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INSTALLAZIONE

- Il dispositivo viene montato sull'albero di trasmissione e fissato tramite le sei viti (B) ed un calettatore interno al dispositivo stesso.
- A garanzia di funzionamento ottimale, installare il dispositivo nelle prime adiacenze del probabile punto di "collisione", oppure direttamente sul componente della trasmissione, da salvaguardare.
- L'organo di trasmissione (puleggia, ingranaggio, ingranaggio per catena) va montato tramite viti (non fornite) nei sei fori (C).

REGOLAZIONE DELLA COPPIA

- La regolazione della coppia (nelle versioni meccaniche) avviene ruotando la ghiera (D) utilizzando una chiave a compasso all'interno dei fori (E) dopo avere allentato la vite di bloccaggio (F) della ghiera. Sul corpo mobile sono riportate tacche di riferimento (a 30°) per determinare la coppia in funzione dei diagrammi allegati. Per valori di coppia elevati, i limitatori sono equipaggiati con due molle (G) anziché una (H).
- Nelle versioni pneumatiche, la regolazione della coppia avviene agendo sulla pressione dell'aria compressa, inviata al limitatore (vedi diagrammi allegati).

NOTA - I limitatori di coppia della serie "senza gioco", garantiscono una caduta istantanea ed estremamente precisa, in caso di sovraccarico per le caratteristiche di curva negativa delle molle a tazza.

Per effettuare la **regolazione della coppia**, procedere come segue:

- Ruotare la ghiera (D) fino a fare collimare una vite di bloccaggio (F) con una tacca. In funzione dei valori riportati nelle tabelle dei diagrammi corrispondenti, partire dal 1° valore (coppia minima). Ruotare la ghiera (D) in **senso orario** (60° corrispondono a due tacche) fino a raggiungere la coppia richiesta. Le molle, essendo "negative" consentono di ottenere la coppia richiesta sia in "positivo" che in "negativo".
- Raggiunta la coppia stabilita, serrare le viti di bloccaggio (F) dalla ghiera.



È sconsigliabile raggiungere i valori di coppia massima, per evitare il "rovesciamento" delle molle; se si verificasse questa condizione, è necessario ripristinare le condizioni originali.

Nella serie **DGZ e derivate**, la regolazione della coppia si effettua come segue:

- Ruotare la ghiera (D) in **senso orario** a battuta quindi, procedere allo svitamento ruotando in **senso antiorario**, fino a raggiungere la coppia richiesta, in riferimento ai diagrammi corrispondenti.

INSTALLATION

- The device is assembled on the drive shaft and fixed with the six screws (B) and a coupling inside the device itself.
- To ensure optimum functioning, install the device as near as possible to the probable point of "collision" or directly on the transmission components to be safeguarded.
- The transmission component (pulley, gear, chain gear) is assembled with screws (not supplied) in the six holes (C).

TORQUE ADJUSTMENT

- Torque adjustment (in the mechanical versions) is achieved by turning the ring-nut (D) using a calliper wrench in holes (E) after having loosened the ring-nut locking screw (F). The mobile body has reference marks (at 30°) to determine the torque according to the attached diagrams. For high torque values the limiters are equipped with two springs (G) instead of one (H).
- In pneumatic versions torque adjustment is achieved by regulating the pressure of the compressed air delivered to the limiters (see attached diagrams).

NOTE - Torque limiters of the "backlash-free" series guarantee an instant and exact "drop" in the case of overload due to the negative curve features of the rocket springs.

To **adjust the torque**, operate as follows:

- Turn the ring-nut (D) until one of the locking screws (F) reaches one of the marks. According to the values indicated in the corresponding diagram tables, start from the 1st value (minimum torque). Turn the ring-nut (D) **clockwise** (60° corresponds to two marks) until reaching the required torque. The "negative" springs enable to adjust the required torque both in "negative" and "positive".
- After adjusting the required torque, tighten the ring-nut locking screws (F).



We suggest reaching the maximum torque values in order to prevent the spring form "reversing". If case of reverse you should restore the original conditions.

In **DGZ and spin-off series**, adjust the torque as follows:

- Turn the ring-nut (D) **clockwise** until home then slacken it by turning **anticlockwise** until reaching the required torque, according to the corresponding diagrams.



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LIMITATORI DI COPPIA SENZA GIOCO (Radiale e torsionale)

- I limitatori di coppia della serie “**senza gioco**”, sono dispositivi di sicurezza che agiscono a protezione di organi meccanici, soggetti a sovraccarichi ripetitivi e di diversa natura, ma dove sia indispensabile mantenere un punto fisso e determinato, della trasmissione.

GIOCO RADIALE/TORSIONALE = 0

FUNZIONAMENTO

- L'eventuale sovraccarico nel cinematismo, provocato dal superamento del valore di coppia prestabilito, procura il disinnesto del dispositivo, separando la parte motrice da quella condotta.
- La coppia viene trasmessa dal mozzo, alla flangia di pressione, tramite i rulli (A) alloggiati in apposite sedi “copiate”.
- I rulli vengono spinti dalla parte mobile, trasmettendo la coppia senza gioco, in entrambi i sensi di rotazione.
- Al superamento della coppia di esercizio, i rulli fuoriescono dalle rispettive sedi, generando lo spostamento del corpo mobile ed il conseguente arresto della trasmissione, intercettata da un microinterruttore elettrico che determinerà inoltre l'arresto (segnalato) della parte motrice.

APPLICAZIONI

- La grande precisione dei limitatori di coppia “senza gioco” ne determina l'impiego in tutte quelle trasmissioni meccaniche, dove il disinnesto della motricità non deve assolutamente causare spostamenti dei punti fissi della movimentazione: sistemi passo, passo- macchine automatiche- macchine utensili- ecc..
- Le varie versioni del limitatore “senza gioco”: **meccanica-pneumatica-a giunto lamellare-per intermittori**, consentono applicazioni per ogni esigenza specifica.

BACKLASH-FREE TORQUE LIMITERS (Radial and torsional)

- Torque limiters of the “**backlash-free**” series are safety devices which protect mechanical components that are subject to repeated and different kinds of overload but where it is recommended to maintain a fixed and determined point of transmission.

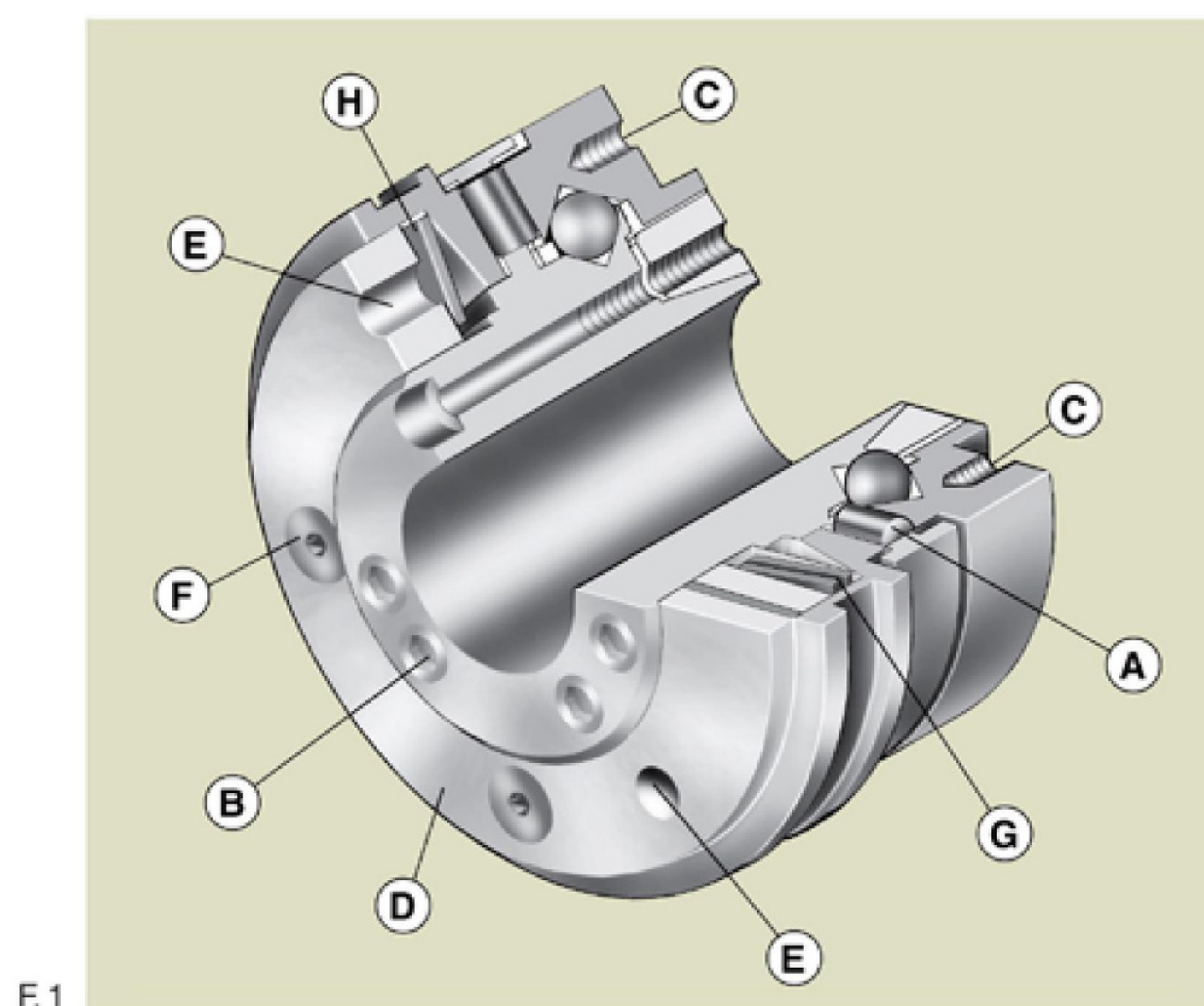
RADIAL/TORSIONAL VALUE = 0

FUNCTIONING

- Any overload in the movement system caused by exceeding the predetermined torque value causes disengagement of the device, separating the driving part from the driven.
- Torque is transmitted from the hub to the pressure flange through rollers “A” lodged in special “copied” housings.
- The rollers are pushed by the moving part, transmitting the backlash free torque limiter in both senses of rotation.
- On exceeding working torque the rollers exit their respective housing, generating the shifting of the moving component and the consequent stopping of the transmission, intercepted by an electric micro-switch which further brings about the stop (signalled) of the driving part.

APPLICATION

- The great precision of “backlash-free” torque limiters means that they can be used in all mechanical transmissions where disengagement of the drive must absolutely not cause shifting in the fixed movement points: step by step systems, automatic machines, machine tools etc.
- The various versions of “backlash-free” **torque limiters- mechanical-pneumatic-laminar sprocket-for intermitters**-mean that they can be applied to meet every specific need.



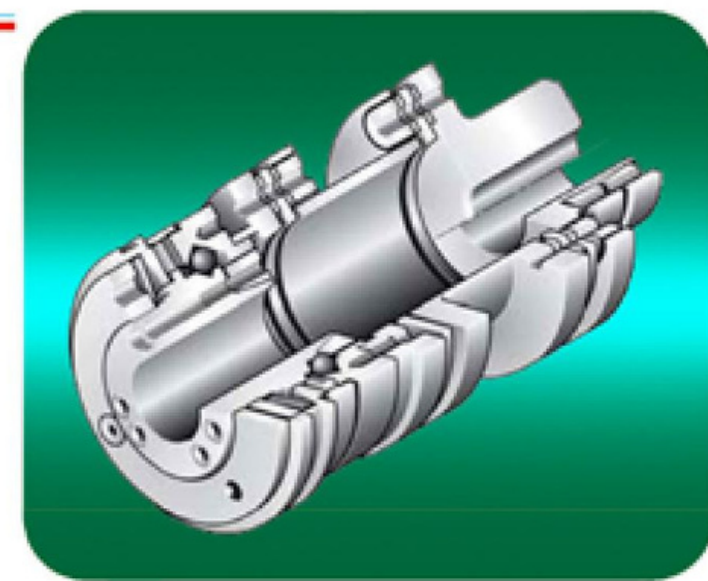


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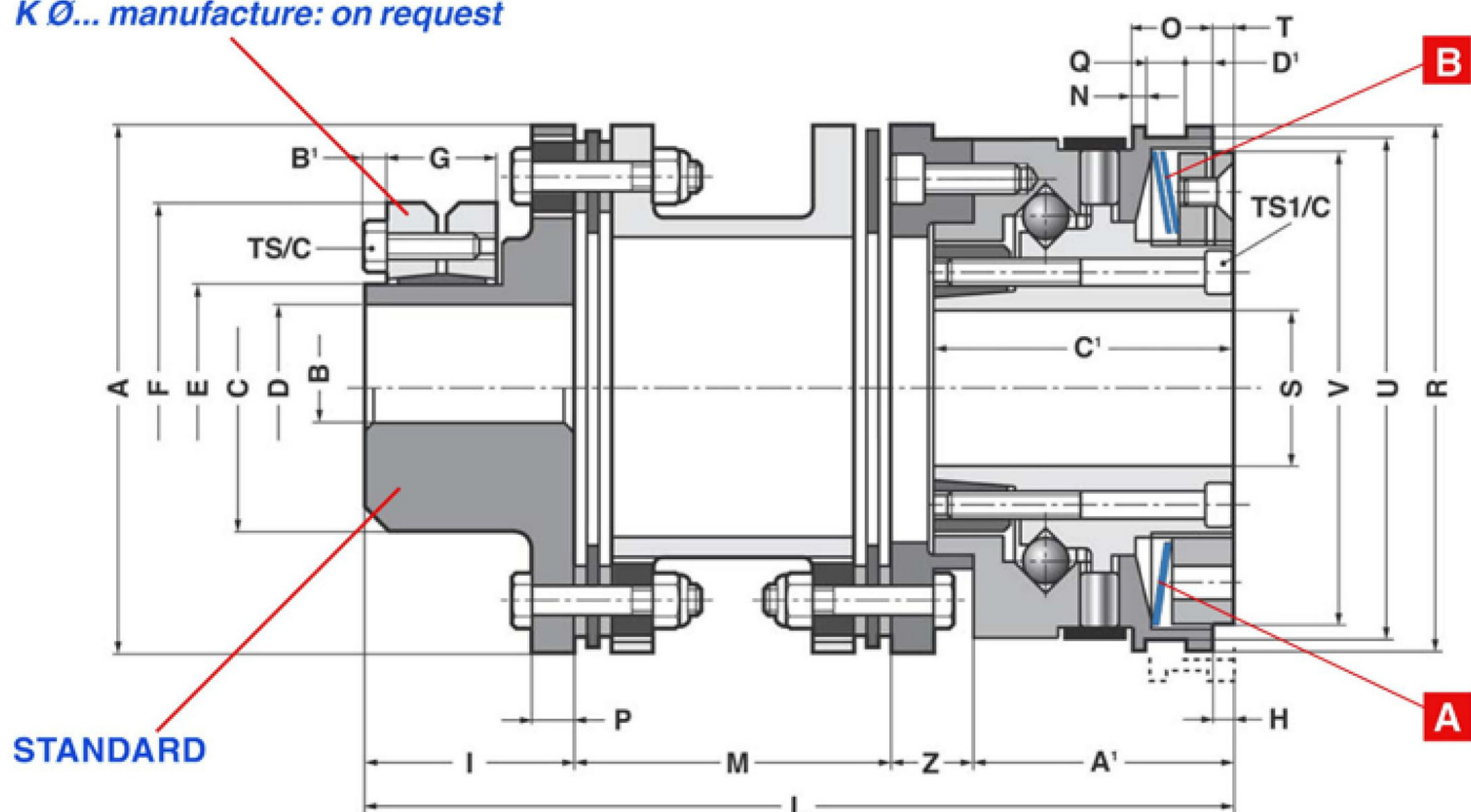
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Limitatori di coppia “senza gioco” - STANDARD
con giunto lamellare per collegamenti coassiali

