring an extremely effective locking, making precision locknuts virtually no unlockable.







Coppia di Sbloccaggio
Numerosi parametri influenzano la coppia di sbloccaggio:
- Precisione dell'accoppiamento vite/ghiera
- Coppia di avvitamento dei grani,che determina il bloccaggio sul filetto dell'albero.
- La natura dei materiali e il loro stato superficiale,i trattamenti e gli eventuali rivestimenti.
- Le condizioni d'impiego (temperature,vibrazioni,atmosfere, etc...)
- La rigidità dell'assieme.

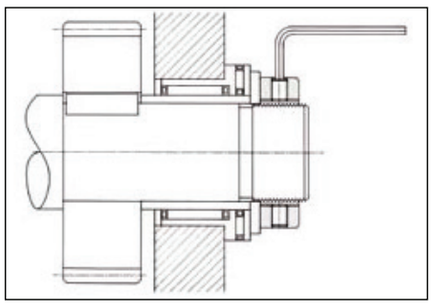
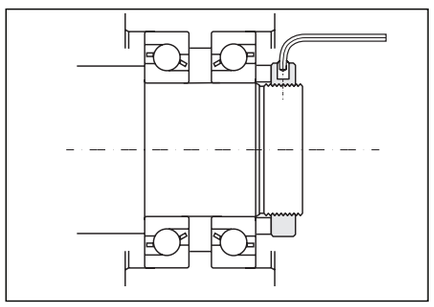
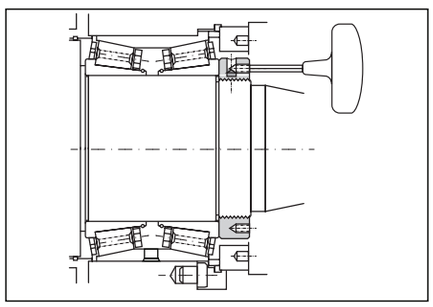
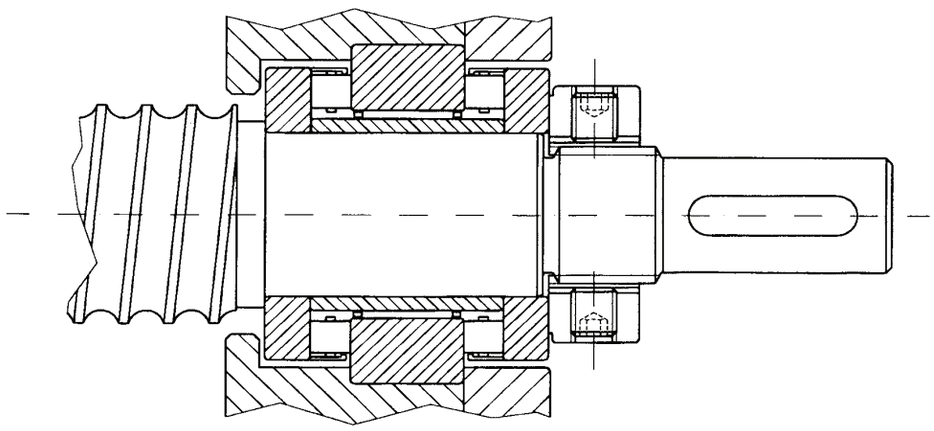
I valori della coppia di sbloccaggio e del carico assiale, riportati su questo catalogo,sono forniti a titolo indicativo e non implicano nessuna responsabilità.

Montaggio
Il montaggio mediante avvitamento delle ghiere di precisione si effettua facilmente per mezzo di chiavi a nasello standard (DIN 1810) che si adattino alle cave ricavate sul diametro esterno delle ghiere.
Si possono anche utilizzare i fori di serraggio situati sulla faccia posteriore della ghiera, utilizzando una chiave apposita.
Quando la ghiera è posizionata sull'albero,per bloccarla è sufficiente avvitare i grani di bloccaggio delle linguette,situati sul diametro esterno o sulla faccia posteriore della ghiera.
Per le ghiere provviste di 2 linguette o con più grani di bloccaggio i grani devono essere avvitati alternativamente e progressivamente per ottenere un bloccaggio efficace.
Si consiglia l'impiego di una chiave dinamometrica per ottenere in modo certo le coppie di serraggio appropriate.Tuttavia anche con una chiave a maschio esagonale (brugola) si può ottenre un bloccaggio efficace.
Lo smontaggio della ghiera è molto semplice, è sufficiente allentare i grani di bloccaggio delle linguette e svitare la ghiera.

Pair of Unlocking
Numerous parameters affect the unlocking torque:
- Accuracy of the coupling bolt/nuts.
- Screw torque of the grains,which determines the locking on the shaft thread.
- The nature of the materials and their surface conditions,treatments and coatings,if any.
- The operating conditions (temperature,vibration,atmosphere, etc...)
- The rigidity of the assembly.

The values of unlocking torque and axial load, shown in this catalog are for information only and do not imply any liability

Mounting
The assembly by scewing the precision locknuts can be easily made by means of standard lug wrench (DIN 1810) that are adapted to caves dug on the outer diameter of the rings. It can also use the clamping holes located on the rear face of the .ring, using a wrench. When the ring is positioned on the shaft to lock it is sufficient to screw the set screws of the tabs,located on the outer diameter of the ring or on the rear face. for nuts provided with two tabs or more locking beads grains must be tightened alternately and progressively t obtain an effective locking.
We recommend the use of a torque wrench to get them some tightening torques appropriate.
However even with a hexagon wrench can obtain an effective block.
The removal of th ring is very simple, just loosen the set screws of the tabs and unscrew the ring.

Campi di Applicazione

Le ghiere di bloccaggio di precisione possono venire applicate su qualunque tipo di macchina ed impianto industriale dove necessitino le seguenti esigenze:

- Trasferimento di elevati carichi assiali
- Richiesta di elevata precisione di planarità
- Bloccaggio di elementi meccanici di sicurezza
- Trasmissioni di movimenti e di potenza
- Ripresa dei giochi

Alcune delle più classiche applicazioni possono essere così raggruppate:

- Bloccaggio e pre-carico di cuscinetti di supporto di viti a ricircolo di sfere
- Montaggio di cuscinetti di mandrini di precisione
- Sistemi soggetti a vibrazione in genere o con frequenti inversioni del senso di rotazione
- Sistemi soggetti a sbalzi termici o in ambienti ove persistano temperature elevate

Alcuni esempi:

- Macchine utensili
- Macchine tessili
- Macchine da stampa
- Macchine speciali
- Trasmissioni
- Motori
- Riduttori
- Costruzioni automobilistiche
- Attrezzature di trasporto
- Industria petrolifera
- Industria chimica
- Agro alimentare
- Aeronautica
- Marina
- Impianti eolici

Fields of Application

The precision locknuts can be applied on any type of machine and industrial plant where require the following requirements:

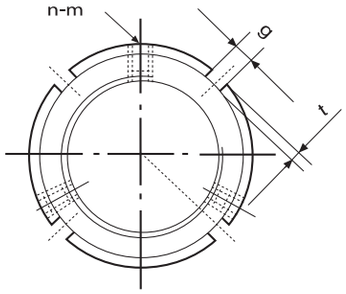
- Transfer of high axial loads
- Request for high-precion flatness
- Retaining mechanical safety
- Movmentctransmission and power
- Shooting tollerance

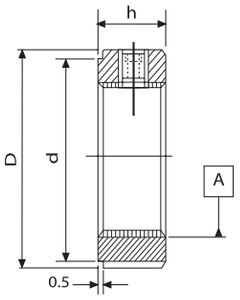
Some of the more classic applications can be grouped as follows:

- Locking and pre-load support bearings for ball screws
- Mounting of bearings of precision mandrels
- Systems subject to vibration in general or with frequent reversals of direction of rotation
- Systems subject to sudden changes in temperature of environments where high temperatures persist.

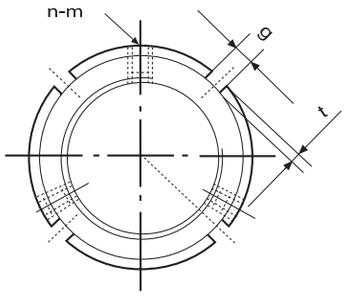
A few examples:

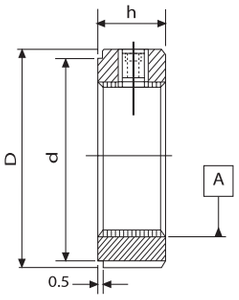
- Machine tools
- Textile machinery
- Printing machinery
- Special machinery
- Transmissions
- Engines
- Gears
- Construction automotive
- Transport equipment
- Oil industry
- Chemical industry
- Food industry
- Aeronautics
- Sea industry
- Wind power plants





Tipo e Passo Type & Pitch	Dimensioni - Dimensions						Coppia Torque (NM)	Carico Assiale Axial Load (KN)
	D (mm)	h (mm)	g (mm)	t (mm)	d (mm)	n-M		
KIR M6x0,5	16	8	3	2.0	11	2-M4	3.5	17
KIR M8x0,75	16	8	3	2.0	11	2-M4	3.5	23
KIR M10x0,75	18	8	3	2.0	13	2-M4	3.5	31
KIR M10x1,0	18	8	3	2.0	13	2-M4	3.5	31
KIR M12x1,0	20	8	3	2.0	16	2-M4	3.5	38
KIR M12x1,25	20	8	3	2.0	16	2-M4	3.5	38
KIR M14x1,5	25	8	3	2.0	21	2-M4	3.5	50
KIR M15x1,0	25	8	3	2.0	21	2-M4	3.5	50
KIR M16x1,5	28	10	4	2.0	23	2-M5	4.5	57
KIR M17x1,0	28	10	4	2.0	23	2-M5	4.5	57
KIR M18x1,5	30	10	4	2.0	25	2-M5	4.5	62
KIR M20x1,0	32	10	4	2.0	27	3-M5	4.5	69
KIR M20x1,5	32	10	4	2.0	27	3-M5	4.5	69
KIR M22x1,5	35	10	4	2.0	30	3-M5	4.5	81
KIR M24x1,5	38	12	5	2.0	33	3-M6	8.0	90
KIR M25x1,5	38	12	5	2.0	33	3-M6	8.0	90
KIR M27x1,5	42	12	5	2.0	37	3-M6	8.0	98
KIR M30x1,0	45	12	5	2.0	40	3-M6	8.0	112
KIR M30x1,5	45	12	5	2.0	40	3-M6	8.0	112
KIR M33x1,5	52	12	5	2.0	45	3-M6	8.0	134
KIR M35x1,5	52	12	5	2.0	47	3-M6	8.0	134
KIR M36x1,5	55	14	6	2.5	49	3-M6	8.0	143
KIR M39x1,5	58	14	6	2.5	52	3-M6	8.0	157
KIR M40x1,5	58	14	6	2.5	52	3-M6	8.0	157





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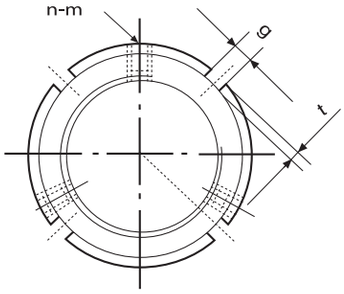
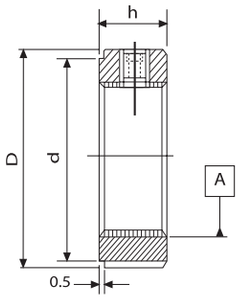
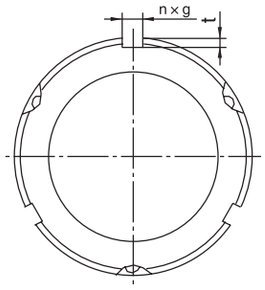
	D (mm)	h (mm)	g (mm)	t (mm)	d (mm)	n-M		
KIR M42x1,5	62	14	6	2.5	56	3-M6	8.0	176
KIR M45x1,5	65	14	6	2.5	59	3-M6	8.0	181
KIR M48x1,5	68	14	6	2.5	62	3-M6	8.0	193
KIR M50x1,5	70	14	6	2.5	64	3-M6	8.0	205
KIR M52x1,5	73	16	7	3.0	66	3-M8	18.0	213
KIR M55x2,0	75	16	7	3.0	68	3-M8	18.0	229
KIR M56x2,0	77	16	7	3.0	70	3-M8	18.0	240
KIR M60x1,5	80	16	7	3.0	73	3-M8	18.0	255
KIR M60x2,0	80	16	7	3.0	73	3-M8	18.0	255
KIR M64x2,0	85	16	7	3.0	78	3-M8	18.0	280
KIR M65x2,0	85	16	7	3.0	78	3-M8	18.0	280
KIR M68x2,0	92	18	8	3.5	84	3-M8	18.0	305
KIR M70x2,0	92	18	8	3.5	84	3-M8	18.0	305
KIR M72x2,0	95	18	8	3.5	86	3-M8	18.0	320
KIR M75x2,0	98	18	8	3.5	90	3-M8	18.0	331
KIR M76x2,0	100	18	8	3.5	92	3-M8	18.0	342
KIR M80x2,0	105	18	8	3.5	96	3-M8	18.0	355
KIR M85x2,0	110	18	8	3.5	102	3-M8	18.0	385
KIR M90x2,0	120	20	10	4.0	106	3-M8	18.0	410
KIR M95x2,0	125	20	10	4.0	112	3-M8	18.0	450
KIR M100x2,0	130	20	10	4.0	117	3-M8	18.0	465
KIR M105x2,0	140	22	12	5.0	124	3-M8	18.0	495
KIR M110x2,0	145	22	12	5.0	130	3-M8	18.0	520
KIR M115x2,0	150	22	12	5.0	135	3-M8	18.0	550

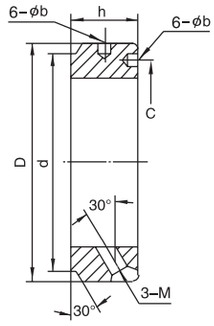




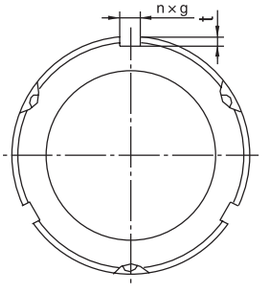
Tipo e Passo Type & Pitch	Dimensioni - Dimensions						Coppia Torque (NM)	Carico Assiale Axial Load (KN)
	D (mm)	h (mm)	g (mm)	t (mm)	d (mm)	n-M		
KIR M120x2,0	155	24	12	5.0	140	3-M8	18.0	580
KIR M125x2,0	160	24	12	5.0	145	3-M8	18.0	610
KIR M130x2,0	165	24	12	5.0	150	3-M8	18.0	630
KIR M135x2,0	175	26	14	6.0	158	3-M10	35.0	670
KIR M140x2,0	180	26	14	6.0	165	3-M10	35.0	690
KIR M145x2,0	190	26	14	6.0	170	3-M10	35.0	720
KIR M150x2,0	195	26	14	6.0	180	3-M10	35.0	750
KIR M155x3,0	200	28	16	7.0	178	3-M10	35.0	830
KIR M158x3,0	200	28	16	7.0	178	3-M10	35.0	830
KIR M160x3,0	210	28	16	7.0	188	3-M10	35.0	980
KIR M165x3,0	210	28	16	7.0	188	3-M10	35.0	980
KIR M170x3,0	220	28	16	7.0	198	3-M10	35.0	1130
KIR M180x3,0	230	30	18	8.0	205	3-M12	60.0	1300
KIR M190x3,0	240	30	18	8.0	212	3-M12	60.0	1470
KIR M200x3,0	250	32	18	8.0	223	3-M12	60.0	1600
KIR M210x4,0	270	34	18	8.0	238	3-M12	60.0	2000
KIR M220x3,0	270	34	18	8.0	245	3-M12	60.0	2000
KIR M220x4,0	270	34	18	8.0	245	3-M12	60.0	2000
KIR M240x3,0	290	34	18	8.0	265	3-M12	60.0	2200
KIR M260x3,0	310	36	18	8.0	285	3-M12	60.0	2400
KIR M260x4,0	310	36	18	8.0	285	3-M12	60.0	2400
KIR M280x4,0	330	36	18	8.0	305	3-M12	60.0	2650
KIR M300x4,0	350	36	18	8.0	325	3-M12	60.0	2800

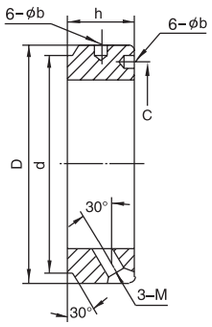
- Per filetto sinistro inserire "L" (esempio KIR M210X4,0L) - For left thread nuts insert "L" (example KIR M210x4,0L)