“Backlash-free” Torque limiters - STANDARD
with laminar sprocket for coaxial connections



A richiesta: Esecuzione K Ø...
 K Ø... manufacture: on request



A'	B'	C'	D'	DISS.			TS/C Nm	TS1/C Nm
				Ang.	Rad.	Ass.		
36	4 ¹ -4 ²	40	6	0°-45°	0,30	1,30	4 ¹ -4 ²	4
49	4 ¹ -4 ²	55	6	0°-45°	0,30	1,40	4 ¹ -12 ²	5
57	4 ¹ -4 ² -4 ³	65	6	0°-45°	0,35	1,50	4 ¹ -12 ² -12 ³	14
70	4 ¹ -4 ² -4 ³	80	8	0°-45°	0,45	1,70	12 ¹ -12 ² -12 ³	26
103	4 ¹ -6 ²	115	10	0°-45°	0,70	2,10	12 ¹ -30 ²	28

		A	B		C	D ^{H7}	E ^{H7}	F	G	H	I	L	M	N	O	P	Q	R	S ^{H7}	T	U	V	Z	kg
			Ø	max																				
18	A	83	10	25	42	19 ¹ -20 ¹	24 ¹	50 ¹	19 ¹	0,9	35	137	55	2	15	8	7	70	14 - 15	1	59	65	12	2,3
	B					24 ² -25 ²	30 ²	60 ²	21 ²										18 - 19					
24	A	98	10	30	56	24 ¹ -25 ¹	30 ¹	60 ¹	21 ¹	1,2	40	161	56	2,5	16	8	7,5	90	19 - 20	2	75	85	18	4,2
	B					28 ² -30 ²	36 ²	72 ²	23 ²										24 - 25					
35	A	115	15	35	63	25 ¹ -28 ¹	30 ¹ -36 ¹	60 ¹ -72 ¹	21 ¹ -23 ¹	1,4	45	190	71	3	18	9	9	115	28 - 30	5	104	110	18	7
	B					30 ² -35 ²	44 ²	80 ²	25 ²										35 - 38					
40	A	145	20	45	77	35 ¹ -38 ¹ -40 ¹	44 ¹ -50 ¹	80 ¹ -90 ¹	25 ¹ -27 ¹	1,5	55	236	90	4	21	12	9	140	35 - 38	7	129	135	22	14,1
	B					42 ² -45 ²	55 ²	100 ²	30 ²										40 - 42					
60	A	205	30	65	112	50 ¹ -55 ¹	68 ¹	115 ¹	30 ¹	2,5	80	341	129	6	25	17	9	195	50 - 55	12	182	190	28	33,6
	B					60 ² -65 ²	80 ²	145 ²	32 ²										60					



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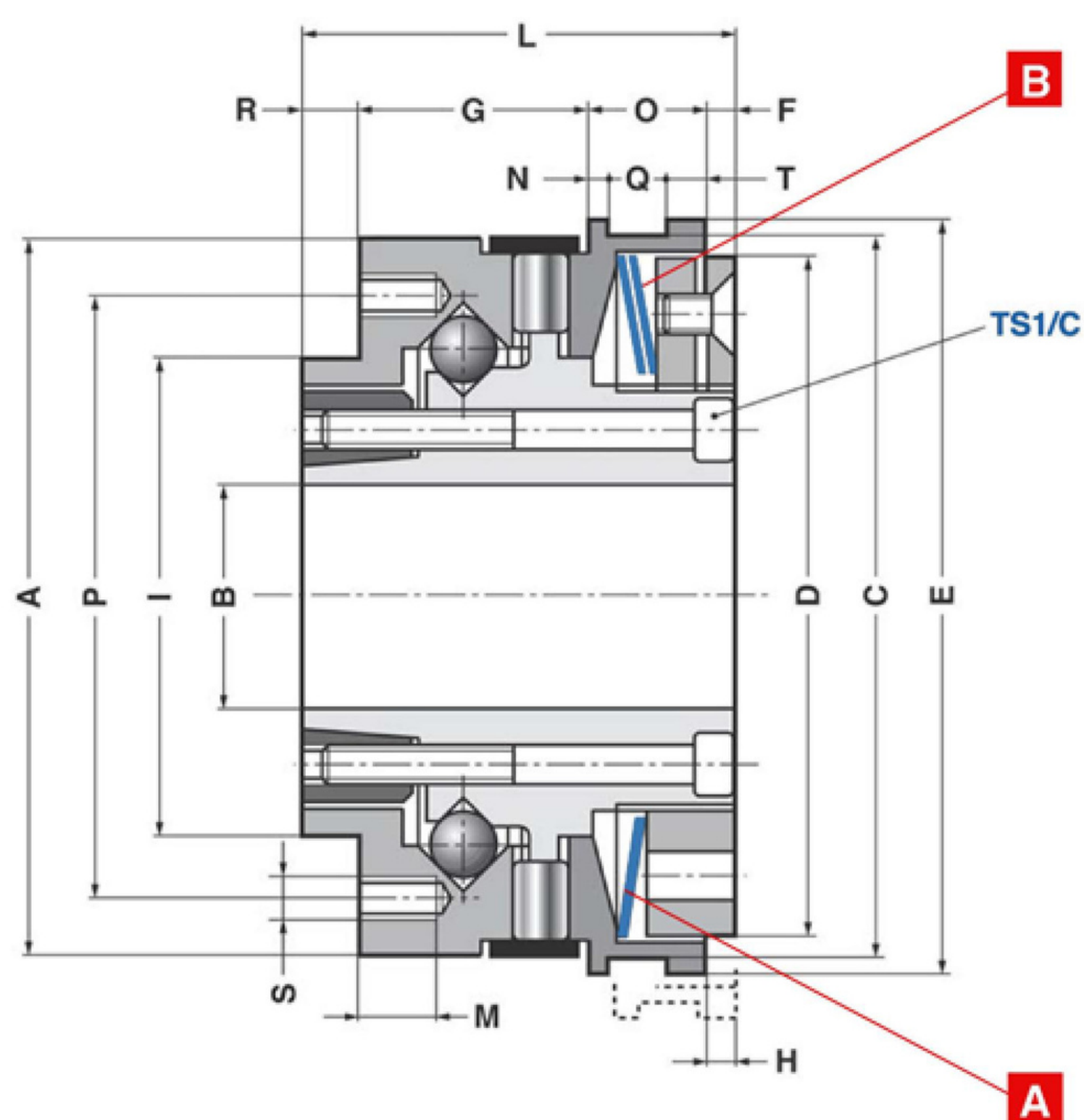
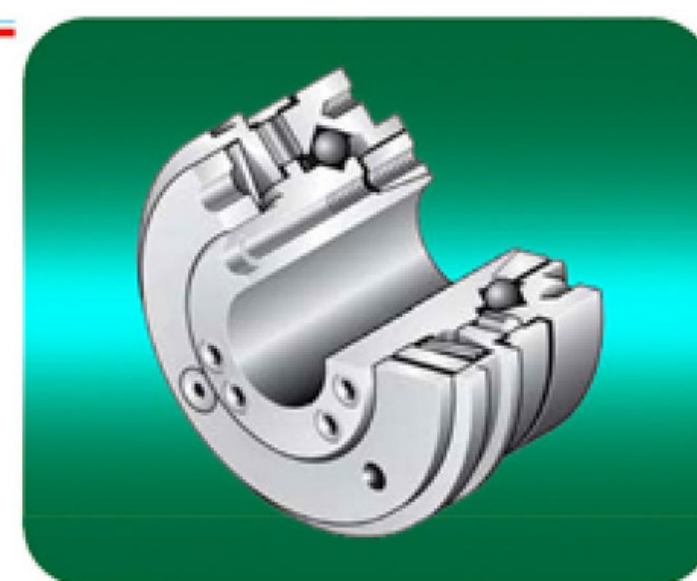


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Limitatori di coppia senza gioco - STANDARD

Backlash-free torque limiters - STANDARD



		A	B ^{H7}	B _{max}	C	D	E	F	G	H	I ^{H7}	L	M	N	O	P	Q	R	S	T	TS1/C Nm	kg
18	A	60	14 - 15 - 18 - 19	19	65	59	70	1	20	0,9	40	40	8	2	15	53	7	4	6 x M5	6	4	0,7
	B																					
24	A	85	19 - 20 - 24 - 25	25	85	75	90	2	31	1,2	55	55	10	2,5	16	69	7,5	6	6 x M6	6	5	1,7
	B																					
35	A	109	28 - 30 - 35 - 38	38	110	104	115	5	34	1,5	72	65	10	3	18	90	9	8	6 x M6	6	14	3,1
	B																					
40	A	135	35 - 38 - 40 - 42	42	135	129	140	7	42	1,6	92	80	14	4	21	112	9	10	6 x M8	8	26	6,2
	B																					
60	A	185	50 - 55 - 60	60	190	182	195	12	67	2,5	140	115	24	6	25	168	9	12	6 x M10	10	28	17,6
	B																					



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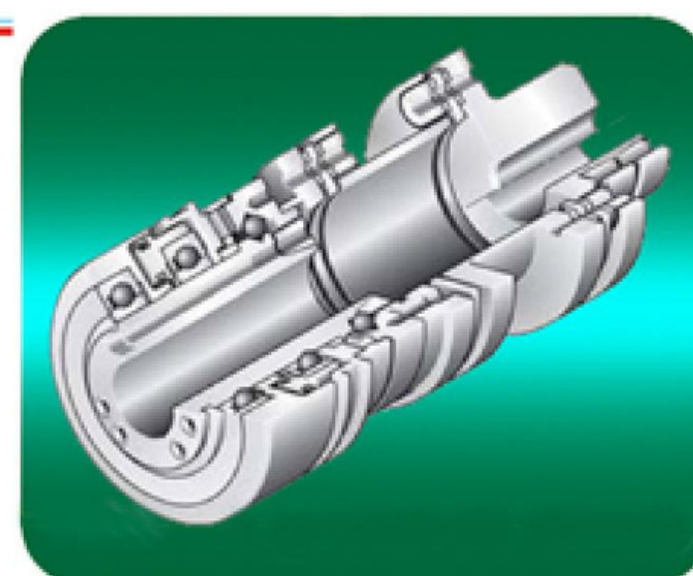
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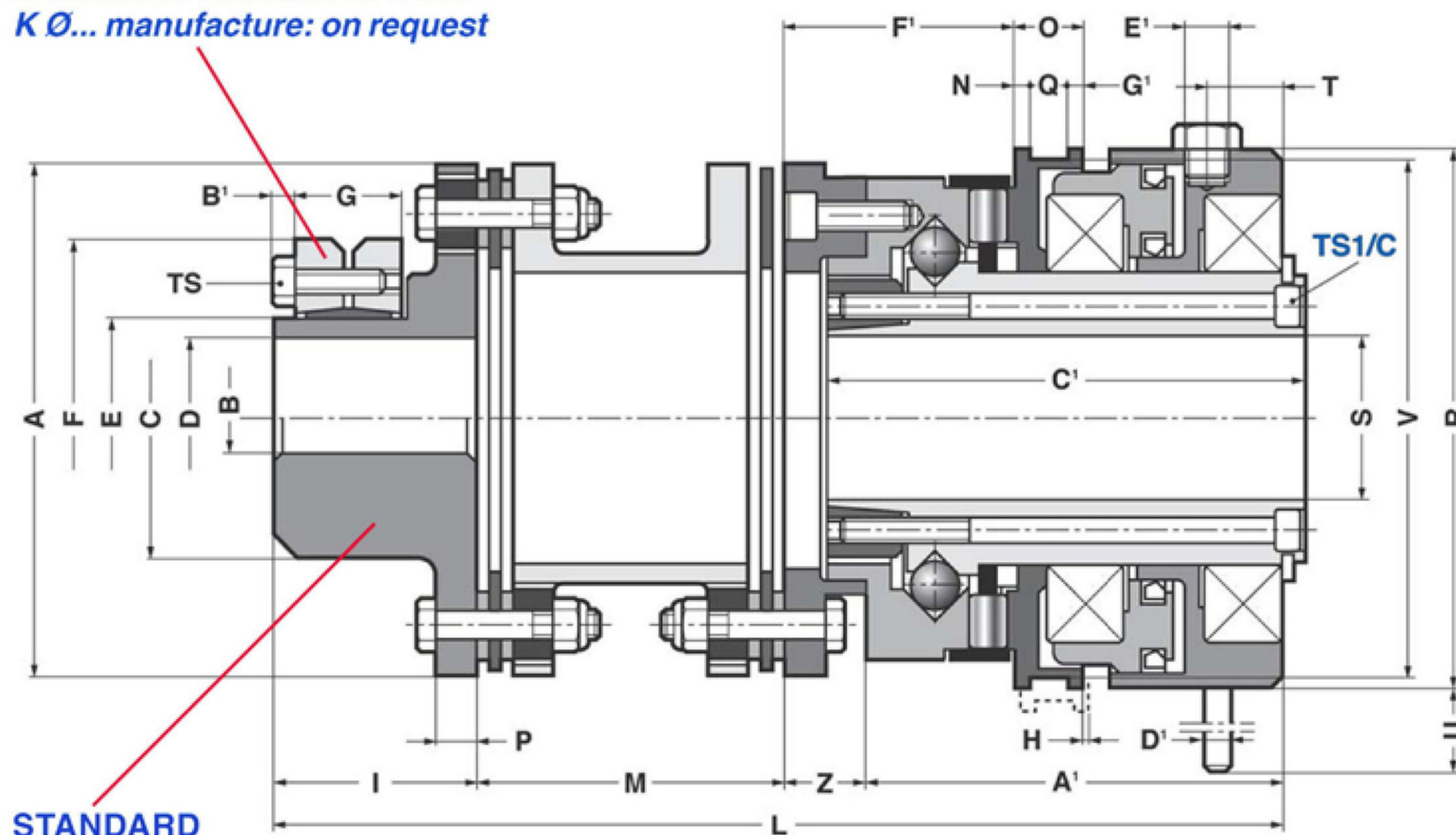
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Limitatori di coppia “senza gioco” a funzionamento pneumatico con giunto lamellare per collegamenti coassiali

"Backlash-free" Torque limiters pneumatic version with laminar sprocket for coaxial connections



A richiesta: Esecuzione K Ø...
K Ø... manufacture: on request



A'	B'	C'	D'	E' Gas	F'	G'	DISS.			TS/C Nm	TS1/C Nm
							Ang.	Rad.	Ass.		
68,5	4'-4 ²	77,5	6	1/8"	32	6	0°-45'	0,30	1,30	4'-4 ²	4
84	4'-4 ²	96	6	1/8"	49	6	0°-45'	0,30	1,40	4'-12 ²	5
92	4'-4 ² -4 ³	107	8	1/8"	53	6	0°-45'	0,35	1,50	4'-12 ² -12 ³	14
116	4'-4 ² -4 ³	134	10	1/8"	64	8	0°-45'	0,45	1,70	12'-12 ² -12 ³	26
163	4'-6 ²	184	12	1/4"	94	10	0°-45'	0,70	2,10	12'-30 ²	28

	A	B		C	D ^{H7}	E ^{h7}	F	G	H	I	L	M	N	O	P	Q	R	S ^{H7}	T	U	V	Z	kg
		Ø	max																				
18	83	10	25	42	19 ¹ -20 ¹ 24 ² -25 ²	24 ¹ 30 ²	50 ¹ 60 ²	19 ¹ 21 ²	0,9	35	175,5	55	1,5	15	8	7,5	75	14-15 18-19	13	30	71	12	2,7
24	98	10	30	56	24 ¹ -25 ¹ 28 ² -30 ²	30 ¹ 36 ¹	60 ¹ 72 ²	21 ¹ 23 ²	1,2	40	203	56	2	15,5	8	7,5	95	19-20 24-25	14	40	90	18	5,4
35	115	15	35	63	25 ¹ -28 ² 30 ² -35 ³	30 ¹ -36 ² 44 ³	60 ¹ -72 ² 80 ³	21 ¹ -23 ² 25 ³	1,5	45	232	71	2	17	9	9	120	25-28-30 35-38	17	50	115	18	9,3
40	145	20	45	77	35 ¹ -38 ² -40 ² 42 ² -45 ³	44 ¹ -50 ² 55 ³	80 ¹ -90 ² 100 ³	25 ¹ -27 ² 30 ³	1,6	55	290	90	3	20	12	9	145	30-35-38 40-42	21	60	140	22	18,1
60	205	30	65	112	50 ¹ -55 ¹ 60 ¹ -65 ²	68 ¹ 80 ²	115 ¹ 145 ²	30 ¹ 32 ²	2,5	80	410	129	6	25	17	9	195	50-55 60	29	80	190	28	48,1

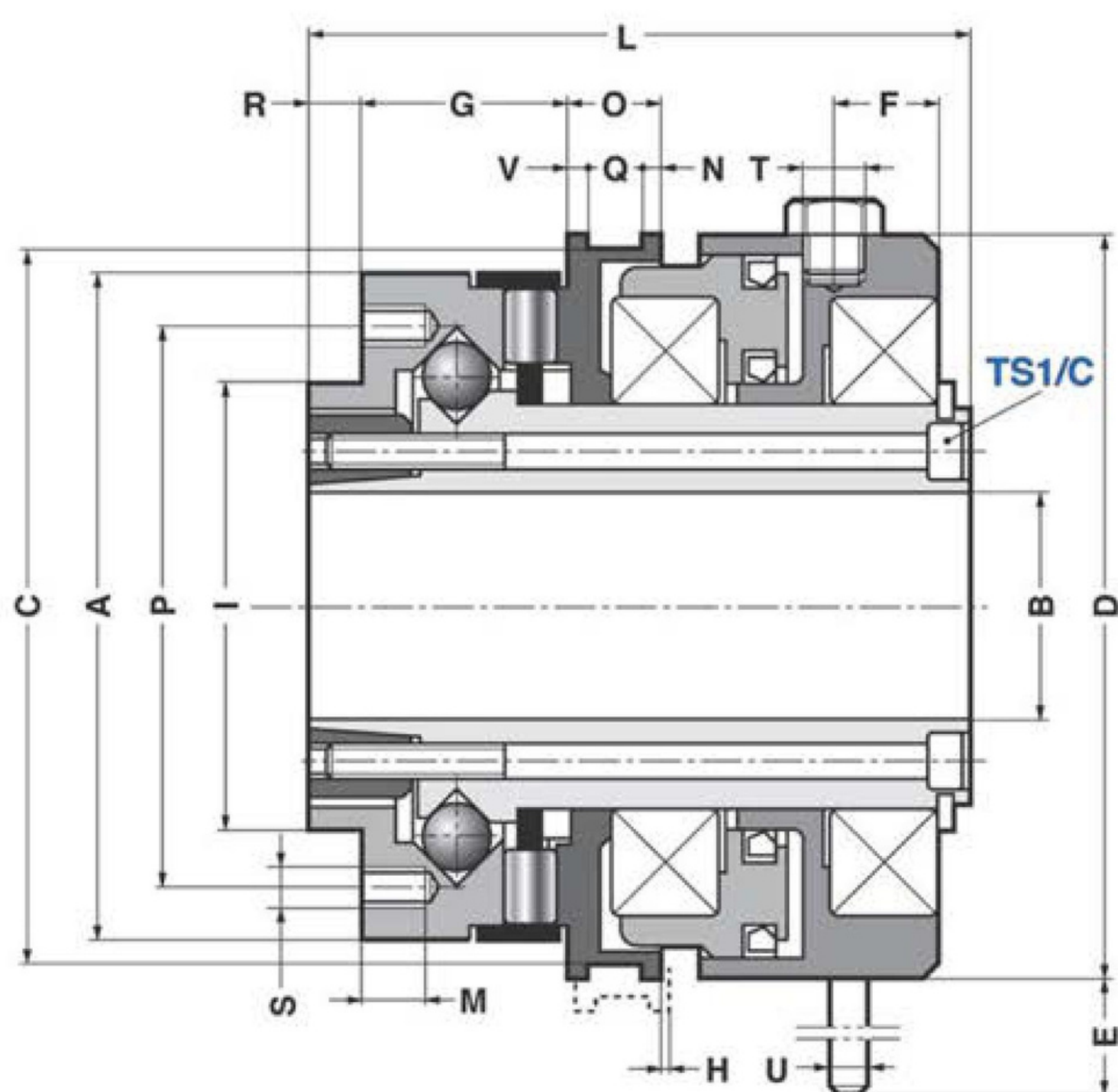
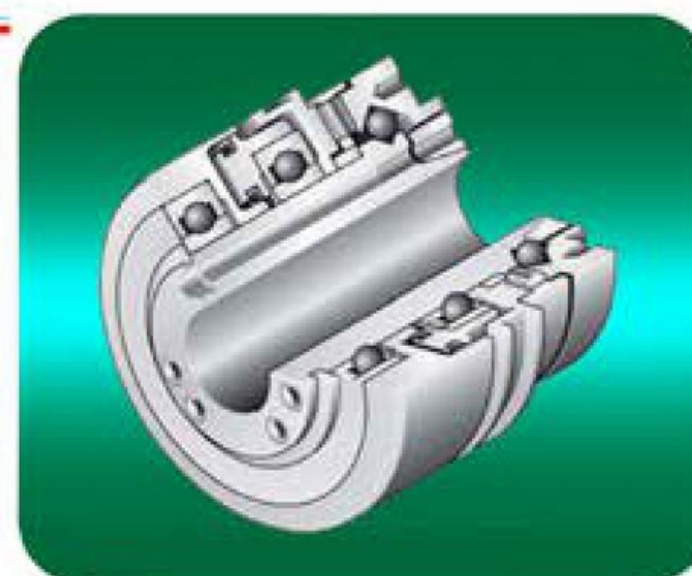


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Limitatori di coppia “senza gioco” a funzionamento pneumatico

“Backlash-free” Torque limiters pneumatic version



	A	B ^{H7}	C	D	E	F	G	H	I ^{H7}	L	M	N	O	P	Q	R	S	T Gas	U	V	TS1/C Nm	kg
18	60	14-15-18-19	71	75	30	13	20	0,9	40	77,5	8	6	15	53	7,5	4	6 x M5	1/8"	6	1,5	4	1,1
24	85	19-20-24-25	90	95	40	14	31	1,2	55	96	10	6	15,5	69	7,5	6	6 x M6	1/8"	6	2	5	2,9
35	109	28-30-35-38	115	120	50	17	35	1,5	72	107	10	6	17	90	9	8	6 x M6	1/8"	8	2	14	5,4
40	135	35-38-40-42	140	145	60	21	42	1,6	92	134	14	8	20	112	9	10	6 x M8	1/8"	10	3	26	10,5
60	185	50-55-60	190	195	80	29	67	2,5	140	184	24	10	25	168	9	12	6 x M10	1/4"	12	6	28	27



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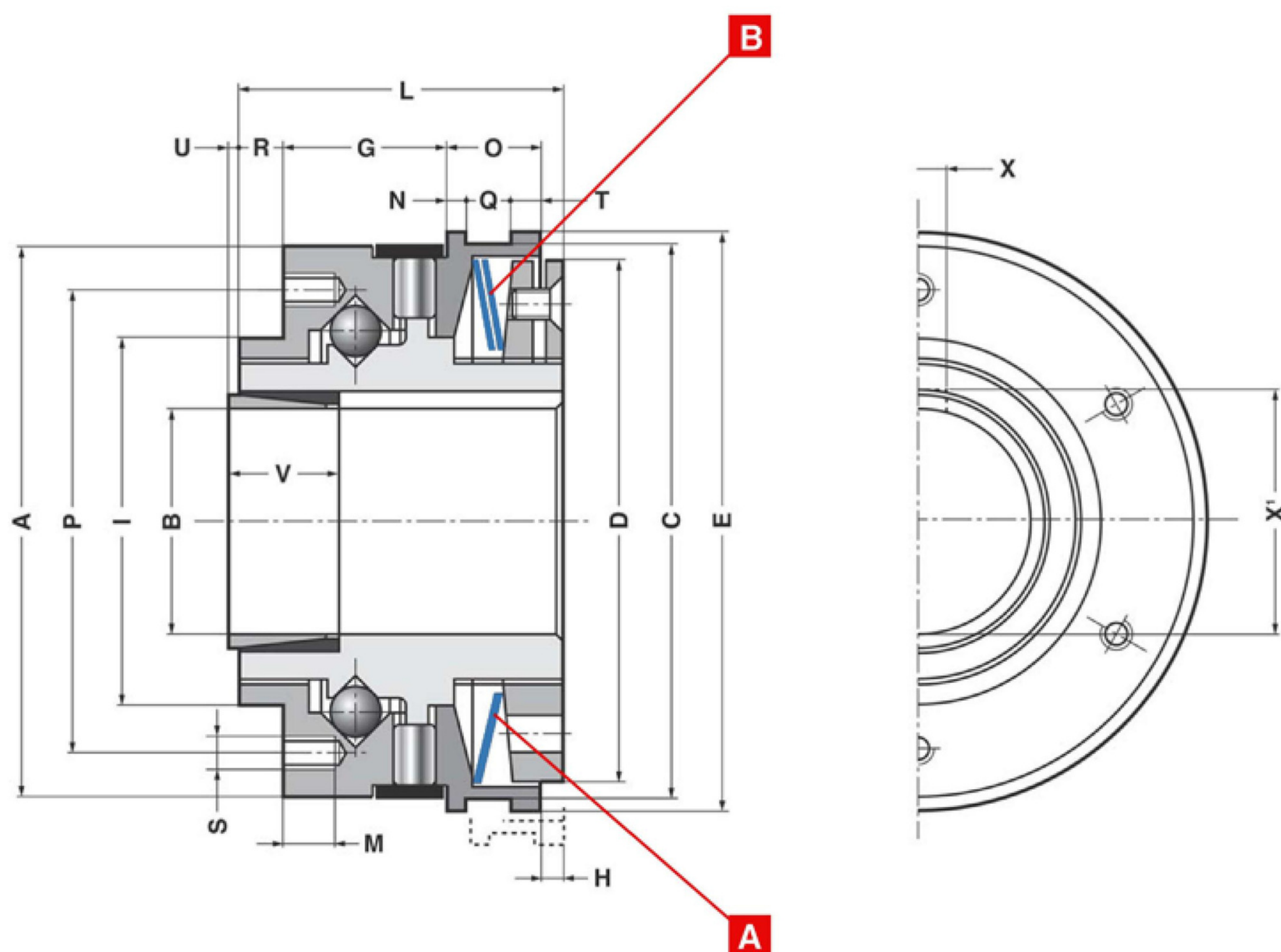


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Limitatori di coppia senza gioco - STANDARD

Backlash-free torque limiters - STANDARD



X - X1 - VALORI A NORME TAB. UNI 95
VALUES ACCORDING TO TAB. UNI 95 STANDARDS.

		A	B ^{H7}	B _{max}	C	D	E	G	H	I ^{H7}	L	M	N	O	P	Q	R	S	T	U	V	kg
																					Nm	
18	A	60	18 - 19 - 20	20	65	59	70	20	0,9	40	40	8	2	15	53	7	4	6 x M5	6	2	14	0,8
	B																					
24	A	85	25 - 28 - 30	30	85	75	90	31	1,2	55	55	10	2,5	16	69	7,5	6	6 x M6	6	2	18	1,8
	B																					
35	A	109	38 - 40 - 42 - 45	45	110	104	115	34	1,5	72	65	10	3	18	90	9	8	6 x M6	6	2	22	3,3
	B																					
40	A	135	45 - 48 - 50 - 55	55	135	129	140	42	1,6	92	80	14	4	21	112	9	10	6 x M8	8	2	27	6,5
	B																					
60	A	185	65 - 70 - 75 - 80	80	190	182	195	67	2,5	140	115	24	6	25	168	9	12	6 x M10	10	2	37	17,9
	B																					



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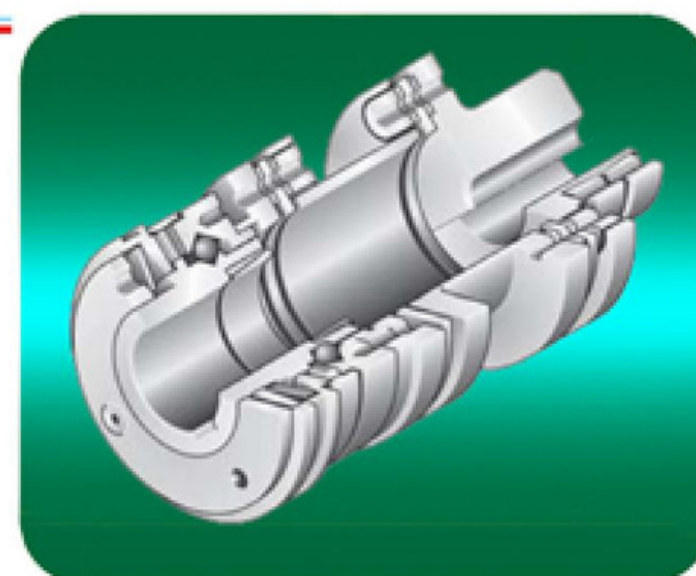