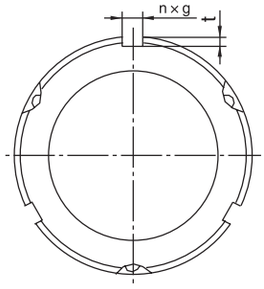


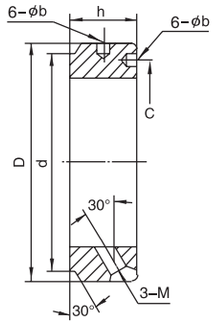
Tipo e Passo Type & Pitch	Dimensioni - Dimensions							Coppia Torque (NM)	Carico Assiale Axial Load (KN)
	D (mm)	h (mm)	d (mm)	n xg/b	t (mm)	c (mm)	M		
KIF M12x1,0	30	14	25	3x4/-	2.0	-	M5	4.5	40
KIF M14x1,0	30	14	25	3x4/-	2.0	-	M5	4.5	60
KIF M14x1,5	30	14	25	3x4/-	2.0	-	M5	4.5	60
KIF M15x1,0	30	14	25	3x4/-	2.0	-	M5	4.5	60
KIF M16x1,5	30	14	25	3x4/-	2.0	-	M5	4.5	60
KIF M17x1,0	32	16	27	3x4/-	2.0	-	M5	4.5	80
KIF M18x1,5	32	16	27	3x4/-	2.0	-	M5	4.5	80
KIF M20x1,0	38	16	33	3x4/-	2.0	-	M6	4.5	110
KIF M20x1,5	38	16	33	3x4/-	2.0	-	M6	8.0	110
KIF M22x1,5	38	16	33	3x4/-	2.0	-	M6	8.0	130
KIF M24x1,5	38	18	33	3x5/-	2.0	-	M6	8.0	130
KIF M25x1,5	38	18	33	3x5/-	2.0	-	M6	8.0	130
KIF M27x1,5	40	18	35	3x5/-	2.0	-	M6	8.0	140
KIF M30x1,5	45	18	40	3x5/-	2.0	-	M6	8.0	150
KIF M33x1,5	50	18	45	3x5/-	2.0	-	M6	8.0	160
KIF M35x1,5	52	18	47	3X5/-	2.0	-	M8	18.0	170
KIF M36x1,5	52	18	47	3x5/-	2.0	-	M8	18.0	170
KIF M39x1,5	58	20	52	3x6/-	2.5	-	M8	18.0	210
KIF M40x1,5	58	20	52	3x6/-	2.5	-	M8	18.0	210
KIF M42x1,5	62	20	56	3x6/-	2.5	-	M8	18.0	220
KIF M45x1,5	65	20	59	3x6/-	2.5	-	M8	18.0	240
KIF M48x1,5	70	20	64	3x6/-	2.5	-	M8	18.0	260
KIF M50x1,5	70	20	64	3x6/-	2.5	-	M8	18.0	260
KIF M52x1,5	73	22	66	3x7/d.6	3.0	63	M8	18.0	320





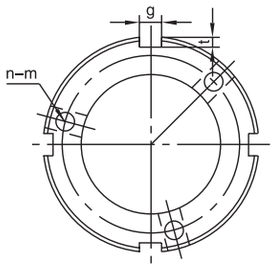
Tipo e Passo Type & Pitch	Dimensioni - Dimensions							Coppia Torque (NM)	Carico Assiale Axial Load (KN)
	D (mm)	h (mm)	d (mm)	n xg/b	t (mm)	c (mm)	M		
KIF M55x1,5	75	22	68	3x7/d.6	3.0	65	M8	18.0	340
KIF M55x2,0	75	22	68	3x7/d.6	3.0	65	M8	18.0	340
KIF M56x1,5	75	22	68	3x7/d.6	3.0	65	M8	18.0	340
KIF M56x2,0	75	22	68	3x7/d.6	3.0	65	M8	18.0	340
KIF M60x2,0	80	22	73	3x7/d.6	3.0	70	M8	18.0	360
KIF M64x1,5	85	22	78	3x7/d.6	3.0	75	M8	18.0	400
KIF M64x2,0	85	22	78	3x7/d:6	3.0	75	M8	18.0	400
KIF M65x2,0	85	22	78	3x7/d.6	3.0	75	M8	18.0	400
KIF M68x1,5	92	24	84	3x8/d.6	3.5	81	M8	18.0	470
KIF M68x2,0	92	24	84	3x8/d.6	3.5	81	M8	18.0	470
KIF M70x2,0	92	24	86	3x8/d.6	3.5	81	M8	18.0	470
KIF M72x1,5	94	24	86	3x8/d.6	3.5	83	M8	18.0	490
KIF M72x2,5	94	24	86	3x8/d.6	3.5	83	M8	18.0	490
KIF M75x2,0	98	24	90	3x8/d.6	3.5	87	M8	18.0	500
KIF M76x2,0	98	24	90	3x8/d.6	3.5	87	M8	18.0	500
KIF M80x2,0	105	24	96	3x8/d.7	3.5	93	M8	18.0	520
KIF M85x2,0	110	24	102	6x8/d.7	3.5	98	M8	18.0	540
KIF M90x2,0	120	26	108	6x10/d.7	4.0	105	M8	18.0	610
KIF M95x2,0	125	26	113	6x10/d.7	4.0	110	M8	18.0	640
KIF M100x2,0	130	26	118	6x10/d.7	4.0	115	M8	18.0	660
KIF M105x2,0	140	28	125	6x10/d.7	4.0	123	M10	35.0	700
KIF M110x2,0	145	28	132	6x10/d.7	4.0	128	M10	35.0	770
KIF M115x2,0	150	28	137	6x10/d.7	4.0	133	M10	35.0	820
KIF M120x2,0	155	30	142	6x12/d.7	5.0	138	M10	35.0	890

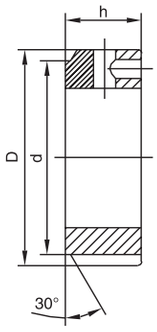




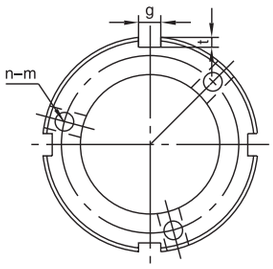
Tipo e Passo Type & Pitch	Dimensioni - Dimensions							Coppia Torque (NM)	Carico Assiale Axial Load (KN)
	D (mm)	h (mm)	d (mm)	n xg/b	t (mm)	c (mm)	M		
KIF M125x2,0	160	30	147	6x12/d.7	5.0	143	M10	35.0	920
KIF M130x2,0	165	30	152	6x12/7d.7	5.0	148	M10	35.0	950
KIF M135x2,0	175	32	160	6x12/d:7	5.0	155	M10	35.0	1000
KIF M140x2,0	180	32	165	6x12/d.7	5.0	160	M10	35.0	1080
KIF M145x2,0	190	32	175	6x12/d.7	5.0	168	M10	35.0	1130
KIF M150x2,0	195	32	180	6x12/d.7	5.0	173	M10	35.0	1200
KIF M155x3,0	200	34	180	6x12/d.8	6.0	178	M10	35.0	1280
KIF M160x3,0	210	34	190	6x14/d.8	6.0	185	M10	35.0	1360
KIF M165x3,0	210	34	190	6x14/d.8	6.0	188	M10	35.0	1400
KIF M170x3,0	220	34	200	6x14/d.8	6.0	195	M10	35.0	1430
KIF M172x3,0	220	34	200	6x14/d.8	7.0	195	M10	35.0	1430
KIF M180x3,0	230	36	205	6x14/d.8	7.0	205	M12	60.0	1600
KIF M190x3,0	240	36	215	6x16/d.8	7.0	215	M12	60.0	1670
KIF M200x3,0	250	38	225	6x16/d.8	7.0	225	M12	60.0	1850
KIF M210x4,0	270	38	238	6x16/d.8	8.0	245	M14	85.0	2200
KIF M220x3,0	270	38	245	6x16/d.8	8.0	245	M14	85.0	2200
KIF M220x4,0	270	38	245	6x16/d.8	8.0	245	M14	85.0	2200
KIF M240x3,0	290	38	265	6x16/d.8	8.0	265	M14	85.0	2300
KIF M260x3,0	310	38	285	6x16/d.8	8.0	285	M14	85.0	2500
KIF M260x4,0	310	38	285	6x16/d.8	8.0	285	M14	85.0	2500
KIF M280x4,0	330	40	305	6x16/d.8	8.0	305	M14	85.0	2850
KIF M300x4,0	350	40	325	6x16/d.8	8.0	325	M14	85.0	3100

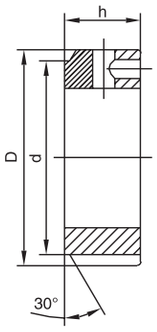
- Per filetto sinistro inserire "L" (esempio KIF M210X4,0L) - For left thread nuts insert "L" (example KIF M210x4,0L)



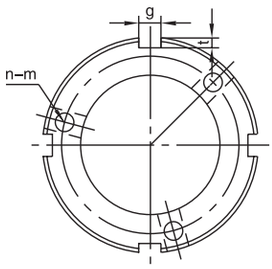


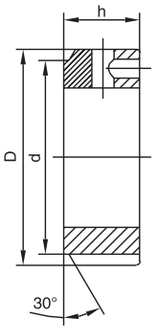
Tipo e Passo Type & Pitch	Dimensioni - Dimensions						Coppia Torque (NM)	Carico Assiale Axial Load (KN)
	D (mm)	h (mm)	g (mm)	t (mm)	d (mm)	n-M		
KIA M12x1,0	30	14	4	2.0	25	2-M4	3.5	40
KIA M14x1,0	30	14	4	2.0	25	2-M4	3.5	60
KIA M15x1,0	30	14	4	2.0	25	2-M4	3.5	60
KIA M16x1,5	30	14	4	2.0	25	2-M4	3.5	60
KIA M17x1,0	32	16	4	2.0	27	2-M4	3.5	80
KIA M18x1,5	32	16	4	2.0	27	2-M4	3.5	80
KIA M20x1,0	38	16	4	2.0	33	3-M4	4.5	110
KIA M20x1,5	38	16	4	2.0	33	3-M4	4.5	110
KIA M22x1,5	38	16	4	2.0	33	3-M4	4.5	130
KIA M24x1,5	38	18	5	2.0	33	3-M4	4.5	130
KIA M25x1,5	38	18	5	2.0	33	3-M4	4.5	130
KIA M27x1,5	40	18	5	2.0	35	3-M4	4.5	140
KIA M30x1,5	45	18	5	2.0	40	3-M4	4.5	150
KIA M32x1,5	50	18	5	2.0	45	3-M4	4.5	160
KIA M33x1,5	50	18	5	2.0	45	3-M4	4.5	160
KIA M35x1,5	52	18	5	2.0	47	3-M6	8.0	170
KIA M36x1,5	52	18	5	2.0	47	3-M6	8.0	170
KIA M39x1,5	58	20	6	2.5	52	3-M6	8.0	210
KIA M40x1,5	58	20	6	2.5	52	3-M6	8.0	210
KIA M42x1,5	62	20	6	2.5	56	3-M6	8.0	220
KIA M45x1,5	65	20	6	2.5	59	3-M6	8.0	240
KIA M48x1,5	70	20	6	2.5	64	3-M6	8.0	260
KIA M50x1,5	70	20	6	2.5	64	3-M6	8.0	260
KIA M52x1,5	73	22	7	3.0	66	3-M6	8.0	320





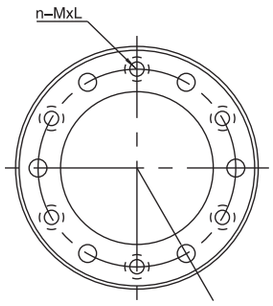
Tipo e Passo Type & Pitch	Dimensioni - Dimensions						Coppia Torque (NM)	Carico Assiale Axial Load (KN)
	D (mm)	h (mm)	g (mm)	t (mm)	d (mm)	n-M		
KIA M55x1,5	75	22	7	3.0	68	3-M6	8.0	340
KIA M55x2,0	75	22	7	3.0	68	3-M6	8.0	340
KIA M56x1,5	75	22	7	3.0	68	3-M6	8.0	340
KIA M56x2,0	75	22	7	3.0	68	3-M6	8.0	340
KIA M60x2,0	80	22	7	3.0	73	3-M6	8.0	360
KIA M64x1,5	85	22	7	3.0	78	3-M6	8.0	400
KIA M64x2,0	85	22	7	3.0	78	3-M6	8.0	400
KIA M65x2,0	85	22	7	3.0	78	3-M6	8.0	400
KIA M68x2,0	92	24	8	3.5	84	3-M6	8.0	470
KIA M70x2,0	92	24	8	3.5	84	3-M6	8.0	470
KIA M72x2,0	94	24	8	3.5	86	3-M6	8.0	490
KIA M75x2,0	98	24	8	3.5	90	3-M6	8.0	500
KIA M76x2,0	98	24	8	3.5	90	3-M6	8.0	500
KIA M80x2,0	105	24	8	3.5	96	3-M8	18.0	520
KIA M85x2,0	110	24	8	3.5	102	3-M8	18.0	540
KIA M90x2,0	120	26	10	4.0	108	3-M8	18.0	610
KIA M95x2,0	125	26	10	4.0	113	3-M8	18.0	640
KIA M100x2,0	130	26	10	4.0	118	3-M8	18.0	660
KIA M105x2,0	140	28	12	5.0	125	3-M10	35.0	700
KIA M110x2,0	145	28	12	5.0	132	3-M10	35.0	770
KIA M115x2,0	150	28	12	5.0	137	3-M10	35.0	820
KIA M120x2,0	155	30	12	5.0	142	3-M10	35.0	890
KIA M125x2,0	160	30	12	5.0	147	3-M10	35.0	920
KIA M130x2,0	165	30	12	5.0	152	3-M10	35.0	950

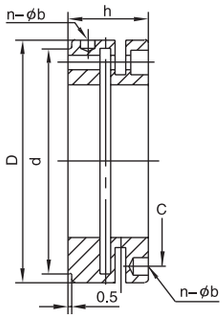




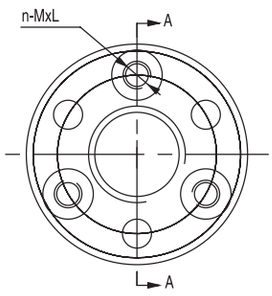
Tipo e Passo Type & Pitch	Dimensioni - Dimensions						Coppia Torque (NM)	Carico Assiale Axial Load (KN)
	D (mm)	h (mm)	g (mm)	t (mm)	d (mm)	n-M		
KIA M135x2,0	175	32	14	6.0	160	3-M12	60.0	1000
KIA M140x2,0	180	32	14	6.0	165	3-M12	60.0	1080
KIA M145x2,0	190	32	14	6.0	175	3-M12	60.0	1130
KIA M150x2,0	195	32	14	6.0	180	3-M12	60.0	1200
KIA M155x3,0	200	34	16	7.0	180	3-M12	60.0	1280
KIA M160x3,0	210	34	16	7.0	190	3-M12	60.0	1360
KIA M165x3,0	210	34	16	7.0	190	3-M12	60.0	1400
KIA M170x3,0	220	34	16	7.0	200	3-M12	60.0	1430
KIA M180x3,0	230	36	18	8.0	205	3-M12	60.0	1600
KIA M190x3,0	240	36	18	8.0	215	3-M12	60.0	1670
KIA M200x3,0	250	38	18	8.0	225	3-M12	60.0	1850
KIA M210x4,0	270	38	18	8	238	3-M14	85.0	2200
KIA M220x3,0	270	38	18	8	245	3-M14	85.0	2200
KIA M220x4,0	270	38	18	8	245	3-M14	85.0	2200
KIA M240x4,0	290	38	18	8	265	3-M14	85.0	2300
KIA M260x3,0	310	38	18	8	285	3-M14	85.0	2500
KIA M260x4,0	310	38	18	8	285	3-M14	85.0	2500
KIA M280x4,0	330	40	18	8	305	3-M14	85.0	2850
KIA M300x4,0	350	40	18	8	325	3-M14	85.0	3100

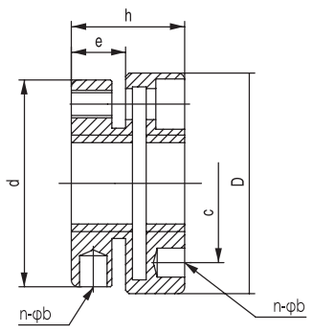
- Per filetto sinistro inserire "L" (esempio KIA M210X4,0L) - For left thread nuts insert "L" (example KIA M210x4,0L)

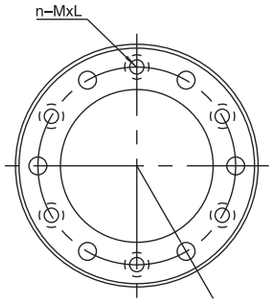


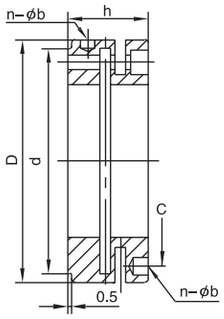


Tipo e Passo Type & Pitch	Dimensioni - Dimensions						Coppia Torque (NM)
	D (mm)	h (mm)	d (mm)	c (mm)	n x diam.b (mm)	n-M x L	
KIK M10x0,75	24	14	22	17	3 x diam.2.5	3-M3x10	2
KIK M10x1,0	24	15	22	17	3 x diam.2.5	3-M3x10	2
KIK M12x1,0	26	14	25	19	3 x diam.3	3-M3x10	2
KIK M12x1,5	26	15	25	19	3 x diam.3	3-M3x10	2
KIK M14x1,5	32	16	30	22.5	3 x diam.4	3-M4x10	3
KIK M15x1,0	33	16	31	23.5	3 x diam.4	3-M4x10	3
KIK M16x1,5	34	18	30	25	4 x diam.4	4-M4x12	3.5
KIK M17x1,0	37	18	32	26	4 x diam.4	4-M4x12	3.5
KIK M18x1,5	38	18	33	28	4 x diam.4	4-M4x12	3.5
KIK M20x1,0	40	18	35	30	4 x diam.4	4-M4x12	3.5
KIK M20x1,5	40	18	35	30	4 x diam.4	4-M4x12	3.5
KIK M22x1,5	42	18	37	32	4 x diam.4	4-M4x12	3.5
KIK M24x1,5	44	18	39	34	4 x diam.4	4-M4x12	3.5
KIK M25x1,5	45	20	40	35	4 x diam.5	4-M4x14	3.5
KIK M26x1,5	45	20	40	35	4 x diam.5	4-M4x14	3.5
KIK M27x1,5	46	20	43	37	4 x diam.5	4-M4x14	3.5