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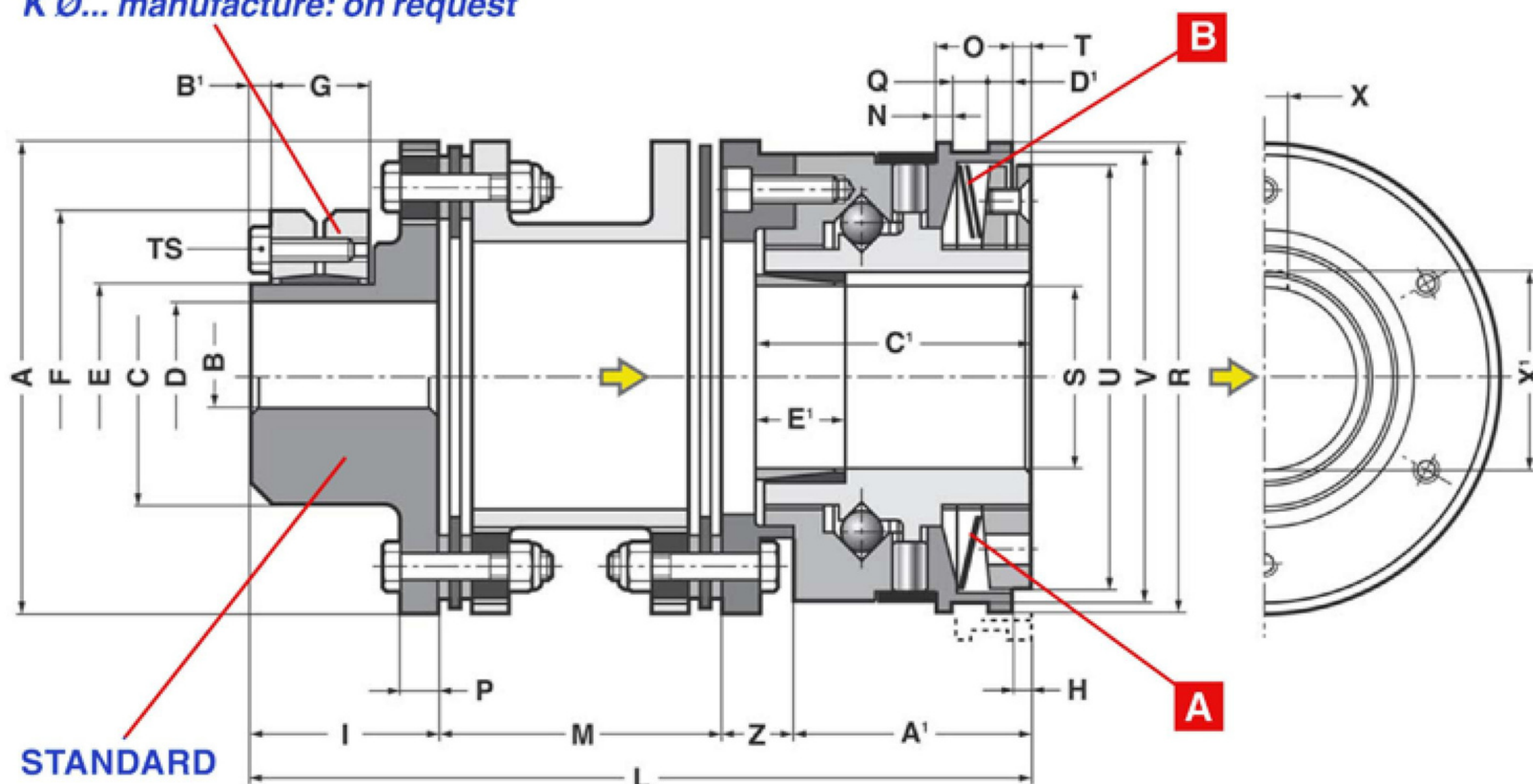
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Limitatori di coppia “senza gioco” - STANDARD con
giunto lamellare per collegamenti coassiali

“Backlash-free” torque limiters - STANDARD with
laminar sprocket for coaxial connections



A richiesta: Esecuzione K Ø...
K Ø... manufacture: on request



X - X1 - VALORI A NORME TAB. UNI 95
VALUES ACCORDING TO TAB. UNI 95 STANDARDS.

A'	B'	C'	D'	E'	TS/C Nm	DISS.		
						Ang.	Rad.	Ass.
36	4 ¹ -4 ²	42	6	14	4 ¹ -4 ²	0°-45'	0,30	1,30
49	4 ¹ -4 ²	57	6	18	4 ¹ -12 ²	0°-45'	0,30	1,40
57	4 ¹ -4 ² -4 ³	67	6	22	4 ¹ -12 ² -12 ³	0°-45'	0,35	1,50
70	4 ¹ -4 ² -4 ³	82	8	27	12 ¹ -12 ² -12 ³	0°-45'	0,45	1,70
103	4 ¹ -6 ²	117	10	37	12 ¹ -30 ²	0°-45'	0,70	2,10

		A	B		C	D ^{H7}	E ^{H7}	F	G	H	I	L	M	N	O	P	Q	R	S ^{H7}	T	U	V	Z	kg
			min	max																				
18	A	83	10	25	42	19 ¹ - 20 ¹	24 ¹	50 ¹	19 ¹	0,9	35	137	55	2	15	8	7	70	18 - 19	1	59	65	12	2,4
	B					24 ² - 25 ²	30 ²	60 ²	21 ²										20					
24	A	98	10	30	56	24 ¹ - 25 ¹	30 ¹	60 ¹	21 ¹	1,2	40	161	56	2,5	16	8	7,5	90	25 - 28	2	75	85	18	4,2
	B					28 ² - 30 ²	36 ²	72 ²	23 ²										30					
35	A	115	15	35	63	25 ¹ - 28 ¹	30 ¹ - 36 ²	60 ¹ - 72 ²	21 ¹ - 23 ²	1,5	45	190	71	3	18	9	9	115	38 - 40	5	104	110	18	7,4
	B					30 ² - 35 ³	44 ³	80 ³	25 ³										42 - 45					
40	A	145	20	45	77	35 ¹ - 38 ²	44 ¹ - 50 ²	80 ¹ - 90 ²	25 ¹ - 27 ²	1,6	55	236	90	4	21	12	9	140	45 - 48	7	129	135	22	14,5
	B					40 ² - 42 ² - 45 ³	55 ³	100 ³	30 ³										50 - 55					
60	A	205	30	65	112	50 ¹ - 55 ¹	68 ¹	115 ¹	30 ¹	2,5	80	341	129	6	25	17	9	195	65 - 70	12	182	190	28	34
	B					60 ¹ - 65 ²	80 ²	145 ²	32 ²										75 - 80					



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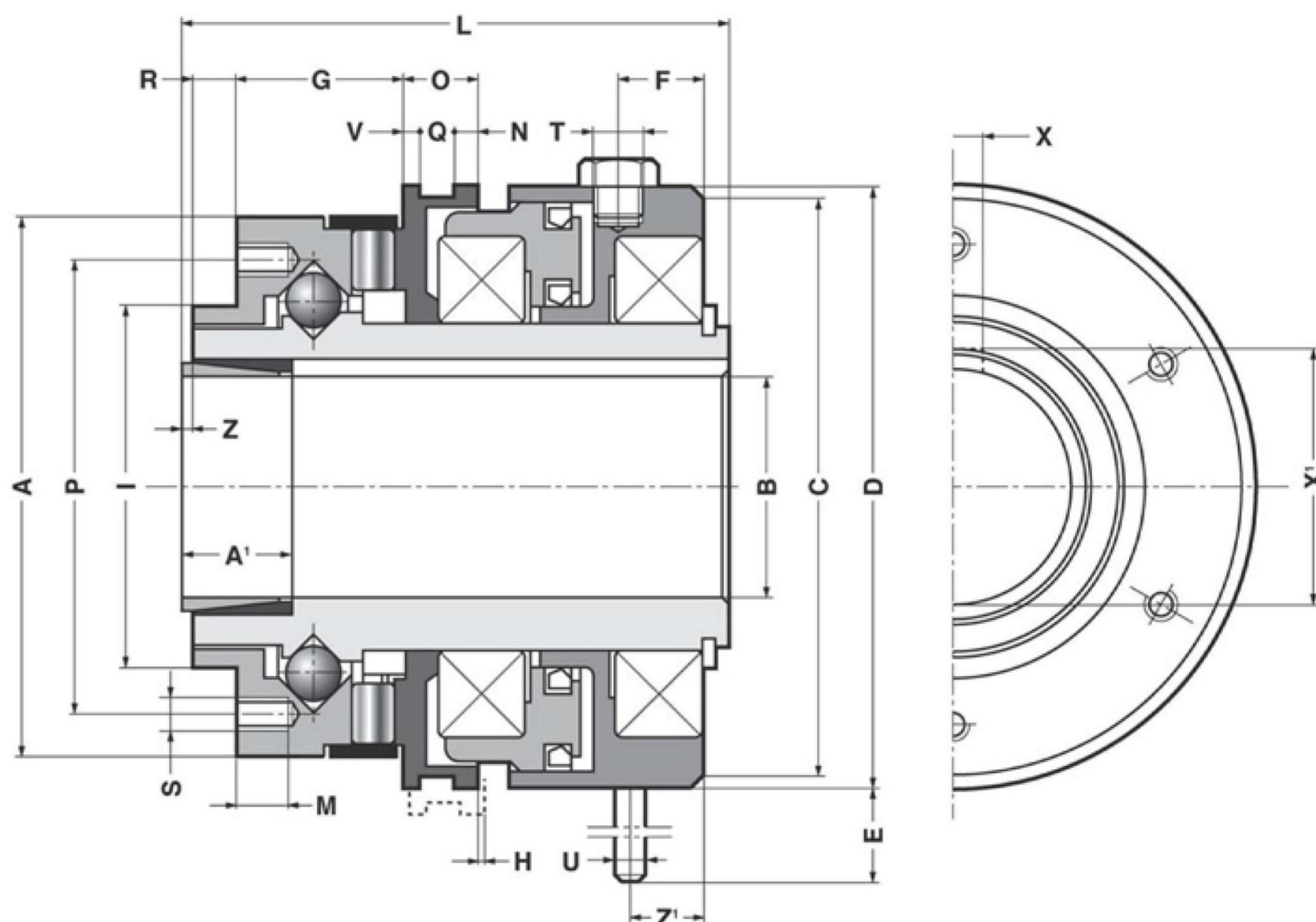


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Limitatori di coppia “senza gioco” a funzionamento pneumatico

“Backlash-free” torque limiters pneumatic version



X - X1 - VALORI A NORME TAB. UNI 95
VALUES ACCORDING TO TAB. UNI 95 STANDARDS.

	A	A ¹	B ^{H7}	C	D	E	F	G	H	I ^{H7}	L	M	N	O	P	Q	R	S	T Gas	U	V	Z	Z ¹	kg
18	60	14	18-19-20	71	75	30	13	20	0,9	40	77,5	8	6	15	53	7,5	4	6 x M5	1/8"	6	1,5	2	6	1,1
24	85	18	25-28-30	90	95	40	14	31	1,2	55	96	10	6	15,5	69	7,5	6	6 x M6	1/8"	6	2	2	7	2,9
35	109	22	38-40-42-45	115	120	50	17	35	1,5	72	107	10	6	17	90	9	8	6 x M6	1/8"	8	2	2	8	5,4
40	135	27	45-48-50-55	140	145	60	21	42	1,6	92	134	14	8	20	112	9	10	6 x M8	1/8"	10	3	2	10	10,5
60	185	37	65-70-75-80	190	195	80	29	67	2,5	140	184	24	10	25	168	9	12	6 x M10	1/4"	12	6	2	14	27



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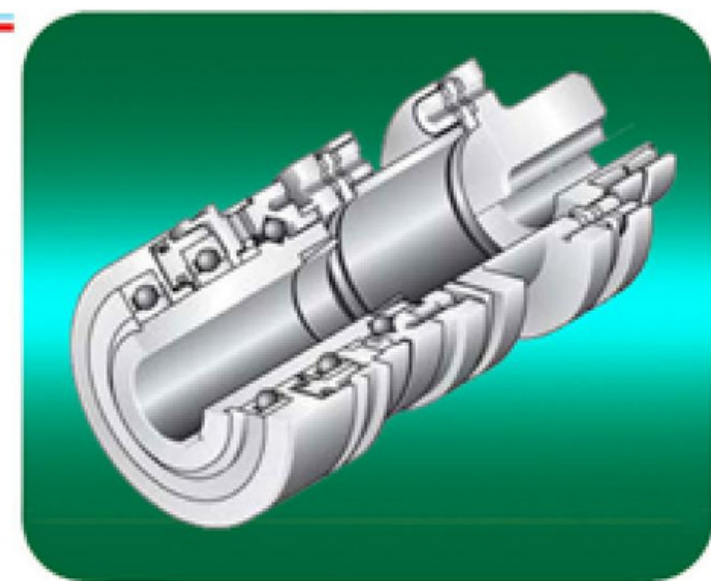


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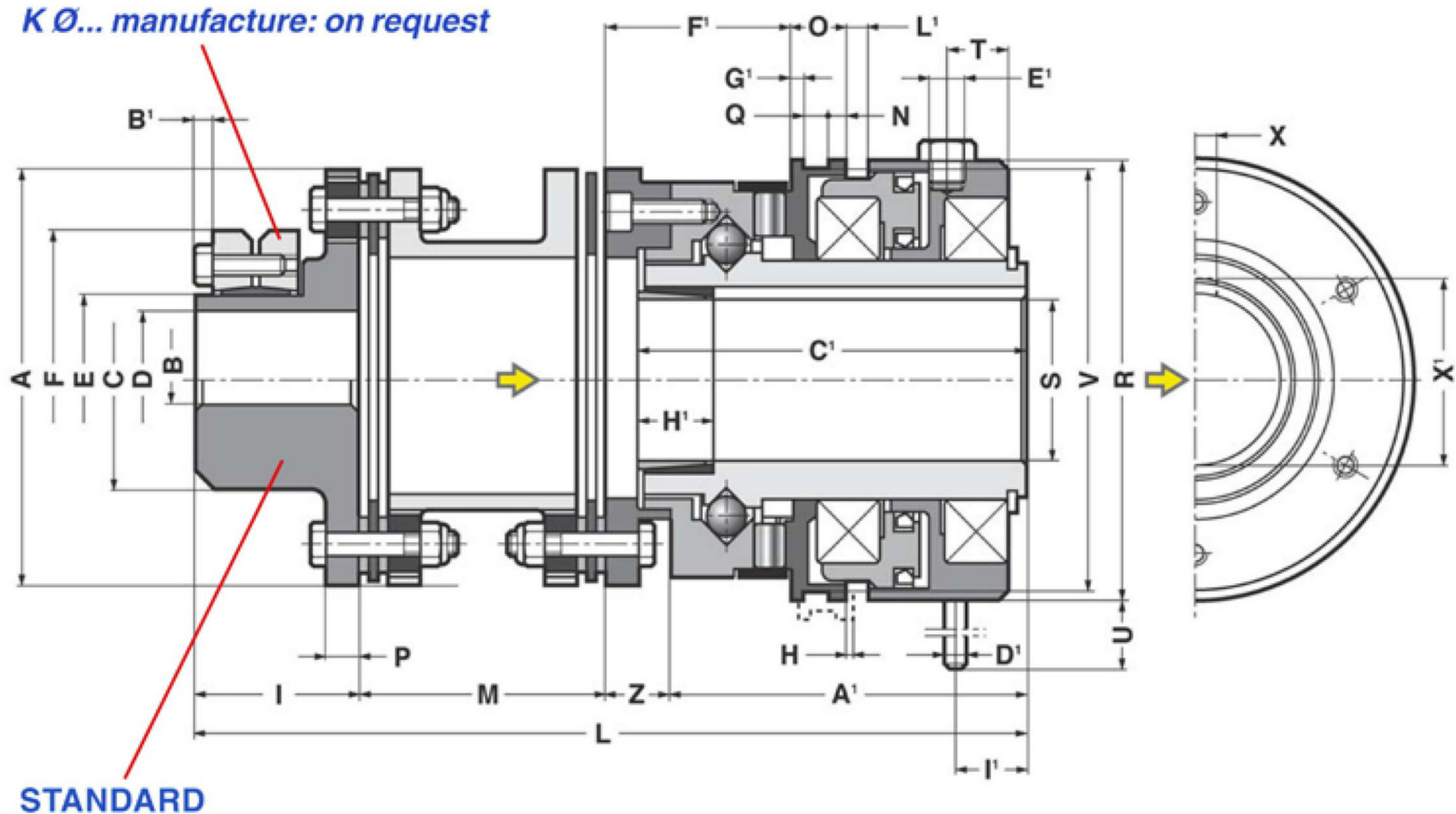
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Limitatori di coppia “senza gioco” a funzionamento pneumatico con giunto lamellare per collegamenti coassiali

“Backlash-free” torque limiters pneumatic version with laminar sprocket for coaxial connections



A richiesta: Esecuzione K Ø...
K Ø... manufacture: on request



STANDARD

X - X1 - VALORI A NORME TAB. UNI 95
VALUES ACCORDING TO TAB. UNI 95 STANDARDS.