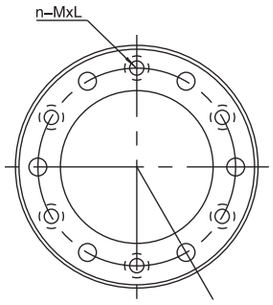


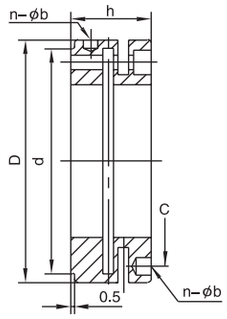






Tipo e Passo Type & Pitch	Dimensioni - Dimensions						Coppia Torque (NM)
	D (mm)	h (mm)	d (mm)	c (mm)	n x diam.b (mm)	n-M x L	
KIK M28x1,5	46	20	43	37	4 x diam.5	4-M4x14	3.5
KIK M30x1,5	48	20	45	39	4 x diam.5	4-M4x14	3.5
KIK M32x1,5	50	22	47	41	4 x diam.5	4-M4x16	3.5
KIK M33x1,5	51	22	48	42	4 x diam.5	4-M4x16	3.5
KIK M35x1,5	53	22	50	44	4 x diam.5	4-M4x16	3.5
KIK M38x1,5	56	22	53	47	4 x diam.5	4-M4x16	3.5
KIK M39x1,5	58	22	55	47	4 x diam.5	4-M4x16	3.5
KIK M40x1,5	58	22	55	49	4 x diam.5	4-M4x16	3.5
KIK M42x1,5	60	22	57	51	4 x diam.5	4-M4x16	3.5
KIK M45x1,5	68	22	63	57	6 x diam.6	6-M4x16	3.5
KIK M48x1,5	69	25	65	58	6 x diam.6	6-M4x18	3.5
KIK M50x1,5	70	25	66	60	6 x diam.6	6-M4x18	3.5
KIK M52x1,5	72	25	68	62	6 x diam.6	6-M4x18	3.5
KIK M55x1,5	75	25	71	65	6 x diam.6	6-M4x18	3.5
KIK M55x2,0	75	25	71	65	6 x diam.6	6-M4x18	4.5
KIK M56x1,5	75	25	71	65	6 x diam.6	6-M4x18	4.5
KIK M58x1,5	82	26	77	70	6 x diam.6	6-M5x20	4.5
KIK M60x1,5	84	26	79	72	6 x diam.6	6-M5x20	4.5
KIK M60x2,0	84	26	79	72	6 x diam.6	6-M5x20	4.5
KIK M62x1,5	86	28	82	75	6 x diam.6	6-M5x20	4.5
KIK M64x1,5	86	28	82	75	6 x diam.6	6-M5x20	4.5
KIK M65x2,0	88	28	84	77	6 x diam.6	6-M5x20	4.5
KIK M68x1,5	93	28	87	80	6 x diam.7	6-M5x20	4.5
KIK M68x2,0	93	28	87	80	6 x diam.7	6-M5x20	4.5

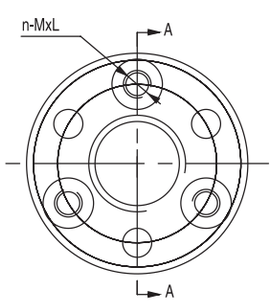


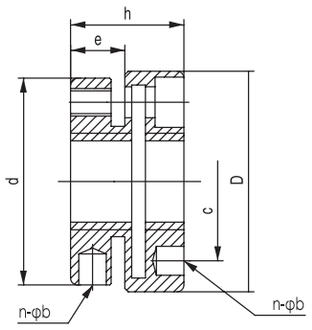


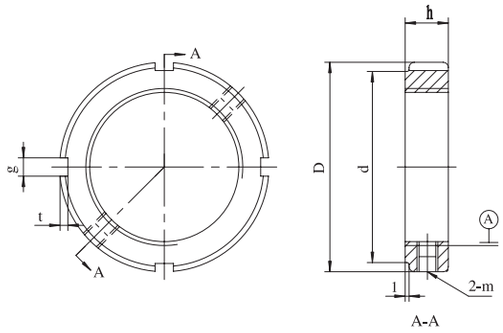
Tipo e Passo Type & Pitch	Dimensioni - Dimensions						Coppia Torque (NM)
	D (mm)	h (mm)	d (mm)	c (mm)	n x diam.b (mm)	n-M x L	
KIK M70x1,5	95	28	89	82	6 x diam.7	6-M5x20	4.5
KIK M70x2,0	95	28	89	82	6 x diam.7	6-M5x20	4.5
KIK M72x1,5	97	28	91	84	6 x diam.7	6-M5x20	4.5
KIK M75x1,5	100	28	94	87	6 x diam.7	6-M5x20	4.5
KIK M75x2,0	100	28	94	87	6 x diam.7	6-M5x20	4.5
KIK M80x2,0	110	32	103	95	6 x diam.8	6-M6x22	4.5
KIK M85x2,0	115	32	108	100	6 x diam.8	6-M6x22	8.0
KIK M90x2,0	120	32	113	105	6 x diam.8	6-M6x22	8.0
KIK M95x2,0	125	32	118	110	6 x diam.8	6-M6x22	8.0
KIK M100x2,0	130	32	123	115	6 x diam.8	6-M6x22	8.0
KIK M105x2,0	135	32	128	120	6 x diam.8	6-M6x22	8.0
KIK M110x2,0	140	32	133	125	6 x diam.8	6-M6x22	8.0
KIK M115x2,0	145	34	137	130	6 x diam.8	6-M6x22	8.0
KIK M116x2,0	145	34	137	130	6 x diam.8	6-M6x22	8.0
KIK M120x2,0	155	36	146	136	6 x diam.8	6-M6x25	8.0
KIK M125x2,0	160	36	150	140	6 x diam.8	6-M6x25	8.0
KIK M130x2,0	165	36	155	148	6 x diam.8	6-M6x25	8.0
KIK M130x3,0	165	36	155	148	6 x diam.8	6-M6x25	8.0
KIK M140x2,0	180	38	168	160	8 x diam.10	8-M6x25	8.0
KIK M140x3,0	180	38	168	160	8 x diam.10	8-M6x25	8.0
KIK M150x2,0	190	38	178	170	8 x diam.10	8-M6x25	8.0
KIK M150x3,0	190	38	178	170	8 x diam.10	8-M6x25	8.0
KIK M160x3,0	205	40	190	178	8 x diam.10	8-M8x30	18.0
KIK M170x3,0	215	40	203	193	8 x diam.10	8-M8x30	18.0

Tipo e Passo Type & Pitch	Dimensioni - Dimensions						Coppia Torque (NM)
	D (mm)	h (mm)	d (mm)	c (mm)	n x diam.b (mm)	n-M x L	
KIK M180x3,0	230	40	215	205	8 x diam.10	8-M8x30	18.0
KIK M190x3,0	240	40	225	215	8 x diam.10	8-M8x30	18.0
KIK M200x3,0	245	40	233	223	8 x diam.10	8-M8x30	18.0
KIK M210x4,0	265	40	253	243	8 x diam.10	8-M8x30	18.0
KIK M220x3,0	265	40	253	243	8 x diam.10	8-M8x30	18.0
KIK M220x4,0	265	40	253	243	8 x diam.10	8-M8x30	18.0
KIK M240x3,0	285	42	275	263	8 x diam.12	8-M10x30	35.0
KIK M260x3,0	305	42	295	283	8 x diam.12	8-M10x30	35.0
KIK M260x4,0	305	42	295	283	8 x diam.12	8-M10x30	35.0
KIK M280x4,0	325	42	315	303	8 x diam.12	8-M10x30	35.0
KIK M300x4,0	345	42	335	323	8 x diam.12	8-M10x30	35.0

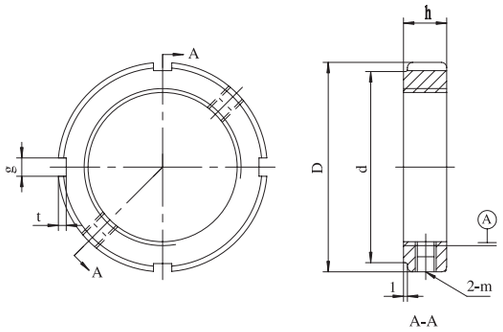
- Per filetto sinistro inserire "L" (esempio KIK M210X4,0L) - For left thread nuts insert "L" (example KIK M210x4,0L)



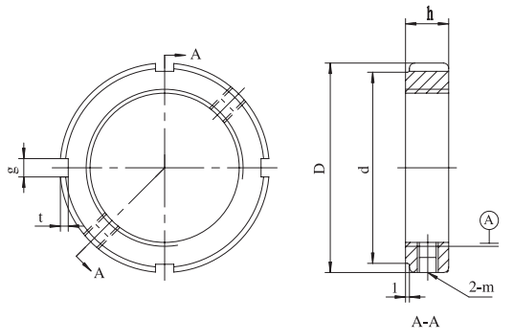




Tipo e Passo Type & Pitch	Dimensioni - Dimensions						Coppia Torque (NM)	Carico Assiale Axial Load (KN)
	D (mm)	h (mm)	g (mm)	t (mm)	d (mm)	n-M		
KIZ M20x1,0	32	10	4	2.0	27	2-M5	4.5	69
KIZ M20x1,5	32	10	4	2.0	27	2-M5	4.5	69
KIZ M22x1,5	35	10	4	2.0	30	2-M5	4.5	81
KIZ M24x1,5	38	12	5	2.0	33	2-M6	8.0	90
KIZ M25x1,5	38	12	5	2.0	33	2-M6	8.0	90
KIZ M27x1,5	42	12	5	2.0	37	2-M6	8.0	98
KIZ M30x1,0	45	12	5	2.0	40	2-M6	8.0	112
KIZ M30x1,5	45	12	5	2.0	40	2-M6	8.0	112
KIZ M33x1,5	52	12	5	2.0	45	2-M6	8.0	134
KIZ M35x1,5	52	12	5	2.0	47	2-M6	8.0	134
KIZ M36x1,5	55	14	6	2.5	49	2-M6	8.0	143
KIZ M39x1,5	58	14	6	2.5	52	2-M6	8.0	157
KIZ M40x1,5	58	14	6	2.5	52	2-M6	8.0	157
KIZ M42x1,5	62	14	6	2.5	56	2-M6	8.0	176
KIZ M45x1,5	65	14	6	2.5	59	2-M6	8.0	181
KIZ M48x1,5	65	14	6	2.5	62	2-M6	8.0	193
KIZ M50x1,5	70	14	6	2.5	64	2-M6	8.0	205
KIZ M52x1,5	73	16	7	3.0	66	2-M8	18.0	213
KIZ M55x2,0	75	16	7	3.0	68	2-M8	18.0	229
KIZ M56x2,0	77	16	7	3.0	70	2-M8	18.0	240
KIZ M60X1,5	80	16	7	3.0	73	2-M8	18.0	255
KIZ M60X2,0	80	16	7	3.0	73	2-M8	18.0	255
KIZ M64x2,0	85	16	7	3.0	78	2-M8	18.0	280
KIZ M65x2,0	85	16	7	3.0	78	2-M8	18.0	280

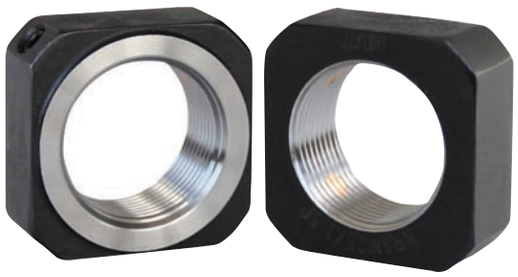


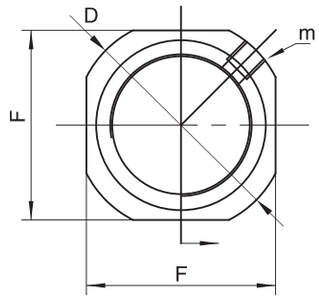
Tipo e Passo Type & Pitch	Dimensioni - Dimensions						Coppia Torque (NM)	Carico Assiale Axial Load (KN)
	D (mm)	h (mm)	g (mm)	t (mm)	d (mm)	n-M		
KIZ M68x2,0	92	18	8	3.5	84	2-M8	18.0	305
KIZ M70x2,0	92	18	8	3.5	84	2-M8	18.0	305
KIZ M72x2,0	95	18	8	3.5	86	2-M8	18.0	320
KIZ M75x2,0	98	18	8	3.5	90	2-M8	18.0	331
KIZ M76x2,0	100	18	8	3.5	92	2-M8	18.0	342
KIZ M80x2,0	105	18	8	3.5	96	2-M8	18.0	355
KIZ M85X2,0	110	18	8	3.5	102	2-M8	18.0	385
KIZ M90x2,0	120	20	10	4.0	106	2-M8	18.0	410
KIZ M95x2,0	125	20	10	4.0	112	2-M8	18.0	450
KIZ M100x2,0	130	20	10	4.0	117	2-M8	18.0	465
KIZ M105x2,0	140	22	12	5.0	124	2-M10	35.0	495
KIZ M110x2,0	145	22	12	5.0	130	2-M10	35.0	520
KIZ M115x2,0	150	22	12	5.0	135	2-M10	35.0	550
KIZ M120x2,0	155	24	12	5.0	140	2-M10	35.0	580
KIZ M125x2,0	160	24	12	5.0	145	2-M10	35.0	610
KIZ M130X2,0	165	24	12	5.0	150	2-M10	35.0	630
KIZ M135x2,0	175	26	14	6.0	158	2-M10	35.0	670
KIZ M140x2,0	180	26	14	6.0	160	2-M12	60.0	690
KIZ M145x2,0	190	26	14	6.0	170	2-M12	60.0	720
KIZ M150x2,0	195	26	14	6.0	180	2-M12	60.0	750
KIZ M155x3,0	200	28	16	7.0	178	2-M12	60.0	830
KIZ M158x2,0	200	28	16	7.0	178	2-M12	60.0	830
KIZ M158x3,0	200	28	16	7.0	178	2-M12	60.0	830
KIZ M160x3,0	210	28	16	7.0	188	2-M12	60.0	980

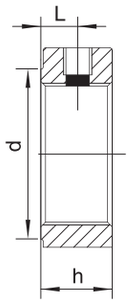


Tipo e Passo Type & Pitch	Dimensioni - Dimensions						Coppia Torque (NM)	Carico Assiale Axial Load (KN)
	D (mm)	h (mm)	g (mm)	t (mm)	d (mm)	n-M		
KIZ M165x3,0	210	28	16	7.0	188	2-M12	60.0	980
KIZ M170x3,0	220	28	16	7.0	198	2-M12	60.0	1130
KIZ M180x3,0	230	30	18	8.0	202	2-M12	60.0	1300
KIZ M190x3,0	240	30	18	8.0	212	2-M12	60.0	1470
KIZ M200x3,0	250	32	18	8.0	223	2-M12	60.0	1600
KIZ M210x4,0	270	34	18	8.0	238	2-M14	85.0	2000
KIZ M220x3,0	270	34	18	8.0	245	2-M14	85.0	2000
KIZ M220x4,0	270	34	18	8.0	245	2-M14	85.0	2000
KIZ M240x3,0	290	34	18	8.0	265	2-M14	85.0	2200
KIZ M260x3,0	310	36	18	8.0	285	2-M14	85.0	2400
KIZ M260x4,0	310	36	18	8.0	285	2-M14	85.0	2400
KIZ M280X4,0	330	36	18	8.0	305	2-M14	85.0	2650
KIZ M300x4,0	350	36	18	8.0	325	2-M14	85.0	2800

- Per filetto sinistro inserire "L" (esempio KIZ M210X4,0L) - For left thread nuts insert "L" (example KIZ M210x4,0L)

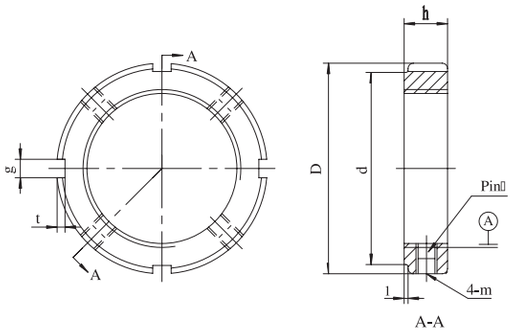




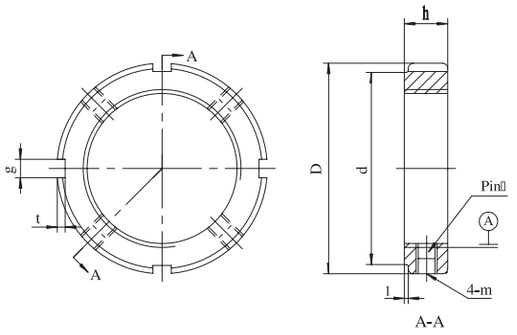


Tipo e Passo Type & Pitch	Dimensioni - Dimensions					
	m	D (mm)	d (mm)	h (mm)	L (mm)	F (mm)
KIRA M4x0,5	M2.6	11.5	8	5	2.7	10
KIRA M5x0,5	M2.6	13.5	9	5	2.7	11
KIRA M6x0,75	M3x0.5	14.5	10	5	2.7	12
KIRA M8x1,0	M3x0.5	17	13	6.5	4	14
KIRA M10x1,0	M3x0.5	20	16	8	5	17
KIRA M12x1,0	M3x0.5	22	17	8	5	19
KIRA M15x1,0	M3x0.5	25	21	10	6	22
KIRA M17x1,0	M4x0.7	30	25	13	9	24
KIRA M20x1,0	M4x0.7	35	26	13	8	30
KIRA M25x1,5	M5x0.8	43	33	15	10	35
KIRA M30x1,5	M6x1.0	48	39	20	14	40
KIRA M35x1,5	M8x1.25	60	46	21	14	50
KIRA M40x1,5	M8x1.25	63	51	25	18	50

- Per filetto sinistro inserire "L" (esempio KIRA M210X4,0L) - For left thread nuts insert "L" (example KIRA M210x4,0L)

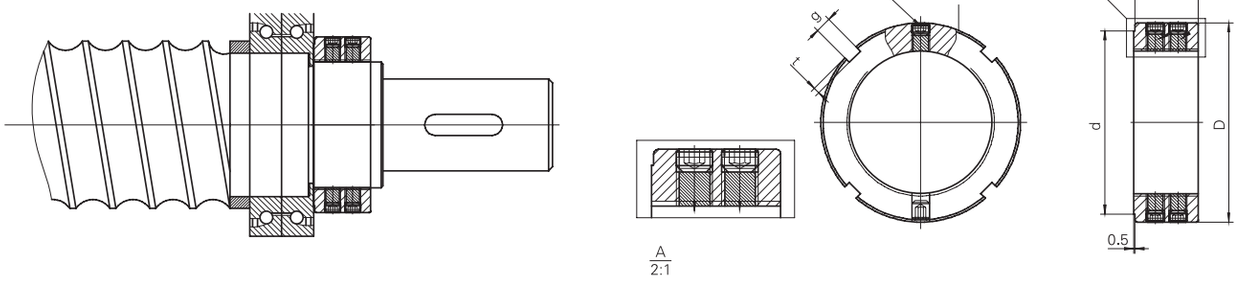


Tipo e Passo Type & Pitch	Dimensioni - Dimensions						Coppia Torque (NM)	Carico Assiale Axial Load (KN)
	D (mm)	h (mm)	g (mm)	t (mm)	d (mm)	n-M		
KIRB M90x2,0	120	20	10	4.0	106	4-M10	35.0	410
KIRB M95x2,0	125	20	10	4.0	112	4-M10	35.0	450
KIRB M100x2,0	130	20	10	4.0	117	4-M10	35.0	465
KIRB M105x2,0	140	22	12	5.0	124	4-M10	35.0	495
KIRB M110x2,0	145	22	12	5.0	130	4-M10	35.0	520
KIRB M115x2,0	150	22	12	5.0	135	4-M10	35.0	550
KIRB M120x2,0	155	24	12	5.0	140	4-M10	35.0	580
KIRB M125x2,0	160	24	12	5.0	145	4-M10	35.0	610
KIRB M130x2,0	165	24	12	5.0	150	4-M10	35.0	630
KIRB M135x2,0	175	26	14	6.0	158	4-M10	35.0	670
KIRB M140x2,0	180	26	14	6.0	160	4-M12	60.0	690
KIRB M145x2,0	190	26	14	6.0	170	4-M12	60.0	720
KIRB M150x2,0	195	26	14	6.0	180	4-M12	60.0	750
KIRB M155x2,0	200	28	16	7.0	178	4-M12	60.0	830
KIRB M158x2,0	200	28	16	7.0	178	4-M12	60.0	830
KIRB M158x3,0	200	28	16	7.0	178	4-M12	60.0	830
KIRB M160x3,0	210	28	16	7.0	188	4-M12	60.0	980
KIRB M165x3,0	210	28	16	7.0	188	4-M12	60.0	980
KIRB M170x3,0	220	28	16	7.0	198	4-M12	60.0	1130
KIRB M180x3,0	230	30	18	8.0	202	4-M12	60.0	1300
KIRB M190x3,0	240	30	18	8.0	212	4-M12	60.0	1470
KIRB M200x3,0	250	32	18	8.0	223	4-M12	60.0	1600

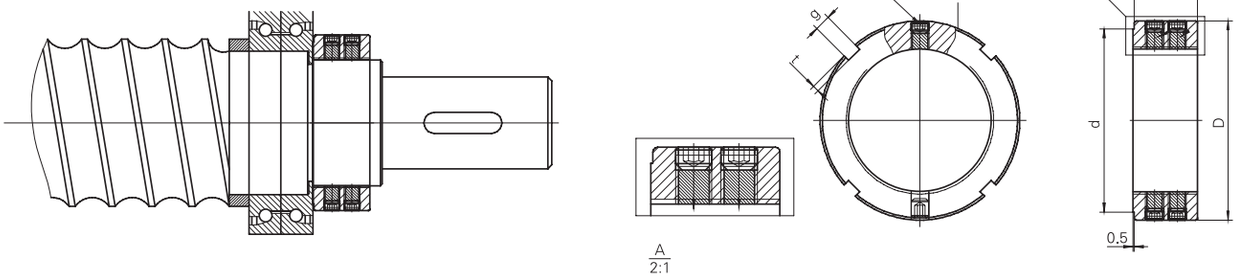


Tipo e Passo Type & Pitch	Dimensioni - Dimensions						Coppia Torque (NM)	Carico Assiale Axial Load (KN)
	D (mm)	h (mm)	g (mm)	t (mm)	d (mm)	n-M		
KIRB 210x4,0	270	34	18	8.0	238	4-M14	60.0	2000
KIRB M220x3,0	270	34	18	8.0	245	4-M14	85.0	2000
KIRB M220x4,0	270	34	18	8.0	245	4-M14	85.0	2000
KIRB M240x3,0	290	34	18	8.0	265	4-M14	85.0	2200
KIRB M260x3,0	310	36	18	8.0	285	4-M14	85.0	2400
KIRB M260x4,0	310	36	18	8.0	285	4-M14	85.0	2400
KIRB M280x4,0	330	36	18	8.0	305	4-M14	85.0	2650
KIRB M300x4,0	350	36	18	8.0	325	4-M14	85.0	2800

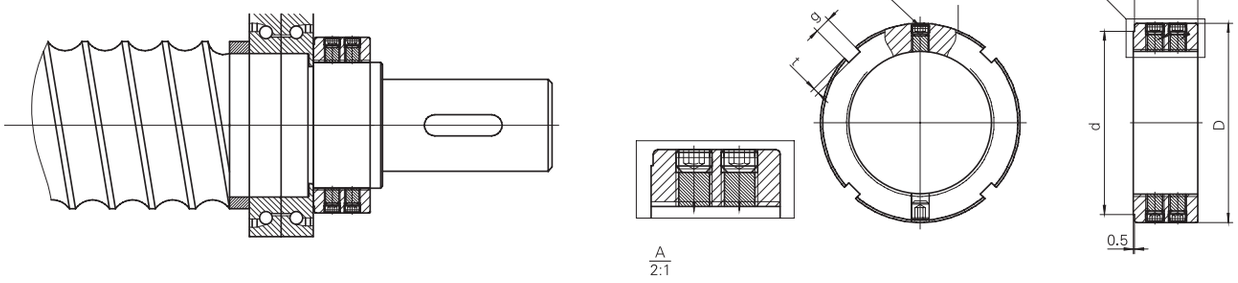
- Per filetto sinistro inserire "L" (esempio KIRB M210X4,0L) - For left thread nuts insert "L" (example KIRB M210x4,0L)



Tipo e Passo Type & Pitch	Dimensioni - Dimensions						Coppia Torque (NM)
	D (mm)	h (mm)	g (mm)	t (mm)	d (mm)	n-M	
KIRC M20x1,0	32	16	4	2.0	27	4-M5	4.5
KIRC M20x1,5	32	16	4	2.0	27	4-M5	4.5
KIRC M22x1,5	35	16	4	2.0	30	4-M5	4.5
KIRC M24x1,5	38	16	5	2.0	33	4-M6	8.0
KIRC M25x1,5	38	16	5	2.0	33	4-M6	8.0
KIRC M27X1,5	42	16	5	2.0	37	4-M6	8.0
KIRC M30x1,0	45	16	5	2.0	40	4-M6	8.0
KIRC M30X1,5	45	16	5	2.0	40	4-M6	8.0
KIRC M33x1,5	52	16	5	2.0	45	4-M6	8.0
KIRC M35x1,5	52	16	5	2.0	47	4-M6	8.0
KIRC M36x1,5	55	16	6	2.5	49	4-M6	8.0
KIRC M39x1,5	58	16	6	2.5	52	4-M6	8.0
KIRC M40x1,5	58	16	6	2.5	52	4-M6	8.0
KIRC M42x1,5	62	16	6	2.5	56	4-M6	8.0
KIRC M45x1,5	65	16	6	2.5	59	4-M6	8.0
KIRC M48x1,5	68	16	6	2.5	62	4-M6	8.0
KIRC M50x1,5	70	28	6	2.5	64	4-M6	8.0
KIRC M52x1,5	73	28	7	3.0	66	4-M8	18.0
KIRC M55x2,0	75	28	7	3.0	68	4-M8	18.0
KIRC M56x2,0	77	28	7	3.0	70	4-M8	18.0
KIRC M60x1,5	80	28	7	3.0	73	4-M8	18.0
KIRC M60x2,0	80	28	7	3.0	73	4-M8	18.0
KIRC M64x2,0	85	28	7	3.0	78	4-M8	18.0
KIRC M65x2,0	85	28	7	3.0	78	4-M8	18.0

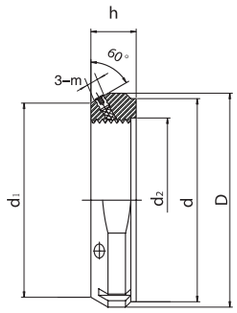


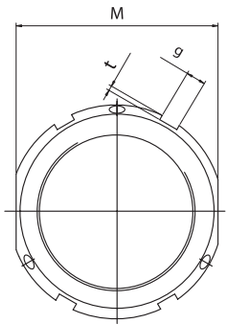
Tipo e Passo Type & Pitch	Dimensioni - Dimensions						Coppia Torque (NM)
	D (mm)	h (mm)	g (mm)	t (mm)	d (mm)	n-M	
KIRC M68x2,0	92	28	8	3.5	84	4-M8	18.0
KIRCM70x2,0	92	28	8	3.5	84	4-M8	18.0
KIRC M72x2,0	95	28	8	3.5	86	4-M8	18.0
KIRC M75X2,0	98	28	8	3.5	90	4-M8	18.0
KIRC M76x2,0	100	28	8	3.5	92	4-M8	18.0
KIRC M80x2,0	105	28	8	3.5	96	4-M8	18.0
KIRC M85x2,0	110	32	8	3.5	102	4-M8	18.0
KIRC M90x2,0	120	32	10	4.0	106	4-M8	18.0
KIRC M95x2,0	125	32	10	4.0	112	4-M8	18.0
KIRC M100x2,0	130	32	10	4.0	117	4-M8	18.0
KIRC M105x2,0	140	32	12	5.0	124	4-M10	35.0
KIRC M110x2,0	145	32	12	5.0	130	4-M10	35.0
KIRC M115x2,0	150	32	12	5.0	135	4-M10	35.0
KIRC M120x2,0	155	32	12	5.0	140	4-M10	35.0
KIRC M125x2,0	160	32	12	5.0	145	4-M10	35.0
KIRC M130x2,0	165	32	12	5.0	150	4-M10	35.0
KIRC M135x2,0	175	32	14	6.0	158	4-M10	35.0
KIRC M140x2,0	180	32	14	6.0	160	4-M10	35.0
KIRC M145x2,0	190	32	14	6.0	170	4-M10	35.0
KIRC M150x2,0	195	32	14	6.0	180	4-M10	35.0
KIRC M155X3,0	200	32	16	7.0	178	4-M10	35.0
KIRC M158x2,0	200	32	16	7.0	178	4-M10	35.0
KIRC M158x3,0	200	32	16	7.0	178	4-M10	35.0
KIRC M160x3,0	210	32	16	7.0	188	4-M10	35.0



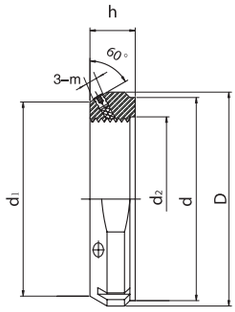
Tipo e Passo Type & Pitch	Dimensioni - Dimensions						Coppia Torque (NM)
	D (mm)	h (mm)	g (mm)	t (mm)	d (mm)	n-M	
KIRC M165x3,0	210	32	16	7.0	188	4-M10	35.0
KIRC M170x3,0	220	32	16	7.0	198	4-M10	35.0
KIRC M180x3,0	230	32	18	8.0	202	4-M10	35.0
KIRC M190x3,0	240	32	18	8.0	212	4-M10	35.0
KIRC M200x3,0	250	32	18	8.0	223	4-M10	35.0

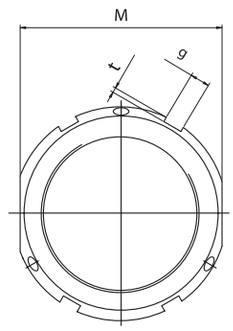
- Per filetto sinistro inserire "L" (esempio KIRC M210X4,0L) - For left thread nuts insert "L" (example KIRC M210x4,0L)





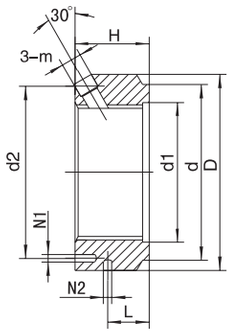
Tipo e Passo Type & Pitch	Dimensioni - Dimensions								Coppia Torque (NM)	Carico Assiale Axial Load (KN)
	d1 (mm)	D (mm)	d (mm)	d2 (mm)	h (mm)	g (mm)	t (mm)	M (mm)		
KMT M10x0,75	21	28	21	11	14	4	2.5	26	4.5	35
KMT M12x1,0	23	30	23	13	14	4	2.5	28	4.5	40
KMT M15x1,0	26	33	26	16	16	4	2.5	30	4.5	60
KMT M17x1,0	29	37	31	18	18	5	2.5	34	8.0	80
KMT M20x1,0	32	40	33	21	18	5	2.5	36	8.0	90
KMT M25x1,5	36	44	37	26	20	5	2.5	41	8.0	130
KMT M30x1,5	40	49	42	32	20	5	2.5	46	8.0	160
KMT M35x1,5	46	54	47	38	22	5	2.5	50	8.0	190
KMT M40x1,5	55	65	57	42	22	6	3	60	8.0	210
KMT M45x1,5	60	70	62	48	22	6	3	65	8.0	240
KMT M50x1,5	65	75	66	52	25	7	3.5	70	8.0	300
KMT M55x2,0	73	85	76	58	25	7	3.5	80	18	340
KMT M60x2,0	78	90	80	62	26	8	4	85	18	380
KMT M65x2,0	83	95	85	68	28	8	4	90	18	460
KMT M70x2,0	88	100	90	72	28	8	4	95	18	490
KMT M75x2,0	93	105	95	77	28	8	4	100	18	520
KMT M80x2,0	98	110	98	83	32	8	4	105	18	620
KMT M85x2,0	107	120	108	88	32	10	4	115	35	650
KMT M90x2,0	112	125	113	93	32	10	4	120	35	680
KMT M95x2,0	117	130	118	98	32	10	4	125	35	710
KMT M100x2,0	122	135	123	103	32	10	4	130	35	740
KMT M110x2,0	131	145	132	112	32	10	4	140	35	800

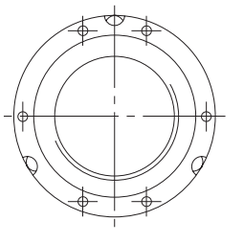




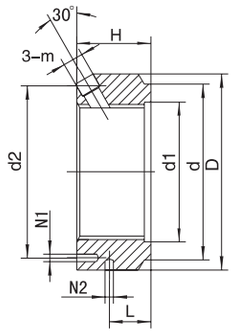
Tipo e Passo Type & Pitch	Dimensioni - Dimensions								Coppia Torque (NM)	Carico Assiale Axial Load (KN)
	d1 (mm)	D (mm)	d (mm)	d2 (mm)	h (mm)	g (mm)	t (mm)	M (mm)		
KMT M120x2,0	141	155	142	122	32	10	4	150	35	860
KMT M130x2,0	151	165	152	132	32	12	5	160	35	920
KMT M140x2,0	161	175	160	142	32	14	6	170	35	980
KMT M150x2,0	171	185	172	152	32	14	6	180	35	1040
KMT M160x2,0	181	195	182	162	32	14	6	190	35	1100
KMT M170x2,0	191	205	192	172	32	14	6	200	35	1160
KMT M180x2,0	200	215	200	182	32	16	7	210	35	1220
KMT M190x2,0	210	225	210	192	32	16	7	220	35	1280
KMT M200x2,0	220	235	220	202	32	16	7	230	35	1340

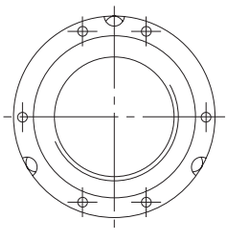
- Per filetto sinistro inserire "L" (esempio KMT M100X2,0L) - For left thread nuts insert "L" (example KMT M100x2,0L)