A'	B'	C'	D'	E' Gas	F'	G'	H'	I'	L'	DISS.		
										Ang.	Rad.	Ass.
68,5	4 ¹ -4 ²	79,5	6	1/8"	32	1,5	14	6	6	0°-45'	0,30	1,30
84	4 ¹ -4 ²	98	6	1/8"	49	2	18	7	6	0°-45'	0,30	1,40
92	4 ¹ -4 ² -4 ³	109	8	1/8"	53	2	22	8	6	0°-45'	0,35	1,50
116	4 ¹ -4 ² -4 ³	136	10	1/8"	64	3	27	10	8	0°-45'	0,45	1,70
163	4 ¹ -6 ²	186	12	1/4"	94	6	37	14	10	0°-45'	0,70	2,10

	A		B	C	D ^{H7}	E ^{H7}	F	G	H	I	L	M	N	O	P	Q	R	S ^{H7}	T	U	V	Z	kg
	Ø	max																					
18	83	10	25	42	19 ¹ -20 ¹ 24 ² -25 ²	24 ¹ 30 ²	50 ¹ 60 ²	19 ¹ 21 ²	0,9	35	175,5	55	6	15	8	7,5	75	18-19 20	13	30	71	12	2,9
24	98	10	30	56	24 ¹ -25 ¹ 28 ² -30 ²	30 ¹ 36 ²	60 ¹ 72 ²	21 ¹ 23 ²	1,2	40	203	56	6	15,5	8	7,5	95	25-28 30	14	40	90	18	5,7
35	115	15	35	63	25 ¹ -28 ² 30 ² -35 ³	30 ¹ -36 ² 44 ³	60 ¹ -72 ² 80 ³	21 ¹ -23 ² 25 ³	1,5	45	232	71	6	17	9	9	120	38-40 42-45	17	50	115	18	9,6
40	145	20	45	77	35 ¹ -38 ² -40 ² 42 ² -45 ³	44 ¹ -50 ² 55 ³	80 ¹ -90 ² 100 ³	25 ¹ -27 ² 30 ³	1,6	55	290	90	8	20	12	9	145	45-48 50-55	21	60	140	22	14,8
60	205	30	65	112	50 ¹ -55 ¹ 60 ¹ -65 ²	68 ¹ 80 ²	115 ¹ 145 ²	30 ¹ 32 ²	2,5	80	410	129	10	25	17	9	195	65-70 75-80	29	80	190	28	49



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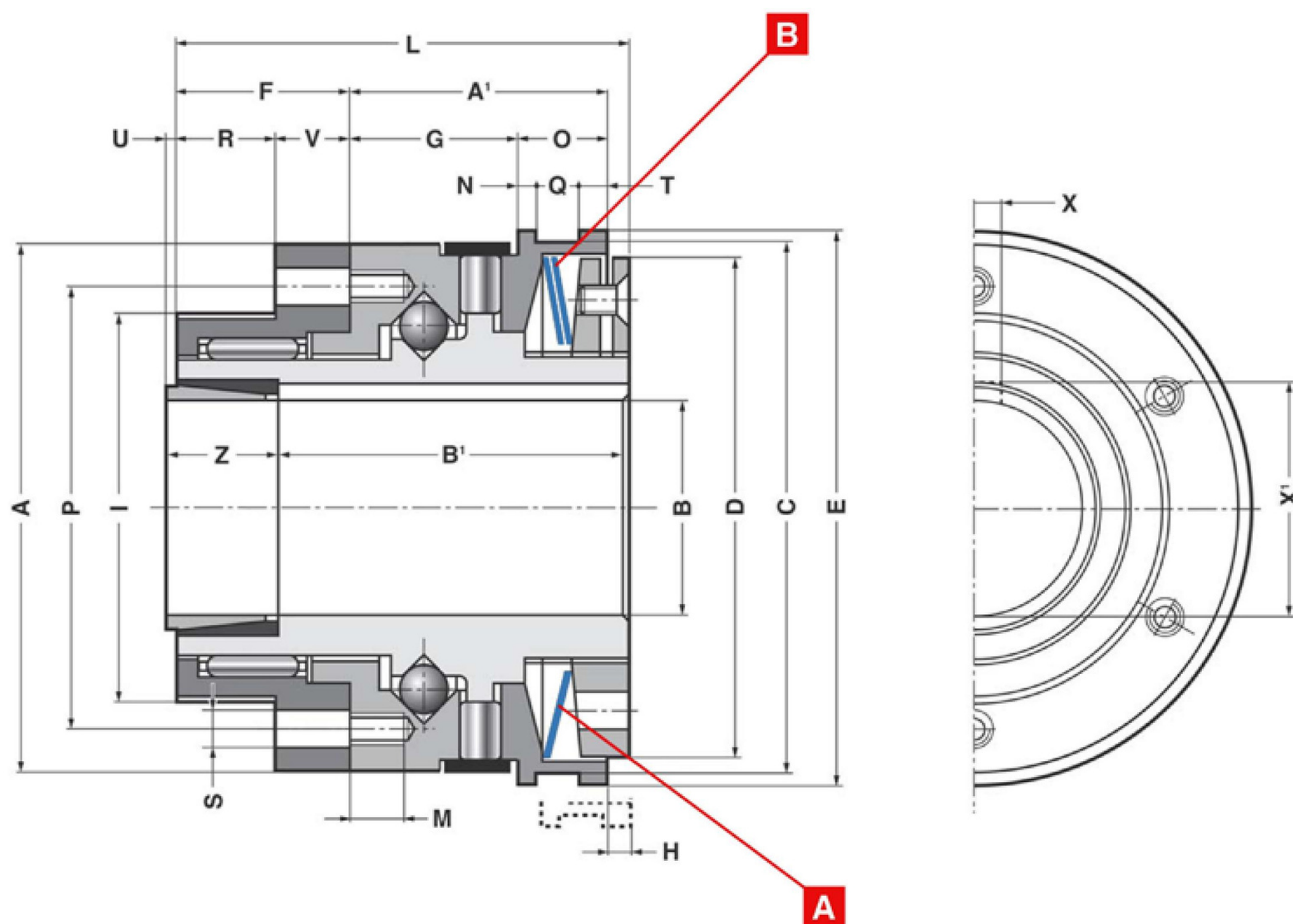


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Limitatori di coppia “senza gioco” con mozzo prolungato portante corto

“Backlash-free” torque limiters with extended supporting short hub



X - X1 - VALORI A NORME TAB. UNI 95
VALUES ACCORDING TO TAB. UNI 95 STANDARDS.

		A	A'	B ^{H7}	B'	C	D	E	F	G	H	I ^{H7}	L	M	N	O	P	Q	R	S	T	U	V	Z	kg
18	A	60	35	18-19-20	43	65	59	70	20	20	0,9	45	57	8	2	15	53	7	12	6 x M5	6	2	8	14	-
	B																								
24	A	85	47	25-28-30	60	85	75	90	29	31	1,2	60	78	10	2,5	16	69	7,5	17	6 x M6	6	2	12	18	-
	B																								
35	A	109	52	38-40-42-45	70	110	104	115	35	34	1,5	80	92	10	3	18	90	9	20	6 x M6	6	2	15	22	-
	B																								
40	A	135	63	45-48-50-55	82	135	129	140	38	42	1,6	100	109	14	4	21	112	9	23	6 x M8	8	2	15	27	-
	B																								
60	A	185	91	65-70-75-80	117	190	182	195	50	67	2,5	135	154	24	6	25	168	9	30	6 x M10	10	2	20	37	-
	B																								



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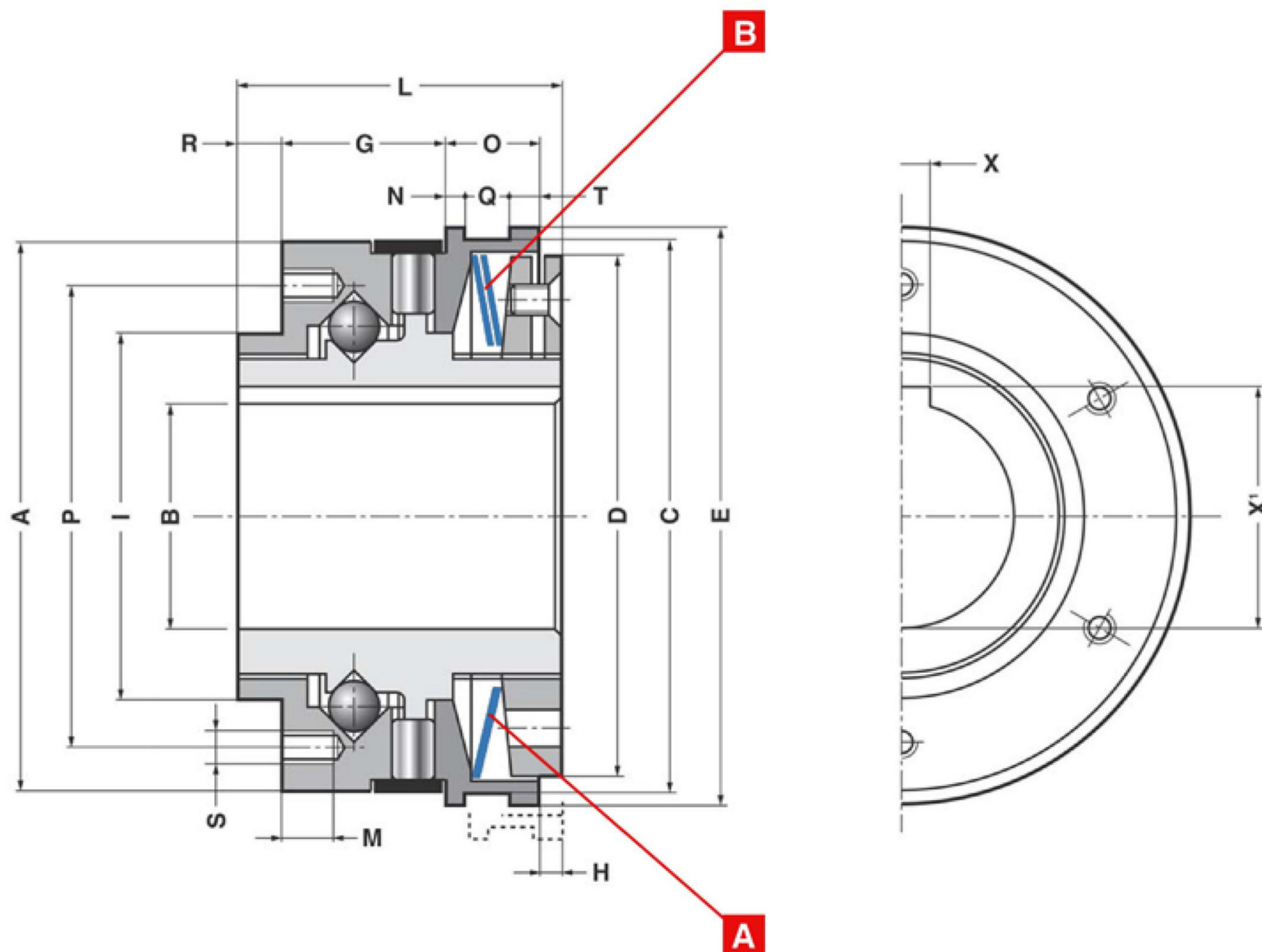


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Limitatori di coppia senza gioco - STANDARD

Backlash-free torque limiters - STANDARD



X - X1 - VALORI A NORME TAB. UNI 95
VALUES ACCORDING TO TAB. UNI 95 STANDARDS.

		A	B ^{H7}	B _{max}	C	D	E	G	H	I ^{H7}	L	M	N	O	P	Q	R	S	T	kg
18	A	60	18 - 19 - 20	20	65	59	70	20	0,9	40	40	8	2	15	53	7	4	6 x M5	6	0,8
24	B	85	25 - 28 - 30	30	85	75	90	31	1,2	55	55	10	2,5	16	69	7,5	6	6 x M6	6	1,8
	A	109	38 - 40 - 42 - 45	45	110	104	115	34	1,5	72	65	10	3	18	90	9	8	6 x M6	6	3,3
40	B	135	45 - 48 - 50 - 55	55	135	129	140	42	1,6	92	80	14	4	21	112	9	10	6 x M8	8	6,5
	A	185	65 - 70 - 75 - 80	80	190	182	195	67	2,5	140	115	24	6	25	168	9	12	6 x M10	10	17,9



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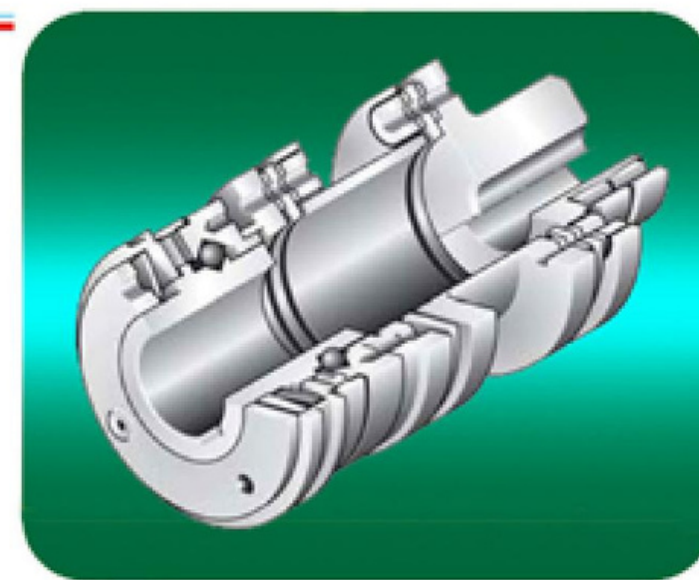