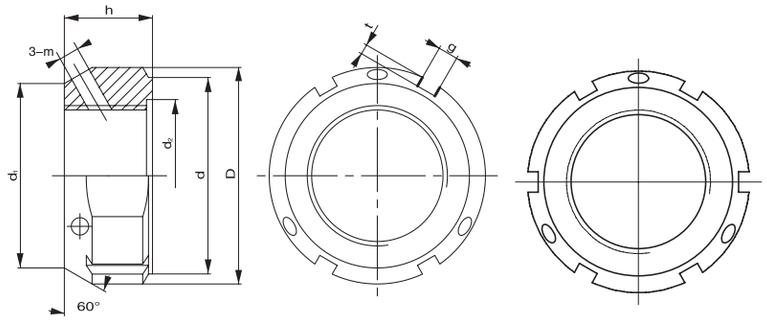
Tipo e Passo Type & Pitch	Dimensioni - Dimensions									Coppia Torque (NM)	Carico Assiale Axial Load (KN)
	D (mm)	d (mm)	d1 (mm)	H (mm)	d2 (mm)	L (mm)	N1 (mm)	N2 (mm)	m		
KMTA M20x1,5	38	30	21	18	29	10	4.3	4	M6	8.0	110
KMTA M25x1,5	42	35	26	20	32.5	11	4.3	4	M6	8.0	130
KMTA M30x1,5	48	40	32	20	40.5	11	4.3	5	M6	8.0	160
KMTA M35x1,5	53	47	38	22	45.5	11	4.3	5	M6	8.0	190
KMTA M40x1,5	58	52	42	22	50.5	12	4.3	5	M6	8.0	210
KMTA M45x1,5	68	58	48	22	58	12	4.3	6	M6	8.0	240
KMTA M50x1,5	70	63	52	24	61.5	13	4.3	6	M6	8.0	330
KMTA M55x1,5	75	70	58	24	66.5	13	4.3	6	M6	8.0	340
KMTA M60x1,5	80	75	62	24	74.5	13	5.3	6	M6	8.0	380
KMTA M65x1,5	88	80	68	25	78.5	13	5.3	6	M8	8.0	460
KMTA M70x1,5	95	86	72	26	85	14	5.3	8	M8	18	490
KMTA M75x1,5	100	91	77	26	88	13	6.4	8	M8	18	520
KMTA M80x2,0	110	97	83	30	95	16	6.4	8	M8	18	620
KMTA M85x2,0	115	102	88	32	100	17	6.4	8	M10	35	650
KMTA M90x2,0	120	110	93	32	108	17	6.4	8	M10	35	680
KMTA M95x2,0	125	114	98	32	113	17	6.4	8	M10	35	710
KMTA M100x2,0	130	120	103	32	118	17	6.4	8	M10	35	740
KMTA M110x2,0	140	132	112	32	128	17	6.4	8	M10	35	800
KMTA M120x2,0	155	142	122	32	140	17	6.4	8	M10	35	800
KMTA M130x3,0	165	156	132	32	153	17	6.4	8	M10	35	920



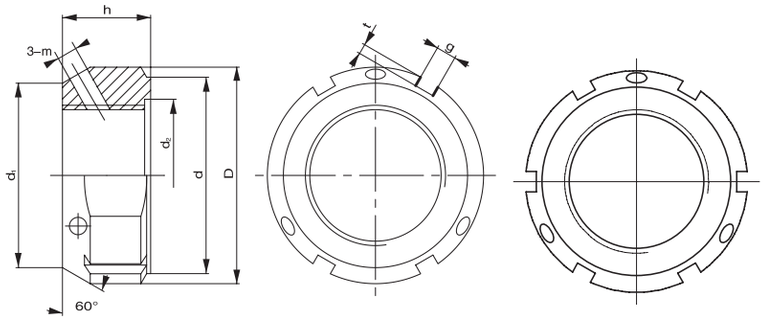


Tipo e Passo Type & Pitch	Dimensioni - Dimensions									Coppia Torque (NM)	Carico Assiale Axial Load (KN)
	D (mm)	d (mm)	d1 (mm)	H (mm)	d2 (mm)	L (mm)	N1 (mm)	N2 (mm)	m		
KMTA M140x3,0	180	166	142	32	165	17	6.4	10	M10	35	980
KMTA M150x3,0	190	180	152	32	175	17	6.4	10	M10	35	1040
KMTA M160x3,0	205	190	162	32	185	17	8.4	10	M10	35	1100
KMTA M170x3,0	215	205	172	32	195	17	8.4	10	M10	35	1160
KMTA M180x3,0	230	215	182	32	210	17	8.4	10	M10	35	1220
KMTA M190x3,0	240	225	192	32	224	17	8.4	10	M10	35	1280
KMTA M200x3,0	245	237	202	32	229	17	8.4	10	M10	35	1340

- Per filetto sinistro inserire "L" (esempio KMTA M100X2,0L) - For left thread nuts insert "L" (example KMTA M100x2,0L)

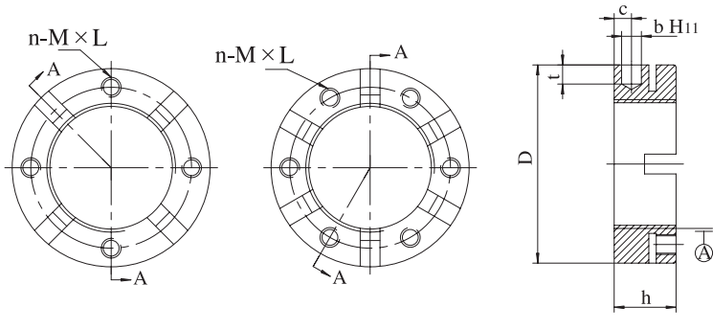


Tipo e Passo Type & Pitch	Dimensioni - Dimensions								Coppia Torque (NM)	Carico Assiale Axial Load (KN)
	d1 (mm)	D (mm)	d (mm)	d2 (mm)	h (mm)	g (mm)	t (mm)	m		
KFC M10x0,75	21	28	23	11	14	4	2.5	M5	4.5	40
KFC M12x1,0	23	30	25	13	14	4	2.5	M5	4.5	40
KFC M15x1,0	26	33	28	16	16	4	2.5	M5	4.5	60
KFC M17x1,0	29	37	33	18	18	5	2.5	M6	8.0	80
KFC M20x1,0	32	40	35	21	18	5	2.5	M6	8.0	90
KFC M25x1,5	36	44	39	26	20	5	2.5	M6	8.0	130
KFC M30x1,5	41	49	44	32	20	5	2.5	M6	8.0	160
KFC M35x1,5	46	54	49	38	22	5	2.5	M6	8.0	190
KFC M40x1,5	56	65	59	42	22	6	3	M6	8.0	210
KFC M45x1,5	61	70	64	48	22	6	3	M6	8.0	240
KFC M50x1,5	65	75	68	52	25	7	3.5	M6	8.0	300
KFC M55x2,0	74	85	78	58	25	7	3.5	M8	18	340
KFC M60x2,0	78	90	82	62	26	8	4	M8	18	380
KFC M65x2,0	83	95	87	68	28	8	4	M8	18	460
KFC M70x2,0	88	100	92	72	28	8	4	M8	18	490
KFC M75x2,0	93	105	97	77	28	8	4	M8	18	520
KFC M80x2,0	98	110	100	83	32	8	3.5	M8	18	620
KFC M85x2,0	107	120	110	88	32	10	4	M10	35	650
KFC M90x2,0	112	125	115	93	32	10	4	M10	35	680
KFC M95x2,0	117	130	120	98	32	10	4	M10	35	710

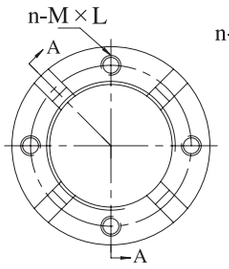


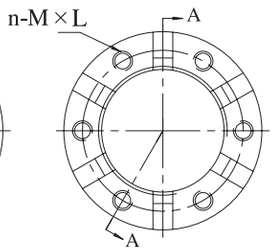
Tipo e Passo Type & Pitch	Dimensioni - Dimensions								Coppia Torque (NM)	Carico Assiale Axial Load (KN)
	d1 (mm)	D (mm)	d (mm)	d2 (mm)	h (mm)	g (mm)	t (mm)	m		
KFC M100X2,0	122	135	125	103	32	10	4	M10	35	740
KFC M110x2,0	132	145	134	112	32	10	4	M10	35	800
KFC M120x2,0	142	155	144	122	32	10	4	M10	35	860
KFC M130x2,0	152	165	154	132	32	12	5	M10	35	920
KFC M140x2,0	162	175	164	142	32	14	6	M10	35	980
KFC M150x2,0	172	185	174	152	32	14	6	M10	35	1040
KFC M160x2,0	182	195	184	162	32	14	6	M10	35	1100
KFC M170x2,0	192	205	194	172	32	14	6	M10	35	1160
KFC M180x2,0	202	215	204	182	32	16	7	M10	35	1220
KFC M190x2,0	212	225	214	192	32	16	7	M10	35	1280
KFC M200x2,0	222	235	224	202	32	18	8	M10	35	1340

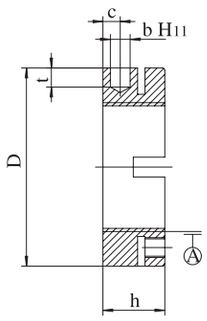
- Per filetto sinistro inserire "L" (esempio KFC M100X2,0L) - For left thread nuts insert "L" (example KFC M100x2,0L)



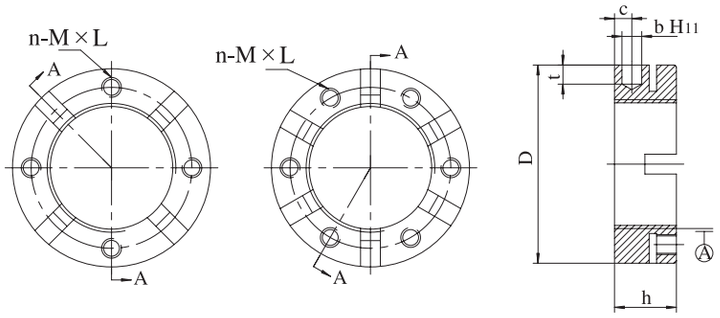
Tipo e Passo Type & Pitch	Dimensioni - Dimensions						Coppia Torque (NM)
	D (mm)	h (mm)	n-M x L (mm)	t (mm)	c (mm)	b (mm)	
KKA M14x1,0	30	18	4-M4 x 8	5	5	4	3.5
KKA M15x1,0	30	19	4-M4 x 8	5	5	4	3.5
KKA M16x1,5	30	18	4-M4 x 8	5	5	4	3.5
KKA M17x1,0	32	18	4-M4 x 8	5	5	4	3.5
KKA M17x1,5	32	18	4-M4 x 8	5	5	4	3.5
KKA M18x1,5	38	18	4-M6 x 8	5	5	4	5.0
KKA M20x1,0	38	18	4-M6 x 8	5	5	4	5.0
KKA M20x1,5	38	18	4-M6 x 8	5	5	4	5.0
KKA M22x1,5	42	18	4-M6 x 8	6	5	5	5.0
KKA M24x1,5	45	18	4-M6 x 8	7	5	5	5.0
KKA M25x1,5	45	20	4-M6 x 10	7	6	5	7.0
KKA M27x1,5	46	20	4-M6 x 10	7	6	5	7.0
KKA M28x1,5	46	20	4-M6 x 10	7	6	5	7.0
KKA M30x1,5	52	20	4-M6 x 10	7	6	5	7.0
KKA M32x1,5	54	20	4-M6 x 10	7	6	5	7.0
KKA M33x1,5	54	20	4-M6 x 10	7	6	5	7.0
KKA M35x1,5	58	20	4-M6 x 10	8	6	5	7.0
KKA M36x1,5	58	20	4-M6 x 10	8	6	6	7.0
KKA M38x1,5	60	22	4-M6 x 10	8	6	6	7.0
KKA M39x1,5	60	22	4-M6 x 10	8	6	6	7.0
KKA M40x1,5	65	22	4-M6 x 10	8	6	6	7.0
KKA M42x1,5	65	22	4-M6 x 10	8	6	6	7.0
KKA M45x1,5	70	22	6-M6 x 10	8	6	6	7.0
KKA M48X1,5	75	25	6-M6 x 10	8	8	6	7.0





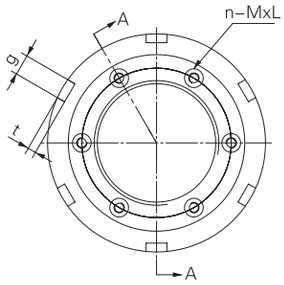


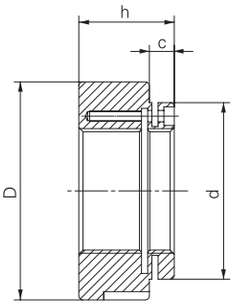
Tipo e Passo Type & Pitch	Dimensioni - Dimensions						Coppia Torque (NM)
	D (mm)	h (mm)	n-M x L (mm)	t (mm)	c (mm)	b (mm)	
KKA M50x1,5	75	25	6-M6 x10	8	8	6	7.0
KKA M52x1,5	80	25	6-M6 x 10	8	8	6	7.0
KKA M55x2,0	85	25	6-M6 x 10	8	8	6	7.0
KKA M56x2,0	85	26	6-M6 x 10	8	8	6	7.0
KKA M58x1,5	85	26	6-M6 x 10	8	8	6	7.0
KKA M60x2,0	90	26	6-M6 x 10	8	8	6	7.0
KKA M64x2,0	95	28	6-M6 x 10	8	8	6	7.0
KKA M65x2,0	95	28	6-M6 x 10	8	8	6	7.0
KKA M68x2,0	98	24	6-M6 x 10	10	8	6	7.0
KKA M70x2,0	100	28	6-M8 x 10	10	9	8	18.0
KKA M72x1,5	102	28	6-M8 x 10	10	9	8	18.0
KKA M72x2,0	102	28	6-M8 x 10	10	9	8	18.0
KKA M75x2,0	106	28	6-M8 x 10	10	9	8	18.0
KKA M76x2,0	106	32	6-M8 x 10	10	9	8	18.0
KKA M80x2,0	110	32	6-M8 x 10	10	9	8	18.0
KKA M85x2,0	115	32	6-M8 x 10	10	9	8	18.0
KKA M90x2,0	120	32	6-M8 x 10	10	13	8	18.0
KKA M95x2,0	125	32	6-M10 x 16	10	13	8	35.0
KKA M100x2,0	130	32	6-M10 x 16	10	13	8	35.0
KKA M105x2,0	135	32	6-M10 x 16	10	13	8	35.0
KKA M110x2,0	140	32	6-M10 x 16	10	13	8	35.0
KKA M115x2,0	145	34	6-M10 x 16	10	13	8	35.0
KKA M120x2,0	155	36	6-M10 x 16	10	13	8	35.0
KKA M125x2,0	160	36	6-M10 x 16	10	13	8	35.0



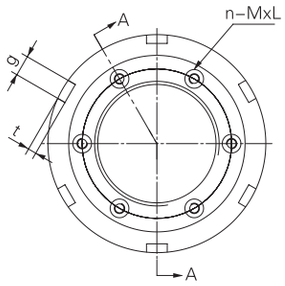
Tipo e Passo Type & Pitch	Dimensioni - Dimensions						Coppia Torque (NM)
	D (mm)	h (mm)	n-M x L (mm)	t (mm)	c (mm)	b (mm)	
KKA M130x2,0	165	36	6-M10 x 16	10	13	8	35.0
KKA M135x2,0	175	38	6-M12 x 18	10	13	10	60.0
KKA M140x2,0	180	38	6-M12 x 18	10	13	10	60.0
KKA M145x2,0	190	38	6-M12 x 18	10	13	10	60.0
KKA M150x2,0	196	38	6-M12 x 18	10	13	10	60.0
KKA M155x2,0	200	38	6-M12 x 18	12	13	10	60.0
KKA M160x2,0	205	40	6-M12 x 18	12	13	10	60.0
KKA M170x2,0	220	40	6-M12 x 18	12	13	10	60.0
KKA M180x2,0	230	40	6-M12 x 18	12	13	10	60.0
KKA M190x2,0	240	40	6-M12 x 18	12	13	10	60.0
KKA M200x2,0	250	40	6-M12 x 18	12	13	10	60.0

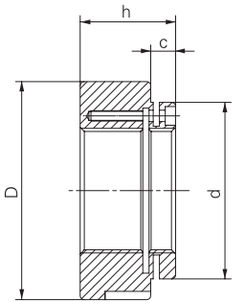
- Per filetto sinistro inserire "L" (esempio KKA M100X2,0L) - For left thread nuts insert "L" (example KKA M100x2,0L)





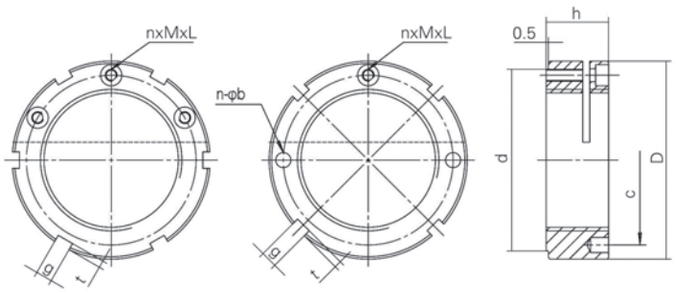
Tipo e Passo Type & Pitch	Dimensioni - Dimensions								Coppia Torque (NM)
	G (mm)	D (mm)	d (mm)	h (mm)	c (mm)	g (mm)	t (mm)	n-M x L (mm)	
KKB M4x28	M20x1.5	42	38	28	11	6	2.5	4-M4 x 16	3.5
KKB M5x28	M25x1.5	47	43	28	11	7	3	4-M4 x 16	3.5
KKB M6x28	M30x1.5	52	48	28	11	7	3	4-M4 x 16	3.5
KKB M7x28	M35x1.5	60	53	28	11	8	3.5	4-M4 x 16	3.5
KKB M8x28	M40x1.5	65	58	28	11	8	3.5	4-M4 x 16	3.5
KKB M9x28	M45X1.5	70	63	28	11	8	3.5	4-M4 x 16	3.5
KKB M10x32	M50x1.5	75	68	32	11	8	3.5	4-M4 x 16	3.5
KKB 4	M20x1.5	52	42	40	11	7	3	4-M4 x 20	3.5
KKB 5	M25x1.5	62	47	40	11	8	3.5	4-M4 x 20	3.5
KKB 6	M30x1.5	68	57	44	11	8	3.5	4-M4 x 20	3.5
KKB 7	M35x1.5	73	60	44	11	8	3.5	4-M4 x 20	3.5
KKB 8	M40x1.5	75	62	44	11	8	3.5	4-M4 x 20	3.5
KKB 9	M45x1.5	90	75	44	11	10	4	6-M4 x 20	3.5
KKB 10	M50x1.5	95	75	46	11	10	4	6-M4 x 20	3.5
KKB 11	M55x1.5	100	80	46	12	10	4	6-M5 x 25	6
KKB 12	M60x1.5	100	85	46	12	10	4	6-M5 x 25	6
KKB 12.1	M60x2.0	100	85	46	12	10	4	6-M5 x 25	6
KKB 13	M65x1.5	110	90	46	12	10	4	6-M5 x 25	6
KKB 13.1	M65x2.0	110	90	46	12	10	4	6-M5 x 25	6
KKB 14	M70x1.5	115	95	46	12	10	4	6-M5 x 25	6
KKB 14.1	M70x2.0	115	95	46	12	10	4	6-M5 x 25	6
KKB 15	M75x2.0	120	100	46	12	10	4	6-M5 x 25	6
KKB 16	M80x2.0	125	105	46	12	10	4	6-M6 x 25	8
KKB 17	M85x2.0	130	110	46	12	10	4	6-M6 x 25	8



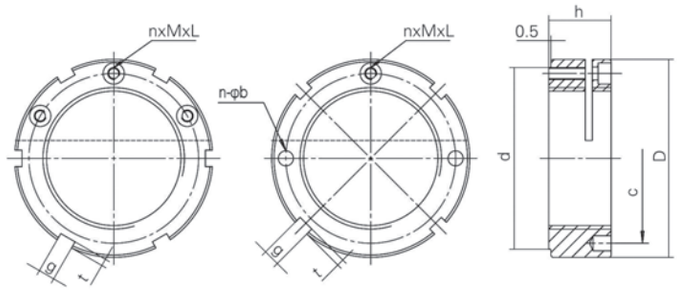


Tipo e Passo Type & Pitch	Dimensioni - Dimensions								Coppia Torque (NM)
	G (mm)	D (mm)	d (mm)	h (mm)	c (mm)	g (mm)	t (mm)	n-M x L (mm)	
KKB 18	M90x2.0	132	115	47	13	10	4	6-M6 x 25	8
KKB 19	M95x2.0	140	125	47	13	12	5	6-M6 x 25	8
KKB 20	M100x2.0	145	130	47	13	12	5	6-M6 x 25	8
KKB 21	M106x2.0	150	135	47	13	12	5	6-M6 x 25	8
KKB 22	M110x2.0	155	140	47	13	12	5	6-M6 x 25	8
KKB 23	M115x2.0	160	145	48	14	12	5	6-M6 x 25	8
KKB 24	M120x2.0	165	150	48	14	12	5	6-M6 x 25	8
KKB 25	M125x2.0	170	155	48	14	14	6	6-M6 x 25	8
KKB 26	M130x2.0	180	160	48	14	14	6	8-M6 x 25	8
KKB 28	M140x2.0	190	170	50	15	14	6	8-M6 x 25	8
KKB 30	M150x2.0	200	180	50	15	14	6	8-M6 x 25	8
KKB 32	M160x3.0	220	190	50	15	16	7	8-M8 x 30	18
KKB 34	M170x3.0	230	205	52	16	16	7	8-M8 x 30	18
KKB 36	M180x3.0	240	215	52	16	16	7	8-M8 x 30	18
KKB 38	M190x3.0	250	225	52	16	18	8	8-M8 x 30	18
KKB 40	M200x3.0	265	235	52	16	18	8	8-M8 x 30	18

- Per filetto sinistro inserire "L" (esempio KKB 20L) - For left thread nuts insert "L" (example KKB 20L)

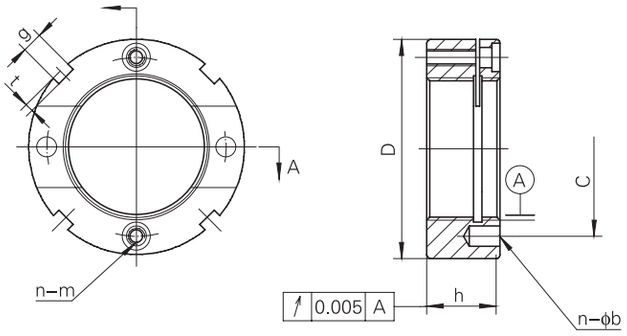


Tipo e Passo Type & Pitch	Dimensioni - Dimensions							Coppia Torque (NM)
	D (mm)	h (mm)	g (mm)	t (mm)	n-m (mm)	c (mm)	n-diam.b (mm)	
KKC M16x1,5	34	14	4	2	1-M4	24	2-diam.4	3.5
KKC M17x1,0	37	16	4	2	1-M4	26	2-diam.4	3.5
KKC M18x1,5	38	16	4	2	1-M4	28	2-diam.4	3.5
KKC M20x1,0	40	16	4	2	1-M4	30	2-diam.4	3.5
KKC M20x1,5	40	16	4	2	1-M4	30	2-diam.4	3.5
KKC M25x1,5	45	18	5	2	1-M4	35	2-diam.5	3.5
KKC M30x1,5	48	18	5	2	1-M4	39	2-diam.5	3.5
KKC M35x1,5	53	18	5	2	1-M4	44	2-diam.5	3.5
KKC M40x1,5	58	20	6	2.5	1-M4	49	2-diam.5	3.5
KKC M45x1,5	68	20	6	2.5	1-M4	57	2-diam.6	3.5
KKC M50x1,5	70	20	6	2.5	1-M4	60	2-diam.6	3.5
KKC M55x1,5	75	22	7	3	1-M4	65	2-diam.6	3.5
KKC M55x2,0	75	22	7	3	1-M4	65	2-diam.6	3.5
KKC M60x1,5	84	22	7	3	1-M5	72	2-diam.6	4.5
KKC M60x2,0	84	22	7	3	1-M5	72	2-diam.6	4.5
KKC M65x1,5	88	22	7	3	1-M5	77	2-diam.6	4.5
KKC M65x2,0	88	22	7	3	1-M5	77	2-diam.6	4.5
KKC M70x1,5	95	24	8	3.5	1-M5	82	2-diam.7	4.5
KKC M70x2,0	95	24	8	3.5	1-M5	82	2-diam.8	4.5
KKC M75x1,5	100	24	8	3.5	3-M5	87	2-diam.9	4.5
KKC M75x2,0	100	24	8	3.5	3-M5	87	2-diam.10	4.5
KKC M80x2,0	110	24	8	3.5	3-M6	95	2-diam.8	8
KKC M85x2,0	115	24	8	3.5	3-M6	100	2-diam.8	8
KKC M90x2,0	120	26	10	4	3-M6	105	2-diam.8	8

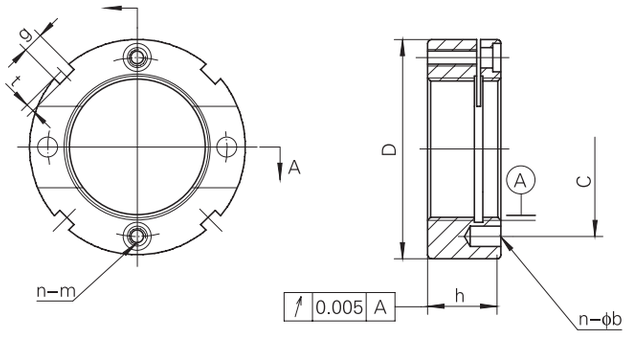


Tipo e Passo Type & Pitch	Dimensioni - Dimensions							Coppia Torque (NM)
	D (mm)	h (mm)	g (mm)	t (mm)	n-m (mm)	c (mm)	n-diam.b (mm)	
KKC M95x2,0	125	26	10	4	3-M6	110	2-diam.8	8
KKC M100x2,0	130	26	10	4	3-M6	115	2-diam.8	8
KKC M105x2,0	135	28	10	4	3-M6	120	2-diam.8	8
KKC M110x2,0	140	28	10	4	3-M6	125	2-diam.8	8
KKC M115x2,0	145	28	10	4	3-M6	130	2-diam.8	8
KKC M120x2,0	155	30	12	5	3-M6	136	2-diam.8	8
KKC M125x2,0	160	30	12	5	3-M6	140	2-diam.8	8
KKC M130x2,0	165	30	12	5	3-M6	148	2-diam.8	8
KKC M135x2,0	170	32	12	5	3-M6	153	2-diam.8	8
KKC M140x2,0	180	32	12	5	3-M6	160	2-diam.10	8
KKC M145x2,0	185	32	12	5	3-M6	165	2-diam.10	8
KKC M150x2,0	190	32	12	5	3-M6	170	2-diam.10	8
KKC M155x2,0	195	34	14	6	3-M8	175	2-diam.10	18
KKC M160x3,0	205	34	14	6	3-M8	178	2-diam.10	18
KKC M165x3,0	210	34	14	6	3-M8	184	2-diam.10	18
KKC M170x3,0	215	34	14	6	3-M8	193	2-diam.10	18
KKC M180x3,0	230	36	16	7	3-M8	205	2-diam.10	18
KKC M190x3,0	240	36	16	7	3-M8	215	2-diam.10	18
KKC M200x3,0	245	38	16	7	3-M8	223	2-diam.10	18

- Per filetto sinistro inserire "L" (esempio KKC M20x1,5L) - For left thread nuts insert "L" (example KKC M20x1,5L)

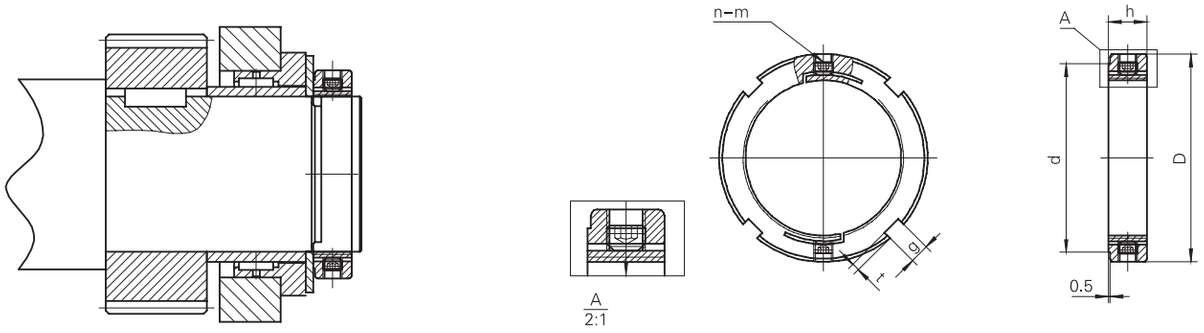


Tipo e Passo Type & Pitch	Dimensioni - Dimensions							Coppia Torque (NM)
	D (mm)	h (mm)	g (mm)	t (mm)	n-m (mm)	c (mm)	n-diam.b (mm)	
KKD M16x1,5	34	14	4	2	2-M4	24	2-diam.4	3.5
KKD M17x1,0	37	16	4	2	2-M4	26	2-diam.4	3.5
KKD M18x1,5	38	16	4	2	2-M4	28	2-diam.4	3.5
KKD M20x1,0	40	16	4	2	2-M4	30	2-diam.4	3.5
KKD M20x1,5	40	16	4	2	2-M4	30	2-diam.4	3.5
KKD M25x1,5	45	18	5	2	2-M4	35	2-diam.5	3.5
KKD M30x1,5	48	18	5	2	2-M4	39	2-diam.5	3.5
KKD M35x1,5	53	18	5	2	2-M4	44	2-diam.5	3.5
KKD M40x1,5	58	20	6	2.5	2-M4	49	2-diam.5	3.5
KKD M45x1,5	68	20	6	2.5	2-M4	57	2-diam.6	3.5
KKD M50x1,5	70	20	6	2.5	2-M4	60	2-diam.6	3.5
KKD M55x1,5	75	22	7	3	2-M4	65	2-diam.6	3.5
KKD M55x2,0	75	22	7	3	2-M4	65	2-diam.6	3.5
KKD M60x1,5	84	22	7	3	2-M5	72	2-diam.6	4.5
KKD M60x2,0	84	22	7	3	2-M5	72	2-diam.6	4.5
KKD M65x1,5	88	22	7	3	2-M5	77	2-diam.6	4.5
KKD M65x2,0	88	22	7	3	2-M5	77	2-diam.6	4.5
KKD M70x1,5	95	24	8	3.5	2-M5	82	2-diam.7	4.5
KKD M70x2,0	95	24	8	3.5	2-M5	82	2-diam.8	4.5
KKD M75x1,5	100	24	8	3.5	6-M5	87	2-diam.9	4.5
KKD M75x2,0	100	24	8	3.5	6-M5	87	2-diam.10	4.5
KKD M80x2,0	110	24	8	3.5	6-M6	95	2-diam.8	8.0
KKD M85x2,0	115	24	8	3.5	6-M6	100	2-diam.8	8.0
KKD M90x2,0	120	26	10	4	6-M6	105	2-diam.8	8.0

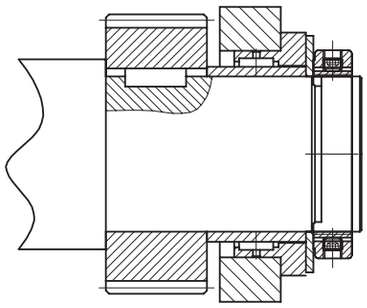


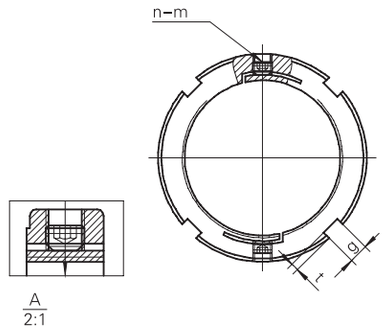
Tipo e Passo Type & Pitch	Dimensioni - Dimensions							Coppia Torque (NM)
	D (mm)	h (mm)	g (mm)	t (mm)	n-m (mm)	c (mm)	n-diam.b (mm)	
KKD M95x2,0	125	26	10	4	6-M6	110	2-diam.8	8.0
KKD M100x2,0	130	26	10	4	6-M6	115	2-diam.8	8.0
KKD M105x2,0	135	28	10	4	6-M6	120	2-diam.8	8.0
KKD M110x2,0	140	28	10	4	6-M6	125	2-diam.8	8.0
KKD M115x2,0	145	28	10	4	6-M6	130	2-diam.8	8.0
KKD M120x2,0	155	30	12	5	6-M6	136	2-diam.8	8.0
KKD M125x2,0	160	30	12	5	6-M6	140	2-diam.8	8.0
KKD M130x2,0	165	30	12	5	6-M6	148	2-diam.8	8.0
KKD M135x2,0	170	32	12	5	6-M6	153	2-diam.8	8.0
KKD M140x2,0	180	32	12	5	6-M6	160	2-diam.10	8.0
KKD M145x2,0	185	32	12	5	6-M6	165	2-diam.10	8.0
KKD M150x2,0	190	32	12	5	6-M6	170	2-diam.10	8.0
KKD M155x2,0	195	34	14	6	6-M8	175	2-diam.10	18.0
KKD M160x3,0	205	34	14	6	6-M8	178	2-diam.10	18.0
KKD M165x3,0	210	34	14	6	6-M8	184	2-diam.10	18.0
KKD M170x3,0	215	34	14	6	6-M8	193	2-diam.10	18.0
KKD M180x3,0	230	36	16	7	6-M8	205	2-diam.10	18.0
KKD M190x3,0	240	36	16	7	6-M8	215	2-diam.10	18.0
KKD M200x3,0	245	38	16	7	6-M8	223	2-diam.10	18.0

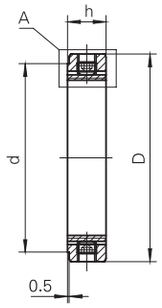
- Per filetto sinistro inserire "L" (esempio KKD M20x1,5L) - For left thread nuts insert "L" (example KKD M20x1,5L)