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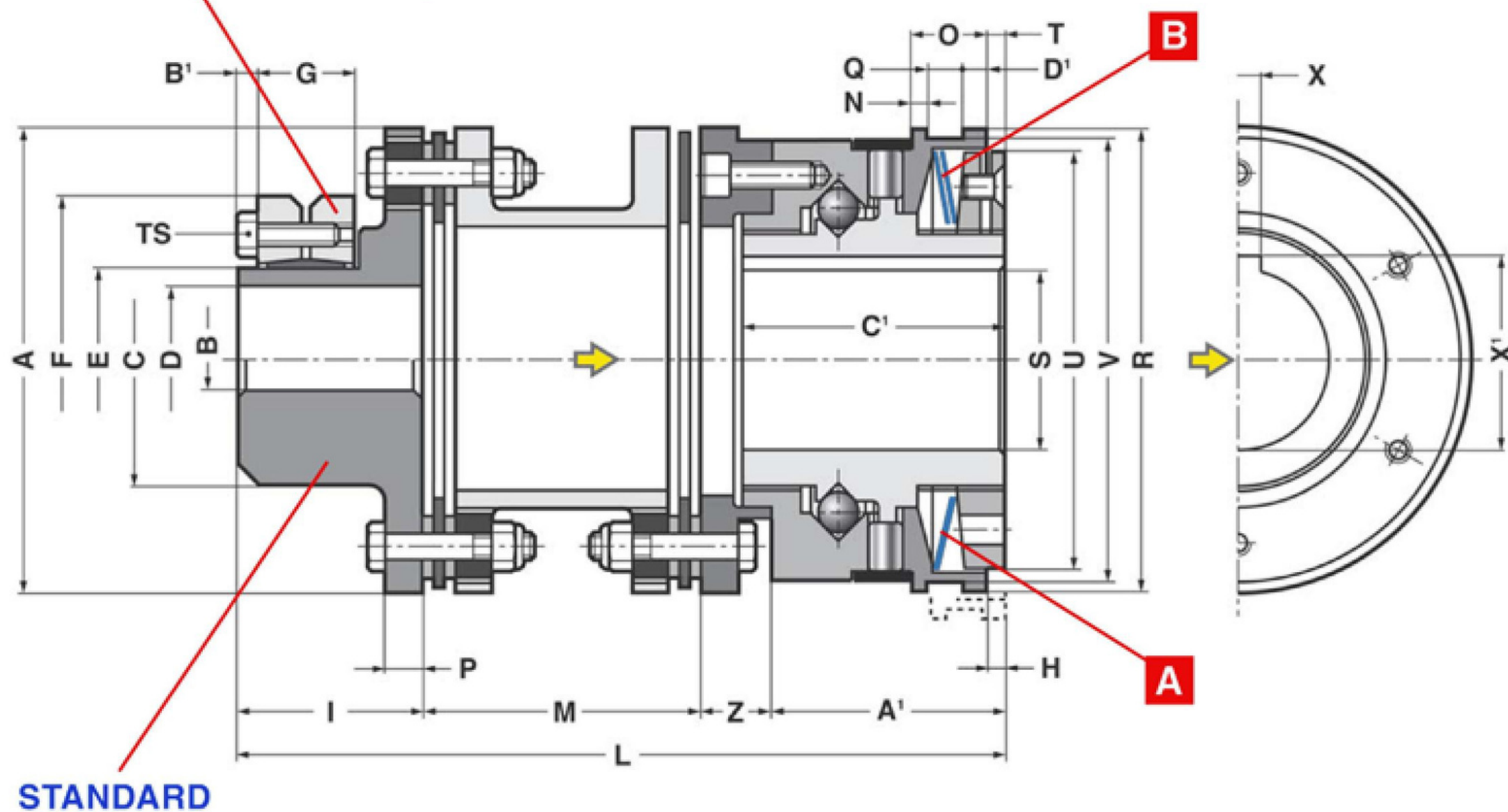
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Limitatori di coppia “senza gioco” - STANDARD con
giunto lamellare per collegamenti coassiali

*“Backlash-free” torque limiters - STANDARD with
laminar sprocket for coaxial connections*



A richiesta: Esecuzione K Ø...
K Ø... manufacture: on request



X - X1 - VALORI A NORME TAB. UNI 95
VALUES ACCORDING TO TAB. UNI 95 STANDARDS.

A ¹	B ¹	C ¹	D ¹	TS/C Nm	DISS.		
					Ang.	Rad.	Ass.
36	4 ¹ -4 ²	40	6	4 ¹ -4 ²	0°-45'	0,30	1,30
49	4 ¹ -4 ²	55	6	4 ¹ -12 ²	0°-45'	0,30	1,40
57	4 ¹ -4 ² -4 ³	65	6	4 ¹ -12 ² -12 ³	0°-45'	0,35	1,50
70	4 ¹ -4 ² -4 ³	80	8	12 ¹ -12 ² -12 ³	0°-45'	0,45	1,70
103	4 ¹ -6 ²	115	10	12 ¹ -30 ²	0°-45'	0,70	2,10

		A	B		C	D ^{H7}	E ^{H7}	F	G	H	I	L	M	N	O	P	Q	R	S ^{H7}	T	U	V	Z	kg
			min	max																				
18	A	83	10	25	42	19 ¹ -20 ¹	24 ¹	50 ¹	19 ¹	0,9	35	137	55	2	15	8	7	70	18-19	1	59	65	12	2,4
	B					24 ² -25 ²	30 ²	60 ²	21 ²									20						
24	A	98	10	30	56	24 ¹ -25 ¹	30 ¹	60 ¹	21 ¹	1,2	40	161	56	2,5	16	8	7,5	90	25-28	2	75	85	18	4,2
	B					28 ² -30 ²	36 ²	72 ²	23 ²									30						
35	A	115	15	35	63	25 ¹ -28 ¹	30 ¹ -36 ²	60 ¹ -72 ²	21 ¹ -23 ²	1,5	45	190	71	3	18	9	9	115	38-40	5	104	110	18	7,4
	B					30 ² -35 ³	44 ³	80 ³	25 ³									42-45						
40	A	145	20	45	77	35 ¹ -38 ²	44 ¹ -50 ²	80 ¹ -90 ²	25 ¹ -27 ²	1,6	55	236	90	4	21	12	9	140	45-48	7	129	135	22	14,5
	B					40 ² -42 ² -45 ³	55 ³	100 ³	30 ³									50-55						
60	A	205	30	65	112	50 ¹ -55 ¹	68 ¹	115 ¹	30 ¹	2,5	80	341	129	6	25	17	9	195	65-70	12	182	190	28	34
	B					60 ¹ -65 ²	80 ²	145 ²	32 ²									75-80						



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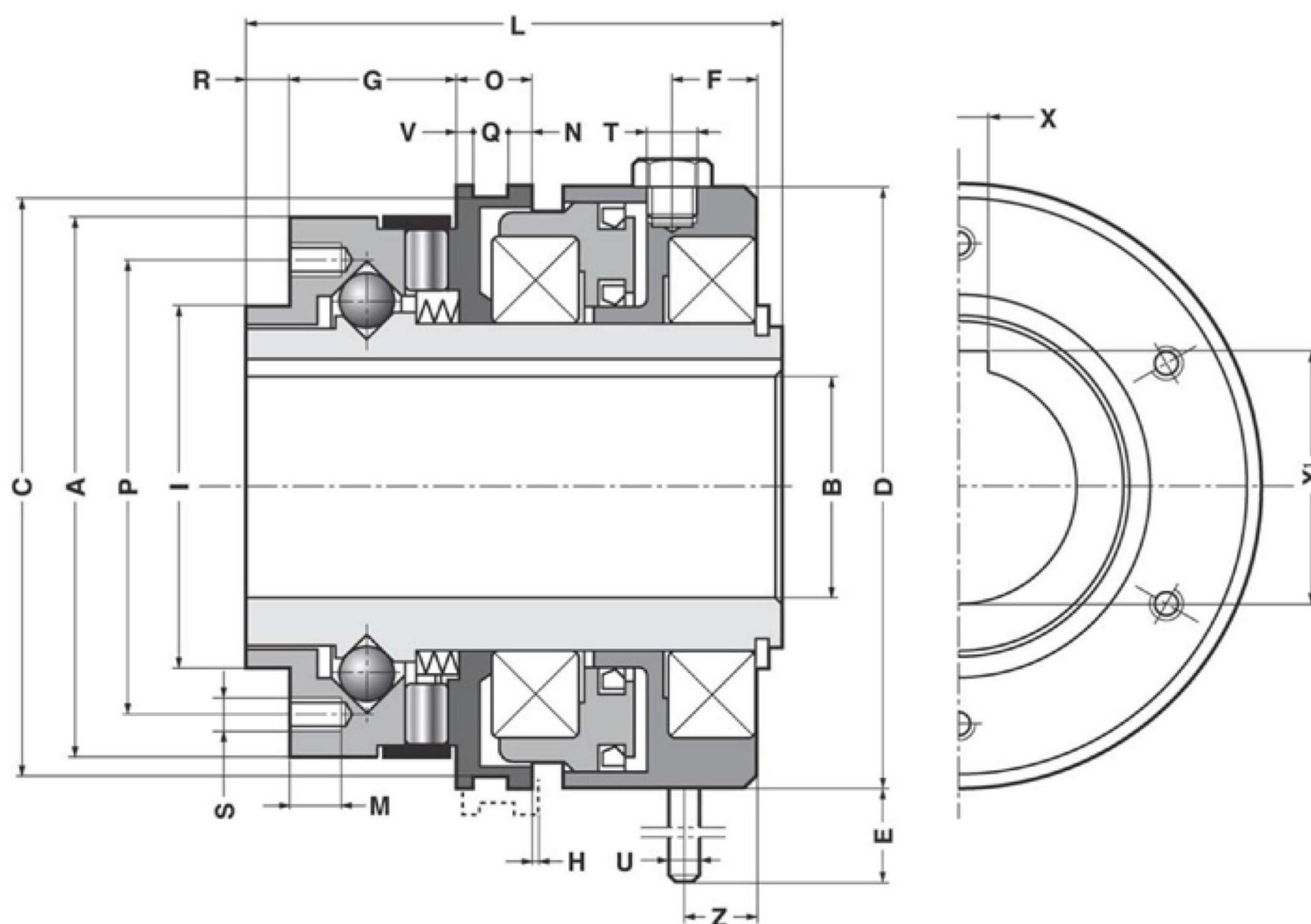


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Limitatori di coppia “senza gioco” a funzionamento pneumatico

“Backlash-free” torque limiters pneumatic version



X - X1 - VALORI A NORME TAB. UNI 95
VALUES ACCORDING TO TAB. UNI 95 STANDARDS.

	A	B ^{H7}	C	D	E	F	G	H	I ^{H7}	L	M	N	O	P	Q	R	S	T Gas	U	V	Z	kg
18	60	18-19-20	71	75	30	13	20	0,9	40	77,5	8	6	15	53	7,5	4	6 x M5	1/8"	6	1,5	6	1,2
24	85	25-28-30	90	95	40	14	31	1,2	55	96	10	6	15,5	69	7,5	6	6 x M6	1/8"	6	2	7	3,1
35	109	38-40-42-45	115	120	50	17	35	1,5	72	107	10	6	17	90	9	8	6 x M6	1/8"	8	2	8	5,8
40	135	45-48-50-55	140	145	60	21	42	1,6	92	134	14	8	20	112	9	10	6 x M8	1/8"	10	3	10	11
60	185	65-70-75-80	190	195	80	29	67	2,5	140	184	24	10	25	168	9	12	6 x M10	1/4"	12	6	14	28



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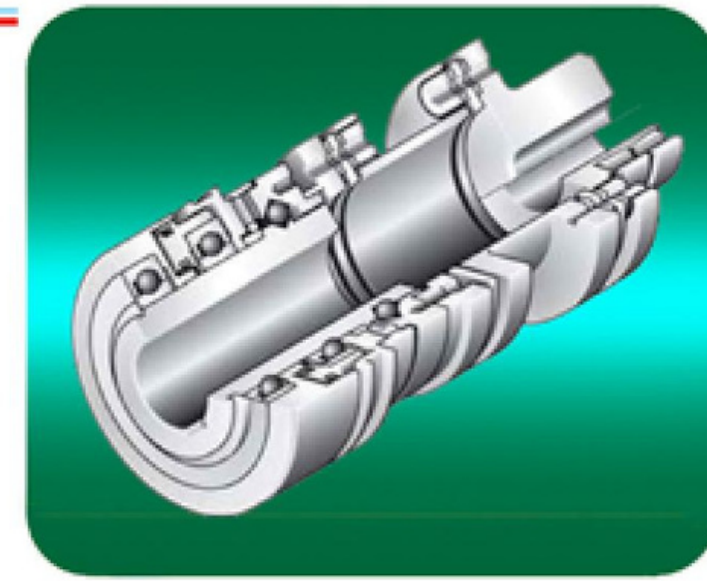
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"Backlash-free" torque limiters pneumatic version with laminar sprocket for coaxial connections



STANDARD

A¹	B¹	C¹	D¹	E¹ Gas	F¹	G¹	H¹	DISS.		
								Ang.	Rad.	Ass.
68,5	4¹-4²	77,5	6	1/8"	32	1,5	6	0°-45'	0,30	1,30
84	4¹-4²	96	6	1/8"	49	2	7	0°-45'	0,30	1,40
92	4¹-4²-4³	107	8	1/8"	53	2	8	0°-45'	0,35	1,50
116	4¹-4²-4³	134	10	1/8"	64	3	10	0°-45'	0,45	1,70
163	4¹-6²	184	12	1/4"	94	6	14	0°-45'	0,70	2,10

	A	B		C	D ^{H7}	E ^{H7}	F	G	H	I	L	M	N	O	P	Q	R	S ^{H7}	T	U	V	Z	kg
		Ø	max																				
18	83	10	25	42	19 ¹ -20 ¹ 24 ² -25 ²	24 ¹ 30 ²	50 ¹ 60 ²	19 ¹ 21 ²	0,9	35	175,5	55	6	15	8	7,5	75	18-19 20	13	30	71	12	2,9
24	98	10	30	56	24 ¹ -25 ¹ 28 ² -30 ²	30 ¹ 36 ²	60 ¹ 72 ²	21 ¹ 23 ²	1,2	40	203	56	6	15.5	8	7,5	95	25-28 30	14	40	90	18	5,7
35	115	15	35	63	25 ¹ -28 ¹ 30 ² -35 ²	30 ¹ -36 ² 44 ³	60 ¹ -72 ² 80 ³	21 ¹ -23 ² 25 ³	1,5	45	232	71	6	17	9	9	120	38-40 42-45	17	50	115	18	9,6
40	145	20	45	77	35 ¹ -38 ² 40 ² -42 ² -45 ³	44 ¹ -50 ² 55 ³	80 ¹ -90 ² 100 ³	25 ¹ -27 ² 30 ³	1,6	55	290	90	8	20	12	9	145	45-48 50-55	21	60	140	22	18,8
60	205	30	65	112	50 ¹ -55 ¹ 60 ¹ -65 ²	68 ¹ 80 ²	115 ¹ 145 ²	30 ¹ 32 ²	2,5	80	410	129	10	25	17	9	195	65-70 75-80	29	80	190	28	49



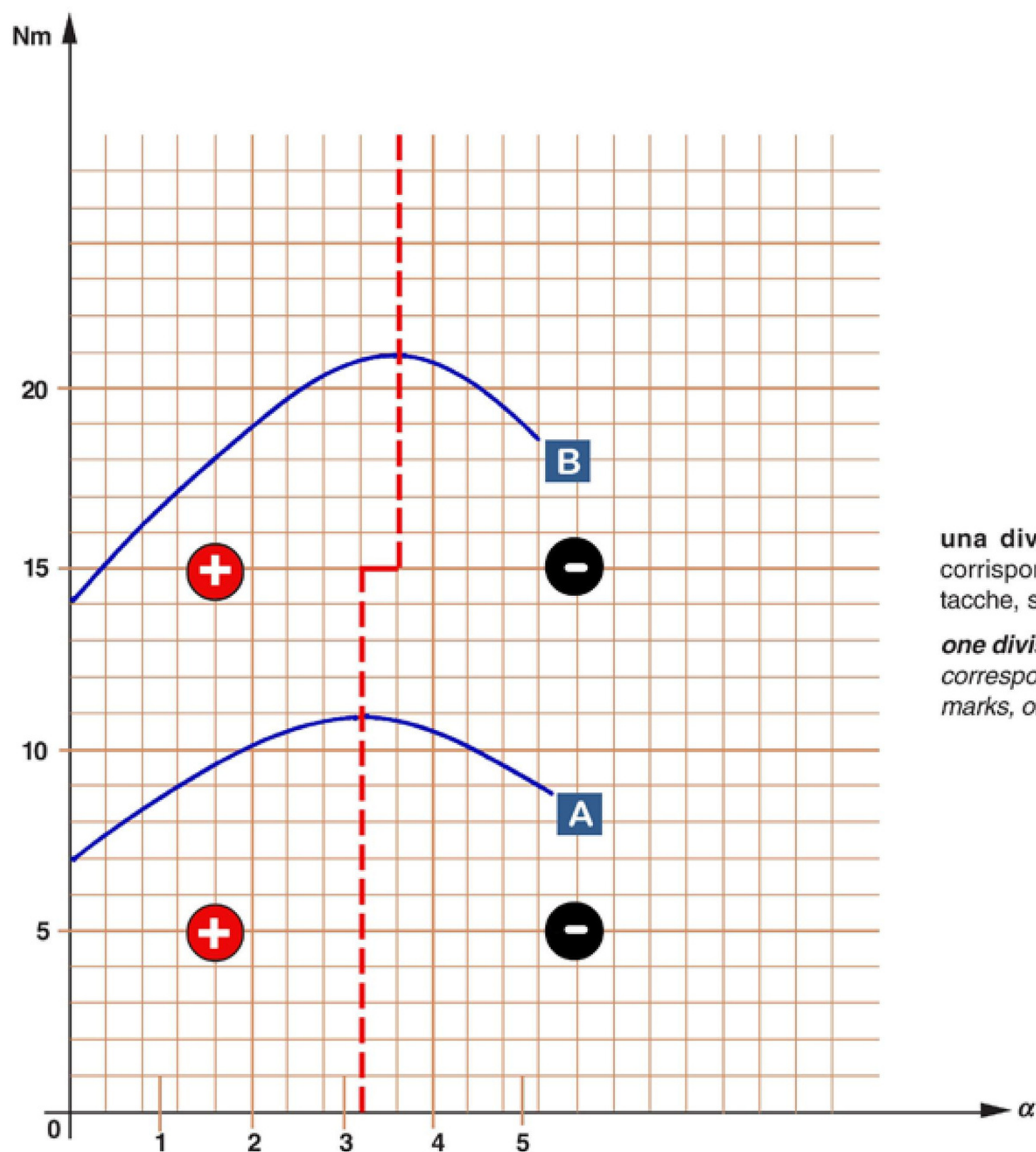
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Diagramma coppie

Torques diagrams

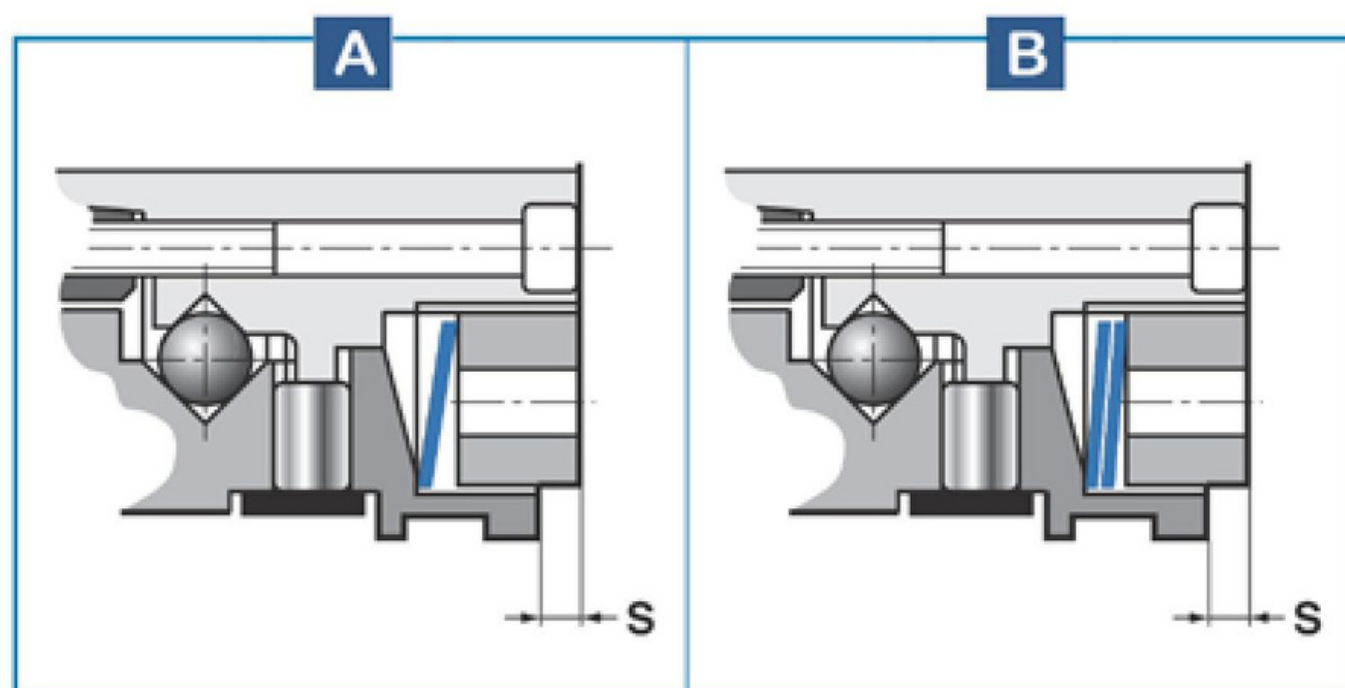
Valori di carico variabili secondo Norme:
Varying load readings in accordance with Regulations: **UNI 8736-7, DIN 2093**



una divisione = 60°
corrispondente a n° 2
tacche, sul dispositivo.

one division = 60°
corresponding to no. 2
marks, on the device.

		S (mm)	
N	α°	A	B
0	0	1	1,5
1	60	0,75	1,25
2	120	0,50	1
3	180	0,25	0,75
4	240	0	0,50
5	300	-0,25	0,25



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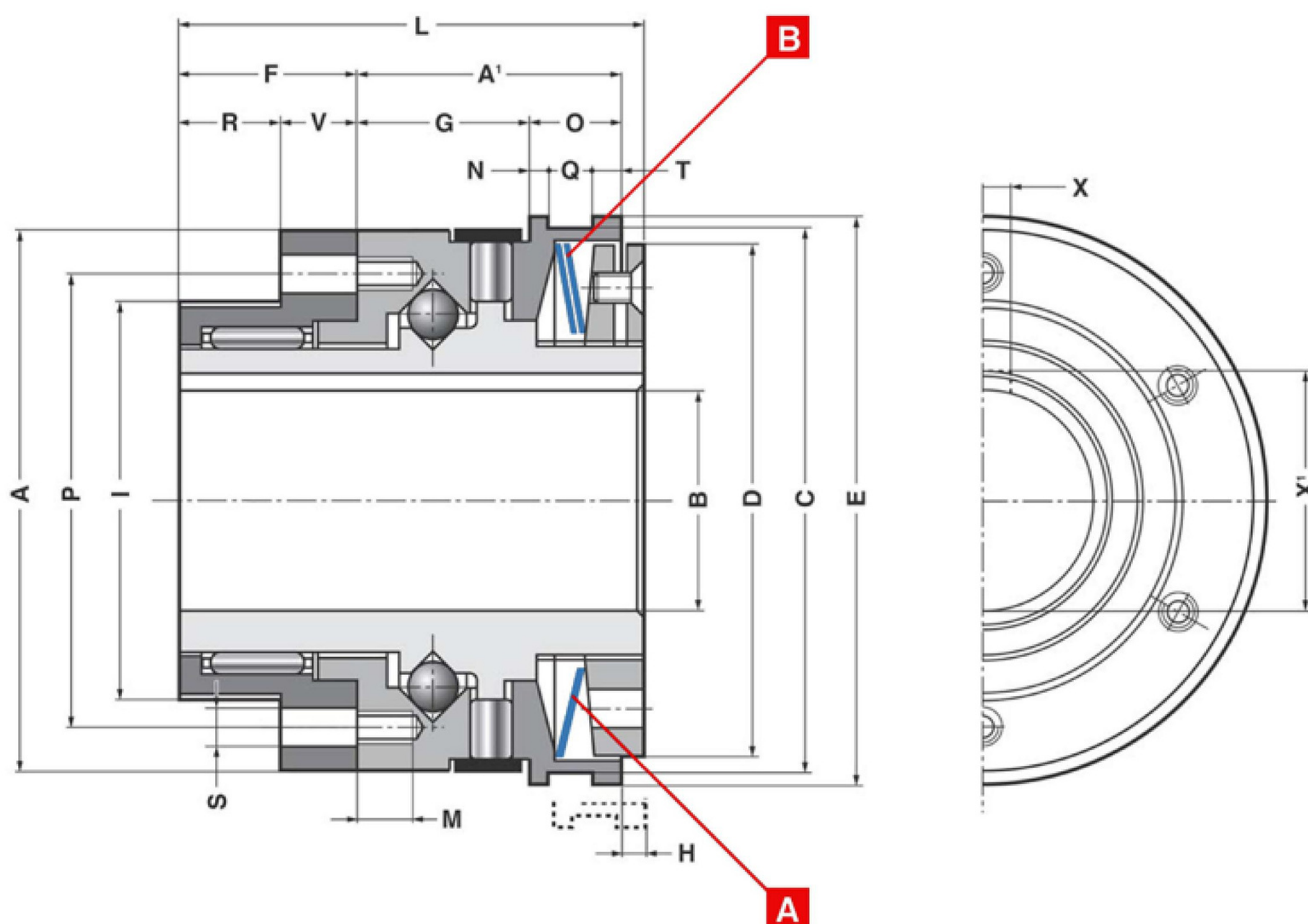


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Limitatori di coppia “senza gioco” con mozzo prolungato portante corto

“Backlash-free” torque limiters with extended supporting short hub



X - X1 - VALORI A NORME TAB. UNI 95
VALUES ACCORDING TO TAB. UNI 95 STANDARDS.

		A	A'	B ^{H7}	C	D	E	F	G	H	I ^{H7}	L	M	N	O	P	Q	R	S	T	V	Kg
18	A B	60	35	18-19-20	65	59	70	20	20	0,9	45	55	8	2	15	53	7	12	6 x M5	6	8	-
24	A B	85	47	25-28-30	85	75	90	29	31	1,2	60	72	10	2,5	16	69	7,5	17	6 x M6	6	12	-
35	A B	109	52	38-40-42-45	110	104	115	35	34	1,5	80	90	10	3	18	90	9	20	6 x M6	6	15	-
40	A B	135	63	45-48-50-55	135	129	140	38	42	1,6	100	107	14	4	21	112	9	23	6 x M8	8	15	-
60	A B	185	91	65-70-75-80	190	182	195	50	66	2,5	135	152	24	6	25	168	9	30	6 x M10	10	20	-



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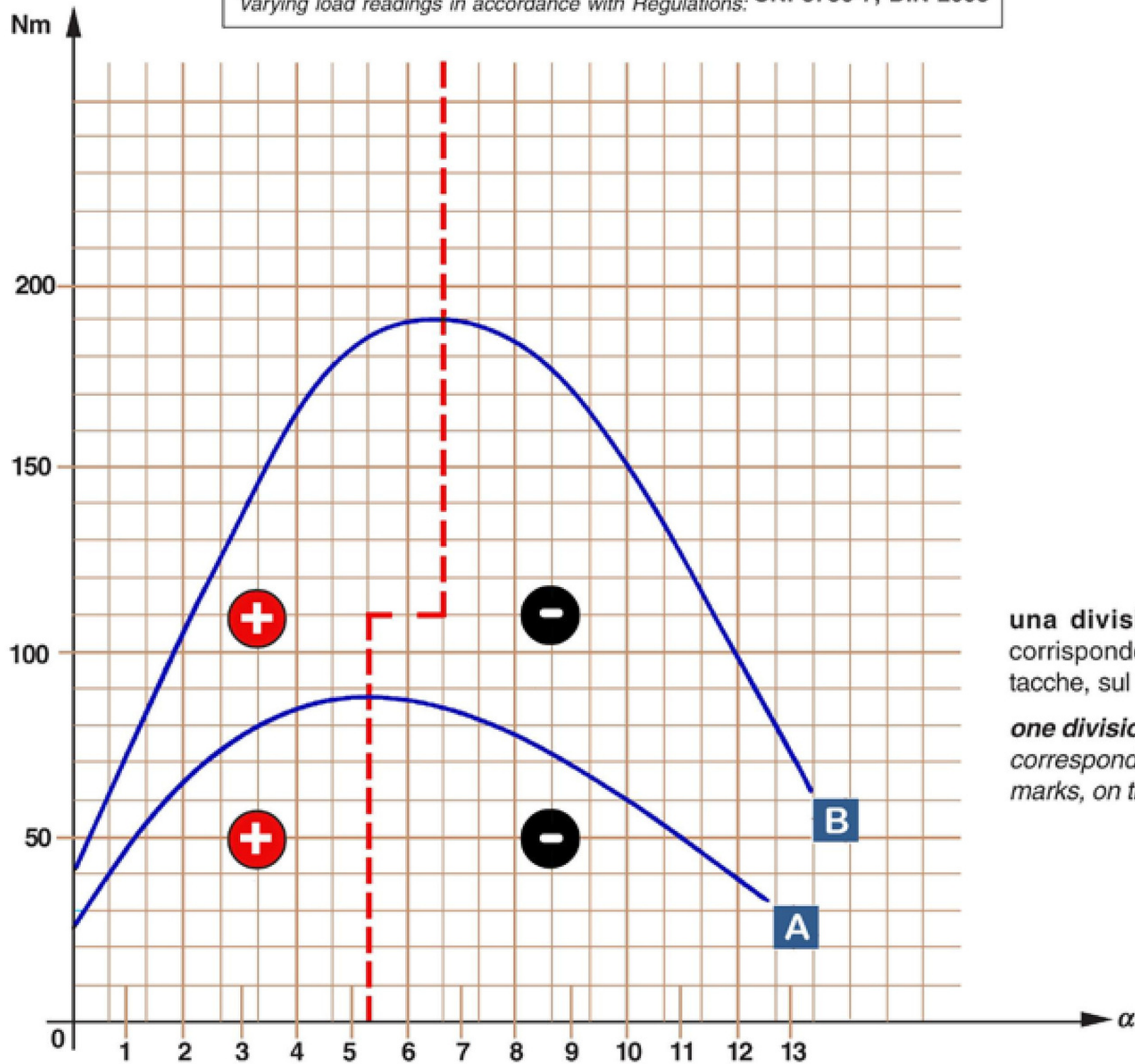
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Diagramma coppie