Tipo e Passo Type & Pitch	Dimensioni - Dimensions						Coppia Torque (NM)
	D (mm)	h (mm)	g (mm)	t (mm)	d (mm)	n-m (mm)	
KTR M22x1,5	35	12	4	2	30	2-M6	8.0
KTR M25x1,5	40	12	5	2	35	2-M6	8.0
KTR M30x1,5	45	12	5	2	40	2-M6	8.0
KTR M32x1,5	46	12	5	2	41	2-M6	8.0
KTR M35x1,5	50	12	5	2	45	2-M6	8.0
KTR M38x1,5	52	12	5	2	47	2-M6	8.0
KTR M40x1,5	55	12	6	2.5	49	2-M6	8.0
KTR M42x1,5	56	12	6	2.5	50	2-M6	8.0
KTR M45x1,5	60	12	6	2.5	54	2-M6	8.0
KTR M50x1,5	65	12	6	2.5	59	2-M6	8.0
KTR M52x1,5	67	12	6	2.5	61	2-M6	8.0
KTR M55x2,0	75	15	7	3	68	2-M8	18.0
KTR M60x2,0	80	15	7	3	73	2-M8	18.0
KTR M65x2,0	85	15	7	3	78	2-M8	18.0
KTR M70x2,0	90	15	8	3.5	82	2-M8	18.0
KTR M75x2,0	95	15	8	3.5	87	2-M8	18.0
KTR M80x2,0	105	15	8	3.5	97	2-M8	18.0
KTR M85x2,0	110	15	8	3.5	102	2-M8	18.0
KTR M90x2,0	115	15	10	4	106	2-M8	18.0
KTR M95x2,0	120	15	10	4	111	2-M8	18.0
KTR M100x2,0	125	15	10	4	116	2-M8	18.0

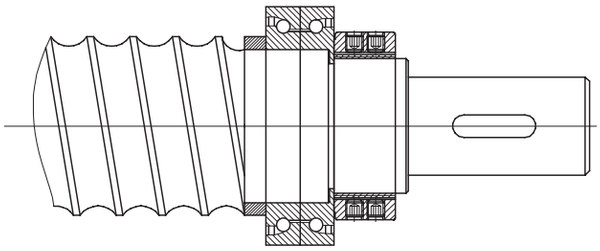


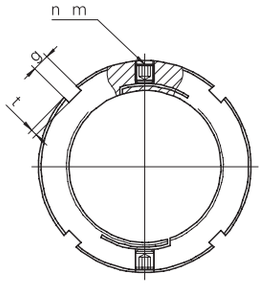


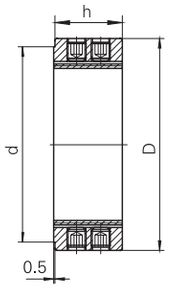


Tipo e Passo Type & Pitch	Dimensioni - Dimensions						Coppia Torque (NM)
	D (mm)	h (mm)	g (mm)	t (mm)	d (mm)	n-m (mm)	
KTR M105x2,0	130	15	12	5	119	2-M8	18.0
KTR M110x2,0	135	15	12	5	124	2-M8	18.0
KTR M115x2,0	140	15	12	5	129	2-M8	18.0
KTR M120x2,0	145	15	12	5	134	2-M8	18.0
KTR M125x2,0	150	15	12	5	139	2-M8	18.0
KTR M130x2,0	155	15	12	5	144	2-M8	18.0
KTR M135x2,0	165	20	14	6	152	2-M10	35.0
KTR M140x2,0	170	20	14	6	157	2-M10	35.0
KTR M145x2,0	175	20	14	6	162	2-M10	35.0
KTR M150X2,0	180	20	14	6	167	2-M10	35.0

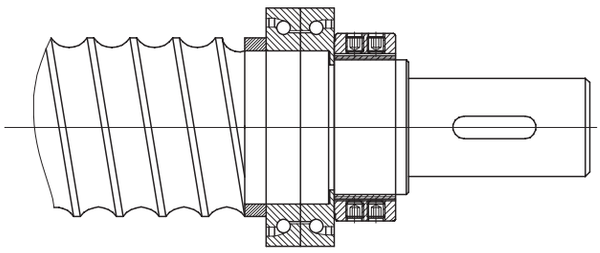
- Per filetto sinistro inserire "L" (esempio KTR M22x1,5L) - For left thread nuts insert "L" (example KTR M22x1,5L)

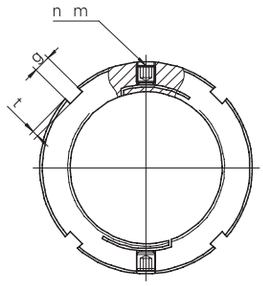


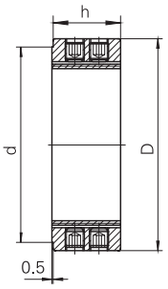




Tipo e Passo Type & Pitch	Dimensioni - Dimensions						Coppia Torque (NM)
	D (mm)	h (mm)	g (mm)	t (mm)	d (mm)	n-m (mm)	
KTRA M20x1,5	42	16	5	2	37	2-M8	18.0
KTRA M22x1,5	44	16	5	2	39	2-M8	18.0
KTRA M25x1,5	47	16	5	2	42	2-M8	18.0
KTRA M30x1,5	52	16	5	2	47	2-M8	18.0
KTRA M32x1,5	55	16	5	2	50	2-M8	18.0
KTRA M35x1,5	60	16	5	2	55	2-M8	18.0
KTRA M38x1,5	62	16	5	2	57	2-M8	18.0
KTRA M40x1,5	65	16	6	2.5	59	2-M8	18.0
KTRA M42x1,5	68	16	6	2.5	62	2-M8	18.0
KTRA M45x1,5	70	16	6	2.5	64	2-M8	18.0
KTRA M50x1,5	72	28	6	2.5	66	4-M8	18.0
KTRA M55x1,5	78	28	7	3	71	4-M8	18.0
KTRA M55x2,0	78	28	7	3	71	4-M8	18.0
KTRA M60x1,5	83	28	7	3	76	4-M8	18.0
KTRA M60x2,0	83	28	7	3	76	4-M8	18.0
KTRA M65x1,5	88	28	7	3	81	4-M8	18.0
KTRA M65x2,0	88	28	7	3	81	4-M8	18.0
KTRA M70x1,5	96	28	8	3.5	88	4-M8	18.0
KTRA M70x2,0	96	28	8	3.5	88	4-M8	18.0
KTRA M75x1,5	104	28	8	3.5	96	4-M8	18.0
KTRA M75x2,0	104	28	8	3.5	96	4-M8	18.0
KTRA M80x2,0	110	32	8	3.5	102	4-M10	35.0
KTRA M85x2,0	115	32	8	3.5	107	4-M10	35.0

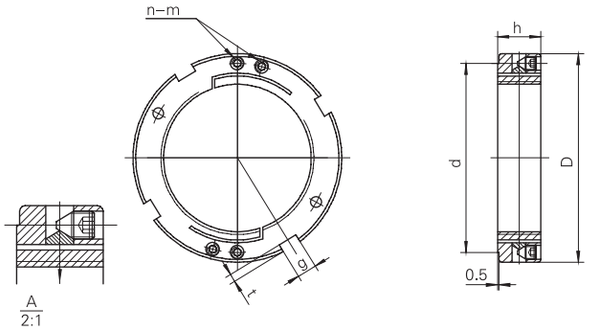




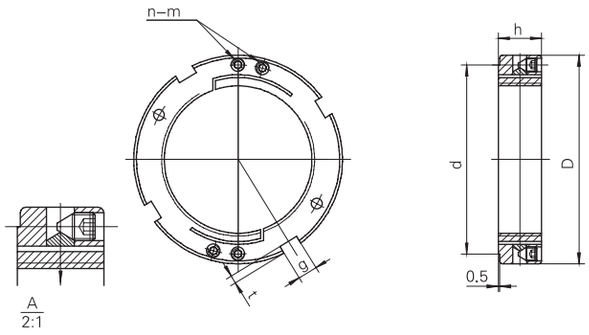


Tipo e Passo Type & Pitch	Dimensioni - Dimensions						Coppia Torque (NM)
	D (mm)	h (mm)	g (mm)	t (mm)	d (mm)	n-m (mm)	
KTRA M90x1,5	120	32	10	4	111	4-M10	35.0
KTRA M90x2,0	120	32	10	4	111	4-M10	35.0
KTRA M95x2,0	125	32	10	4	116	4-M10	35.0
KTRA M100x2,0	130	32	10	4	121	4-M10	35.0
KTRA M105x2,0	135	32	12	5	124	4-M10	35.0
KTRA M110x2,0	138	32	12	5	127	4-M10	35.0
KTRA M115x2,0	145	32	12	5	134	4-M10	35.0
KTRA M120x2,0	148	32	12	5	137	4-M10	35.0
KTRA M125x2,0	155	32	12	5	144	4-M10	35.0
KTRA M130x2,0	158	32	12	5	147	4-M10	35.0
KTRA M135x2,0	165	32	14	6	152	4-M10	35.0
KTRA M140x2,0	168	32	14	6	155	4-M10	35.0
KTRA M145x2,0	175	32	14	6	162	4-M10	35.0
KTRA M150x2,0	178	32	14	6	165	4-M10	35.0
KTRA M155x3,0	185	32	14	6	172	4-M10	35.0
KTRA M160x3,0	188	32	14	6	175	4-M10	35.0
KTRA M165x3,0	195	32	14	6	182	4-M10	35.0
KTRA M170x3,0	198	32	14	6	185	4-M10	35.0
KTRA M180x3,0	210	32	14	6	197	4-M10	35.0
KTRA M190x3,0	220	32	14	6	207	4-M10	35.0
KTRA M200x3,0	230	32	14	6	217	4-M10	35.0

- Per filetto sinistro inserire "L" (esempio KTRA M22x1,5L) - For left thread nuts insert "L" (example KTRA M22x1,5L)

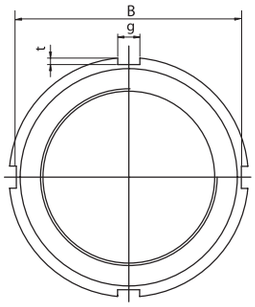


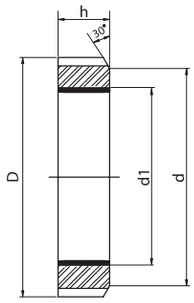
Tipo e Passo Type & Pitch	Dimensioni - Dimensions						Coppia Torque (NM)
	D (mm)	d (mm)	h (mm)	g (mm)	t (mm)	n-m (mm)	
KFE M22x1,5	39	34	15	4	2	4-M4	3.5
KFE M25x1,5	43	38	15	5	2	4-M5	4.5
KFE M30x1,5	48	43	15	5	2	4-M5	4.5
KFE M32x1,5	50	45	15	5	2	4-M5	4.5
KFE M35x1,5	53	48	15	5	2	4-M5	4.5
KFE M38x1,5	56	51	15	5	2	4-M5	4.5
KFE M40x1,5	58	52	15	6	2.5	4-M5	4.5
KFE M42x1,5	62	56	15	6	2.5	4-M5	4.5
KFE M45x1,5	65	59	15	6	2.5	4-M5	4.5
KFE M50x1,5	69	63	15	6	2.5	4-M5	4.5
KFE M52x1,5	72	66	15	6	2.5	4-M5	4.5
KFE M55x2,0	75	68	15	7	3	4-M5	4.5
KFE M60x2,0	80	73	20	7	3	4-M5	4.5
KFE M65x2,0	85	78	20	7	3	4-M5	4.5
KFE M70x2,0	90	82	20	8	3.5	4-M5	4.5
KFE M75x2,0	95	87	20	8	3.5	4-M5	4.5
KFE M80x2,0	105	97	20	8	3.5	4-M6	8.0
KFE M85x2,0	110	102	20	8	3.5	4-M6	8.0
KFE M90x2,0	115	107	20	10	4	4-M6	8.0
KFE M95x2,0	120	111	20	10	4	4-M6	8.0
KFE M100x2,0	125	117	20	10	4	4-M6	8.0
KFE M105x2,0	130	119	20	12	5	4-M6	8.0
KFE M110x2,0	135	124	20	12	5	4-M6	8.0



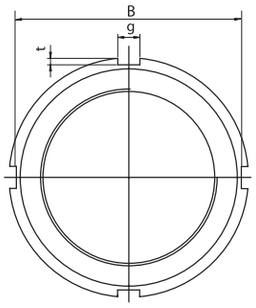
Tipo e Passo Type & Pitch	Dimensioni - Dimensions						Coppia Torque (NM)
	D (mm)	d (mm)	h (mm)	g (mm)	t (mm)	n-m (mm)	
KFE M115x2,0	140	129	20	12	5	4-M6	8.0
KFE M120x2,0	145	134	20	12	5	4-M6	8.0
KFE M125x2,0	150	139	20	12	5	4-M6	8.0
KFE M130x2,0	155	144	20	12	5	4-M6	8.0
KFE M135x2,0	165	152	22	14	6	4-M8	18.0
KFE M140x2,0	170	157	22	14	6	4-M8	18.0
KFE M145x2,0	175	162	22	14	6	4-M8	18.0
KFE M150x2,0	180	167	22	14	6	4-M8	18.0

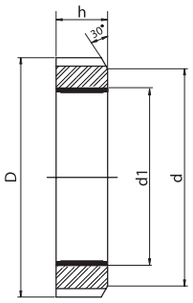
- Per filetto sinistro inserire "L" (esempio KFE M22x1,5L) - For left thread nuts insert "L" (example KFE M22x1,5L)





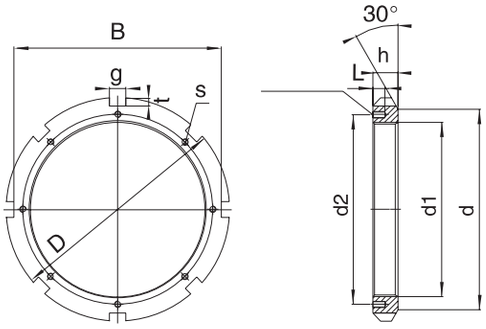
Tipo Type	Filetto e Passo Thread and Spacing	Dimensioni - Dimensions						
		D (mm)	d (mm)	d1 (mm)	B (mm)	h (mm)	g (mm	t (mm
KM 00	M 10 x 0,75	18	13.5	10.5	14	4	3	2
KM 01	M 12 x 1,0	22	17	12.5	18	4	3	2
KM 02	M 15 x 1,0	25	20	15.5	21	5	4	2
KM 03	M 17 x 1,0	28	23	17.5	24	5	4	2
KM 04	M 20 x 1,0	32	26	20.5	28	6	4	2
KM 05	M 25 x 1,5	38	32	25.8	34	7	5	2
KM 06	M 30 x 1,5	45	38	30.8	41	7	5	2
KM 07	M 35 x 1,5	52	44	35.8	48	8	5	2
KM 08	M 40 x 1,5	58	50	40.8	53	9	6	2.5
KM 09	M 45 x 1,5	65	56	45.8	60	10	6	2.5
KM 10	M 50 x 1,5	70	61	50.8	65	11	6	2.5
KM 11	M 55 x 2,0	75	67	56	69	11	7	3
KM 12	M 60 x 2,0	80	73	61	74	11	7	3
KM 13	M 65 x 2,0	85	78	66	79	12	7	3
KM 14	M 70 x 2,0	92	84	71	85	12	8	3.5
KM 15	M 75 x 2,0	98	90	76	91	13	8	3.5
KM 16	M 80 x 2,0	105	95	81	98	15	8	3.5
KM 17	M 85 x 2,0	110	102	86	103	16	8	3.5
KM 18	M 90 x 2,0	120	108	91	112	16	10	4
KM 19	M 95 x 2,0	125	113	96	117	17	10	4
KM 20	M 100 x 2,0	130	120	101	122	18	10	4
KM 21	M 105 x 2,0	140	126	106	130	18	12	5
KM 22	M 110 x 2,0	145	133	111	135	19	12	5
KM 23	M 115 x 2,0	150	137	116	140	19	12	5





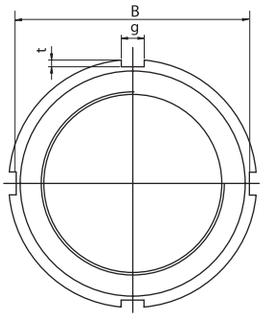
Tipo Type	Filetto e Passo Thread and Spacing	Dimensioni - Dimensions						
		D (mm)	d (mm)	d1 (mm)	B (mm)	h (mm)	g (mm	t (mm
KM 24	M 120 x 2,0	155	138	121	145	20	12	5
KM 25	M 125 x 2,0	160	148	126	150	21	12	5
KM 26	M 130 x 2,0	165	149	131	155	21	12	5
KM 27	M 135 x 2,0	175	160	136	163	22	14	6
KM 28	M 140 x 2,0	180	160	141	168	22	14	6
KM 29	M 145 x 2,0	190	172	146	178	24	14	6
KM 30	M 150 x 2,0	195	172	151	183	24	14	6
KM 31	M 155 x 2,0	200	182	156.5	186	25	16	7
KM 32	M 160 x 3,0	210	182	161.5	196	25	16	7
KM 33	M 165 x 3,0	210	193	166.5	196	26	16	7
KM 34	M 170 x 3,0	220	193	171.5	206	26	16	7
KM 36	M 180 X 3,0	230	203	181.5	214	27	18	8
KM 38	M 190 x 3,0	240	214	191.5	224	28	18	8
KM 40	M 200 x 3,0	250	226	201.5	234	29	18	8

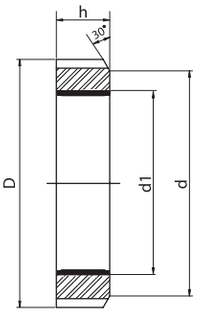
- Per filetto sinistro inserire "L" (esempio KM 22L) - For left thread nuts insert "L" (example KM 22L)



Tipo Type	Filetto e Passo Thread and Spacing	Dimensioni - Dimensions									
		d (mm)	D (mm)	h (mm)	g (mm)	t (mm)	B (mm	d1 (mm	L (mm	S	d2 (mm
KML 44	Tr 220x4	242	260	30	20	9	242	222	12	M6x1,0	229
KML 48	Tr 240x4	270	290	34	20	10	270	242	15	M8x1,25	253
KML 52	Tr 260x4	290	310	34	20	10	290	262	15	M8x1,25	273
KML 56	Tr 280x4	310	330	38	24	10	310	282	15	M8x1,25	293
KML 60	Tr 300x4	336	360	42	24	12	3336	302	15	M8x1,25	316
KML 64	Tr 320x5	356	380	42	24	12	356	322.5	15	M8x1,25	335
KML 68	Tr 340x5	376	400	45	24	12	376	342.5	15	M8x1,25	355
KML 72	Tr 360x5	394	420	45	28	13	394	362.5	15	M8x1,25	374
KML 76	Tr 380x5	422	450	48	28	14	422	382.5	18	M10x1,5	398
KML 80	Tr 400x5	442	470	52	28	14	442	402.5	18	M10x1,5	418
KML 84	Tr 420x5	462	490	52	32	14	462	422.5	18	M10x1,5	438
KML 88	Tr 440x5	490	520	60	32	15	490	442.5	21	M12x1,75	462
KML 92	Tr 460x5	510	540	60	32	15	510	462.5	21	M12x1,75	482
KML 96	Tr 480x5	530	560	60	36	15	530	482.5	21	M12x1,75	502
KML 100	Tr 500x5	550	580	68	36	15	550	502.5	21	M12x1,75	522

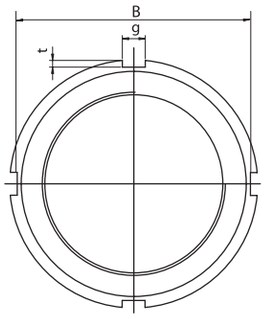
- Per filetto sinistro inserire "L" (esempio KML 52L) - For left thread nuts insert "L" (example KML 52L)

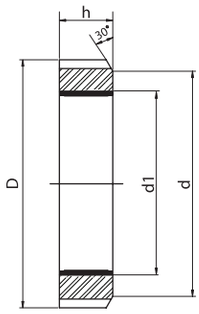




Tipo Type	Filetto e Passo Thread and Spacing	Dimensioni - Dimensions						
		D (mm)	d (mm)	d1 (mm)	B (mm)	h (mm)	g (mm	t (mm
HN 42	Tr 210x4,0	270	238	212	250	30	20	10
HN 44	Tr 220x4,0	280	250	222	260	32	20	10
HN 48	Tr 240x4,0	300	270	242	280	34	20	10
HN 52	Tr 260x4,0	330	300	262	306	36	24	12
HN 58	Tr 290x4,0	370	330	292	346	40	24	12
HN 62	Tr 310x5,0	390	350	312.5	366	42	24	12
HN 66	Tr 330x5,0	420	380	332.5	390	52	28	15
HN 70	Tr 350x5,0	450	410	352.5	420	55	28	15
HN 74	Tr 370x5,0	470	430	372.5	440	58	28	15
HN 80	Tr 400x5,0	520	470	402.5	484	62	32	18
HN 84	Tr 420x5,0	540	490	422.5	504	70	32	18
HN 88	Tr 440x5,0	560	510	442.5	520	70	36	20
HN 92	Tr 460x5,0	580	540	462.5	540	75	36	20
HN 96	Tr 480x5,0	620	560	482.5	580	75	36	20
HN 102	Tr 510x6,0	650	590	513	604	80	40	23
HN 106	Tr 530x6,0	670	610	533	624	80	40	23
HN 110	Tr 550x6,0	700	640	553	654	80	40	23

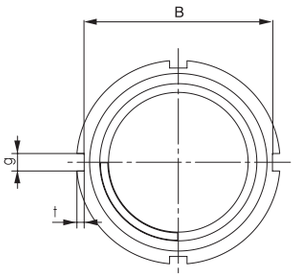
- Per filetto sinistro inserire "L" (esempio HN 52L) - For left thread nuts insert "L" (example HN 52L)

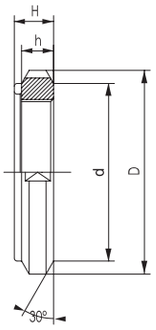




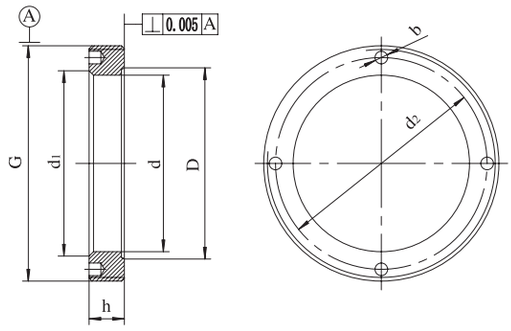
Tipo Type	Filetto e Passo Thread and Spacing	Dimensioni - Dimensions						
		D (mm)	d (mm)	d1 (mm)	B (mm)	h (mm)	g (mm	t (mm
HNL 41	Tr 205x4,0	250	232	207	234	30	18	8
HNL 43	Tr 215x4,0	260	242	217	242	30	20	9
HNL 47	Tr 235x4,0	280	262	237	262	34	20	9
HNL 52	Tr 260x4,0	310	290	262	290	34	20	10
HNL 56	Tr 280x4,0	330	310	282	310	38	24	10
HNL 60	Tr 300x4,0	360	336	302	336	42	24	12
HNL 64	Tr 320x5,0	380	356	322.5	356	42	24	12
HNL 69	Tr 345x5,0	410	384	347.5	384	45	28	13
HNL 73	Tr 365x5,0	430	404	367.5	404	48	28	13
HNL 77	Tr 385x5,0	450	422	387.5	422	48	28	14
HNL 82	Tr 410x5,0	480	452	412.5	452	52	32	14
HNL 86	Tr 430x5,0	500	472	432.5	472	52	32	14
HNL 90	Tr 450x5,0	520	490	452.5	490	60	32	15
HNL 94	Tr 470x5,0	540	510	472.5	510	60	32	15
HNL 98	Tr 490x5,0	580	550	492.5	550	60	36	15
HNL 104	Tr 520x6,0	600	570	523	570	68	36	15
HNL 108	Tr 540x6,0	630	590	543	590	68	40	20

- Per filetto sinistro inserire "L" (esempio HNL 52L) - For left thread nuts insert "L" (example HNL 52L)



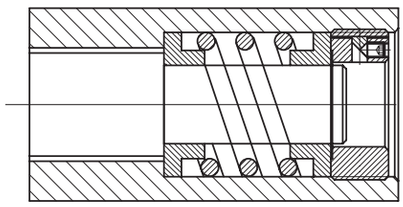


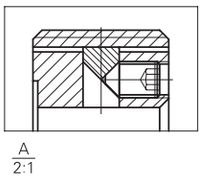
Tipo Type	Filetto e Passo Thread and Spacing	Dimensioni - Dimensions						
		D (mm)	d (mm)	d1 (mm)	B (mm)	h (mm)	g (mm	t (mm
ANT 00	M 10x0,75	18	13.5	14	4	5.2	3	2
ANT 01	M 12x1,0	22	17	18	4	5.4	3	2
ANT 02	M 15x1,0	25	21	21	5	6.5	4	2
ANT 03	M 17x1,0	28	24	24	5	6.4	4	2
ANT 04	M 20x1,0	32	26	28	6	7.7	4	2
ANT 05	M 25x1,5	38	32	34	7	9.1	5	2
ANT 06	M 30x1,5	45	38	41	7	9.1	5	2
ANT 07	M 35x1,5	52	44	48	8	10.2	5	2
ANT 08	M 40x1,5	58	50	53	9	11.2	6	2.5
ANT 09	M 45x1,5	65	56	60	10	12.5	6	2.5
ANT 10	M 50x1,5	70	61	65	11	13.5	6	2.5
ANT 11	M 55x2,0	75	67	69	11	13.5	7	3
ANT 12	M 60x2,0	80	73	74	11	13.5	7	3
ANT 13	M 65x2,0	85	79	79	12	15	7	3
ANT 14	M 70x2,0	92	85	85	12	15	8	3.5
ANT 15	M 75x2,0	98	90	91	13	15.8	8	3.5
ANT 16	M 80x2,0	105	95	98	15	18.6	8	3.5
ANT 17	M 85x2,0	110	102	103	16	19.2	8	3.5
ANT 18	M 90x2,0	120	108	112	16	20.3	10	4
ANT 19	M 95x2,0	125	113	117	17	21.3	10	4
ANT 20	M 100x2,0	130	120	122	18	22.3	10	4

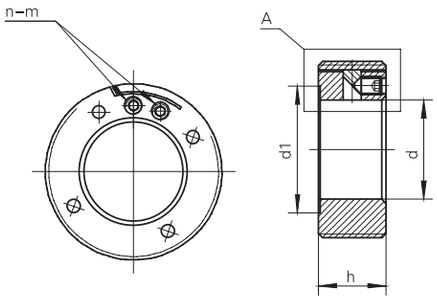


Tipo e Passo Type & Pitch	Dimensioni - Dimensions							Carico Assiale Axial Load (KN)
	d (mm)	D (mm)	G (mm)	d2 (mm)	b (mm)	h (mm)	d1 (mm)	
ND M40x1,5	26	28	M40x1,5	31	4.3	9	27	45
ND M50x1,5	36	41	M50x1,5	42.5	4.3	10	37.5	65
ND M55x1,5	40	45	M55x1,5	47	4.3	10	42	77
ND M70x1,5	50	56	M70x1,5	59.5	4.3	12	52	100
ND M80x1,5	60	65	M80x1,5	72	4.3	12	63	130
ND M85x1,5	68	72	M85x1,5	76	4.3	14	69	130
ND M95x2,0	76	82	M95x2,0	84.5	6.3	14	79.5	150
ND M110x2,0	76	92	M110x2,0	90	6.3	14	79.5	190
ND M120x2,0	99	101	M120x2,0	106	6.3	14	103	210
ND M130x2,0	99	110	M130x2,0	110	6.3	14	103	220
ND M160x2,0	132	134	M160x3,0	148	6.3	18	137.3	340
ND M190x3,0	162	167	M190x3,0	176	6.3	18	166	440

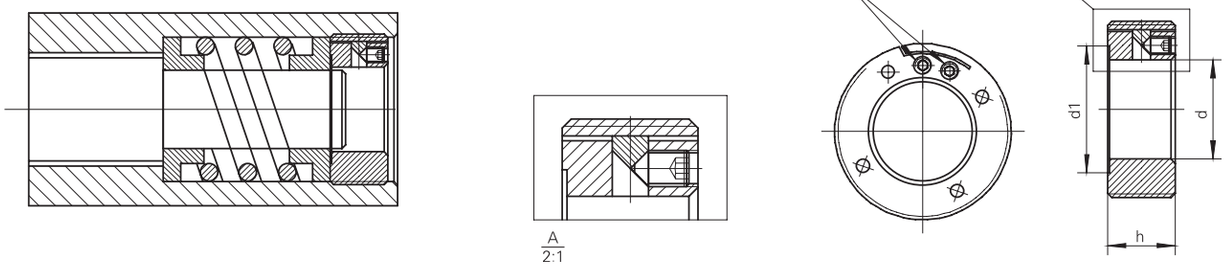
- Per filetto sinistro inserire "L" (esempio ND M70x1,5L) - For left thread nuts insert "L" (example ND M70x1,5L)





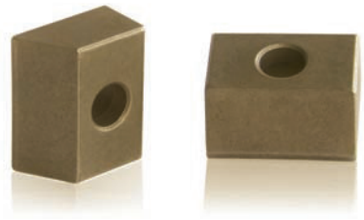


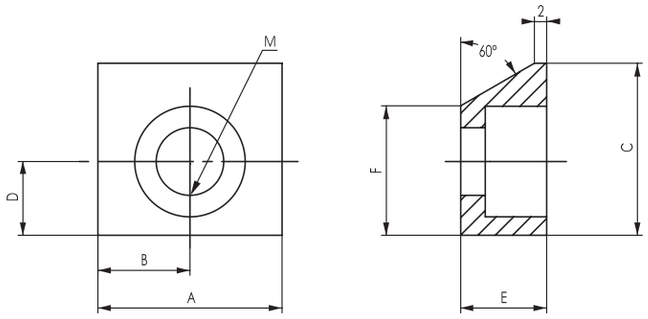
Tipo e Passo Type & Pitch	Dimensioni - Dimensions					Coppia Torque (NM)	Carico Assiale Axial Load (KN)
	d (mm)	b (mm)	h (mm)	d1 (mm)	n-m (mm)		
NDA M28x1,5	12	3.2	15	16	1-M4	3.5	97
NDA M30x1,5	14	3.2	15	20	1-M4	3.5	104
NDAM32x1,5	15	3.2	15	20	1-M4	3.5	120
NDA M34x1,5	18	3.2	15	22	1-M4	3.5	127
NDA M37x1,5	20	3.2	15	26	1-M4	3.5	139
NDA M39x1,5	22	3.2	15	28	1-M4	3.5	147
NDA M40x1,5	23	3.2	15	29	1-M4	3.5	153
NDA M42x1,5	24	3.2	15	31	2-M4	3.5	161
NDA M44x1,5	26	3.2	15	32	2-M4	3.5	169
NDA M46x1,5	28	3.2	15	33	2-M4	3.5	179
NDA M47x1,5	29	3.2	15	34	2-M4	3.5	183
NDA M49x1,5	31	3.2	15	34	2-M4	3.5	188
NDA M50x1,5	32	3.2	15	35	2-M4	3.5	174
NDA M54x1,5	36	3.2	15	40	2-M4	3.5	188
NDA M57x1,5	39	3.2	15	44	2-M4	3.5	198
NDA M60x1,5	42	3.2	15	50	2-M4	3.5	209
NDA M63x1,5	43	4.3	15	46	2-M5	4.5	220
NDA M64x1,5	44	4.3	15	46	2-M5	4.5	223
NDA M67x1,5	47	4.3	15	47	2-M5	4.5	237
NDA M70x1,5	48	4.3	15	48	2-M5	4.5	248
NDA M74x1,5	54	4.3	15	57	2-M5	4.5	263
NDA M77x1,5	55	4.3	15	64	2-M5	4.5	275
NDA M80x1,5	55	4.3	20	55	2-M5	4.5	385
NDA M82x1,5	62	4.3	20	68	2-M5	4.5	395
NDA M87x1,5	67	4.3	20	76	2-M5	4.5	421



Tipo e Passo Type & Pitch	Dimensioni - Dimensions					Coppia Torque (NM)	Carico Assiale Axial Load (KN)
	d (mm)	b (mm)	h (mm)	d1 (mm)	n-m (mm)		
NDA M92x1,5	72	4.3	20	80	2-M5	4.5	450
NDA M97x1,5	77	4.3	20	85	2-M5	4.5	475
NDA M100x2,0	80	4.3	20	90	2-M5	4.5	488
NDA M102x2,0	82	4.3	20	91	2-M5	4.5	498
NDA M107x2,0	82	5.2	20	92	2-M6	8.0	523
NDA M112x2,0	87	5.2	20	100	2-M6	8.0	547
NDA M117x2,0	92	5.2	20	101	2-M6	8.0	576
NDA M122x2,0	97	5.2	20	107	2-M6	8.0	602
NDA M125x2,0	100	5.2	20	110	2-M6	8.0	621
NDA M127x2,0	102	5.2	20	110	2-M6	8.0	631
NDA M132x2,0	107	5.2	20	116	2-M6	8.0	662
NDA M142x2,0	117	5.2	20	118	2-M6	8.0	715
NDA M147x2,0	122	5.2	20	133	2-M6	8.0	740
NDA M152x2,0	127	5.2	20	138	2-M6	8.0	768
NDA M160x2,0	135	5.2	20	145	2-M6	8.0	808

- Per filetto sinistro inserire "L" (esempio NDA M70x1,5L) - For left thread nuts insert "L" (example NDA M70x1,5L)





Tipo e Passo Type & Pitch	Dimensioni - Dimensions						
	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	M (mm)
Z-0	20	10	16	7	9.4	11.7	M6xP1.0
Z-1	20	10	16	7	9.4	11.7	d.5.5xd.9.5x5.4
Z-2	25	12.5	20	8	10.5	15.1	d.6.6xd.11x6.5
Z-3	30	15	24	9	13.6	17.3	d.9xd.14x8.5
Z-4	30	15	28	11	14	20	d.11xd.18x10
Z-5	40	20	35	11.5	20	23.5	d.11xd.18x11

KSB	INA	SKF	NADELLA	MONDIAL	ITALCUSCINETTI	ROMANI COMPONENTS
KIR	ZM	KMK	LR	HIR	YSR	NR
KIF	-	-	-	HIF	YSF	NF
KIA	-	-	-	HIA	YSA	NA
KIK	-	-	-	HIK	YSK	NK
KMT	-	KMT	-	-	-	NFA
KMTA	-	KMTA	-	-	-	NFB
KFE	-	-	LFE	-	-	TA
KM	-	KM	-	-	KM	AN
KML	-	KML	-	-	-	ANL
HM	-	HM	-	-	-	HN
HML	-	HML	-	-	-	HNL