Torques diagrams

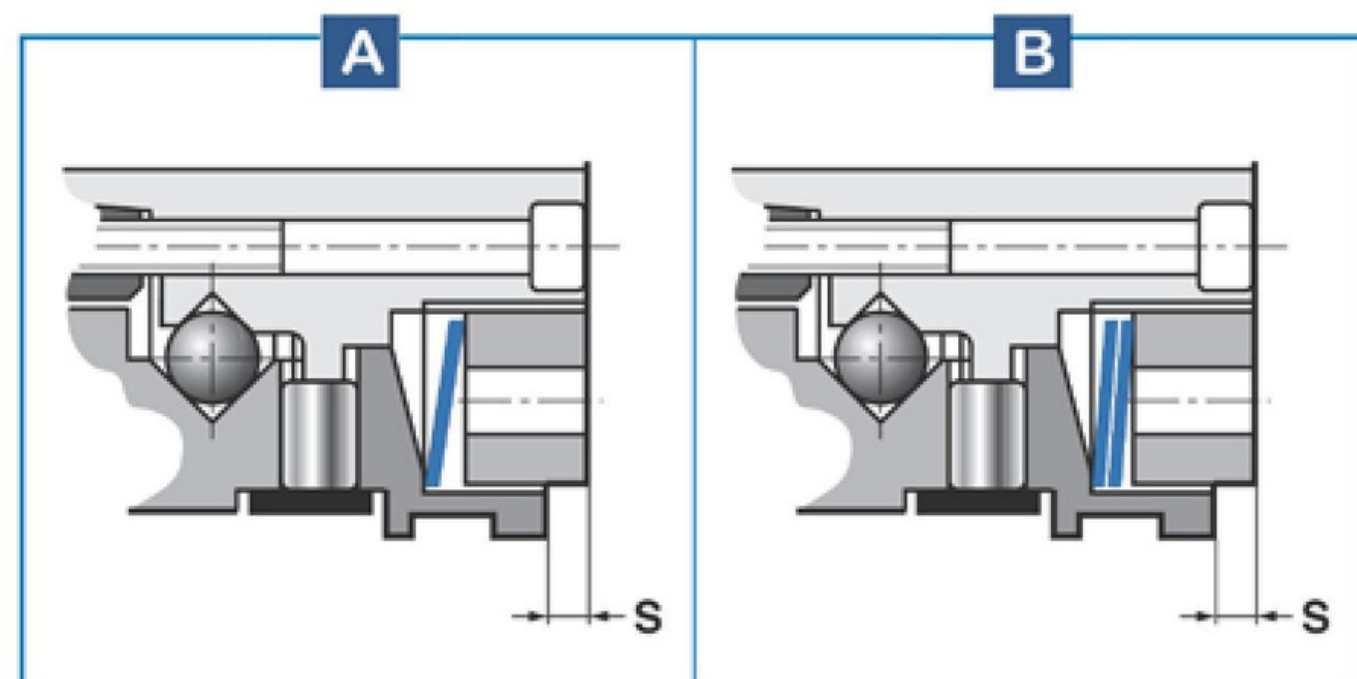
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Varying load readings in accordance with Regulations: UNI 8736-7, DIN 2093



una divisione = 60°
corrispondente a n° 2
tacche, sul dispositivo.

one division = 60°
corresponding to no. 2
marks, on the device.

		S (mm)	
N	α°	A	B
0	0	0,4	1,7
1	60	0,15	1,45
2	120	-0,10	1,20
3	180	-0,35	0,95
4	240	-0,6	0,70
5	300	-0,85	0,45
6	360	-1,10	0,20
7	420	-1,35	-0,05
8	480	-1,6	-0,30
9	540	-1,85	-0,55
10	600	-2,10	-0,80
11	660	-2,35	-1,05
12	720	-2,6	-1,3
13	780	-	-1,55



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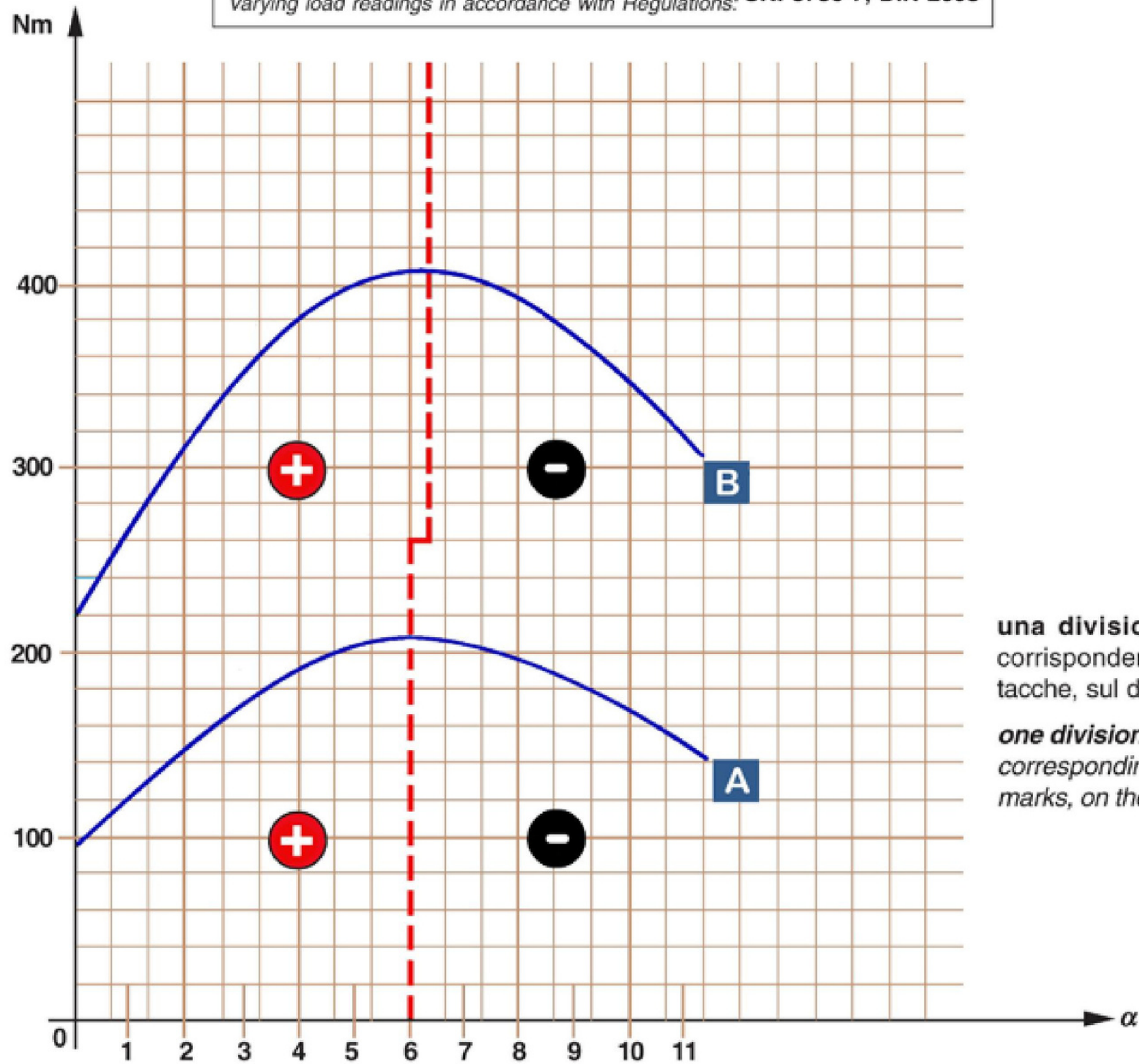
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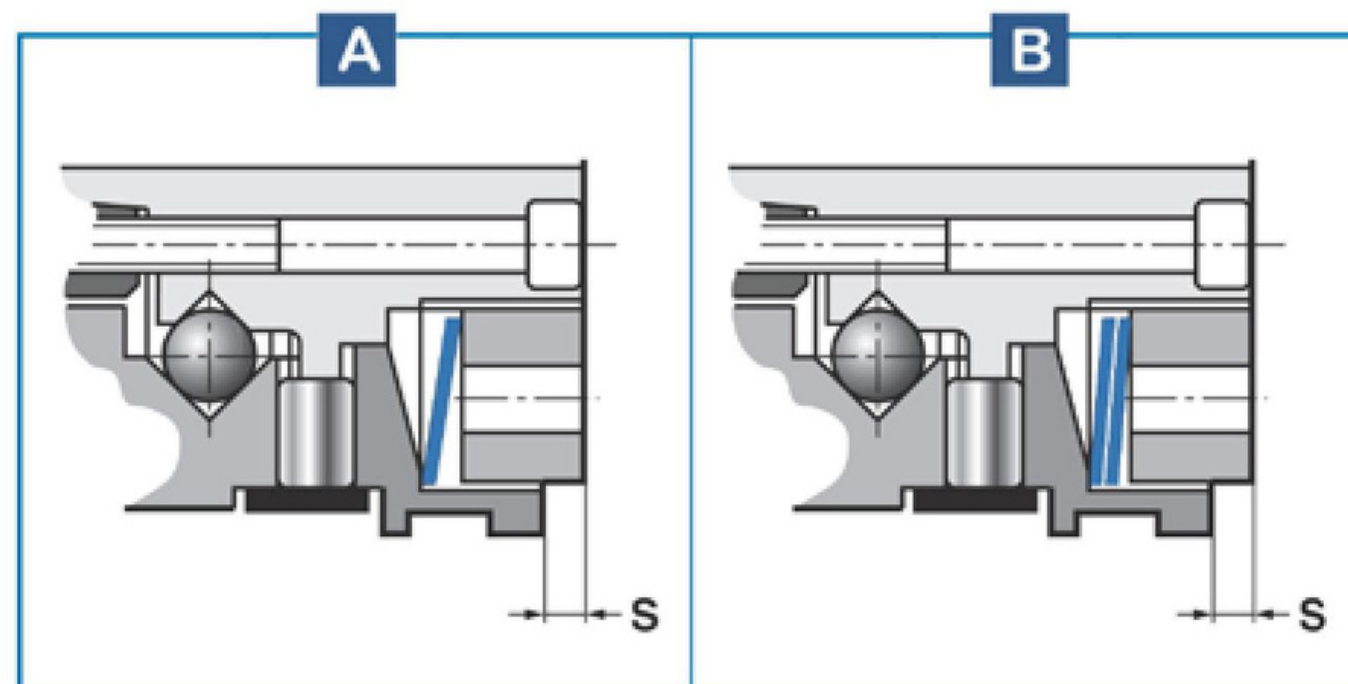
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SGR - AMK - AMT/35**Diagramma coppie****Torques diagrams**

Valori di carico variabili secondo Norme:
 Varying load readings in accordance with Regulations: **UNI 8736-7, DIN 2093**



		S (mm)	
N	α°	A	B
0	0	3,5	4,8
1	60	3,25	4,55
2	120	3	4,30
3	180	2,75	4,05
4	240	2,5	3,8
5	300	2,25	3,55
6	360	2	3,30
7	420	1,75	3,05
8	480	1,5	2,80
9	540	1,25	2,55
10	600	1	2,30
11	660	0,75	2,05



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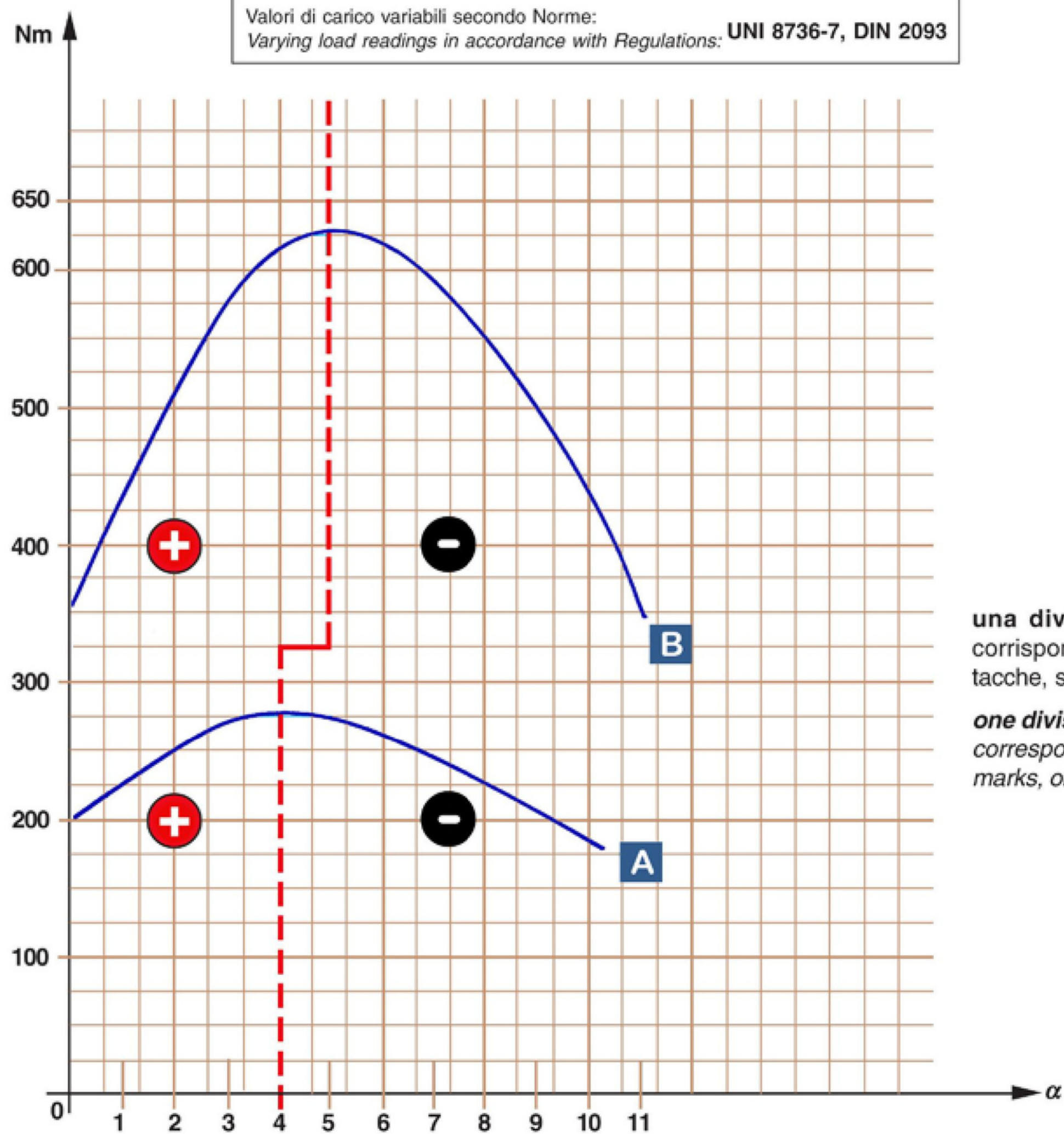
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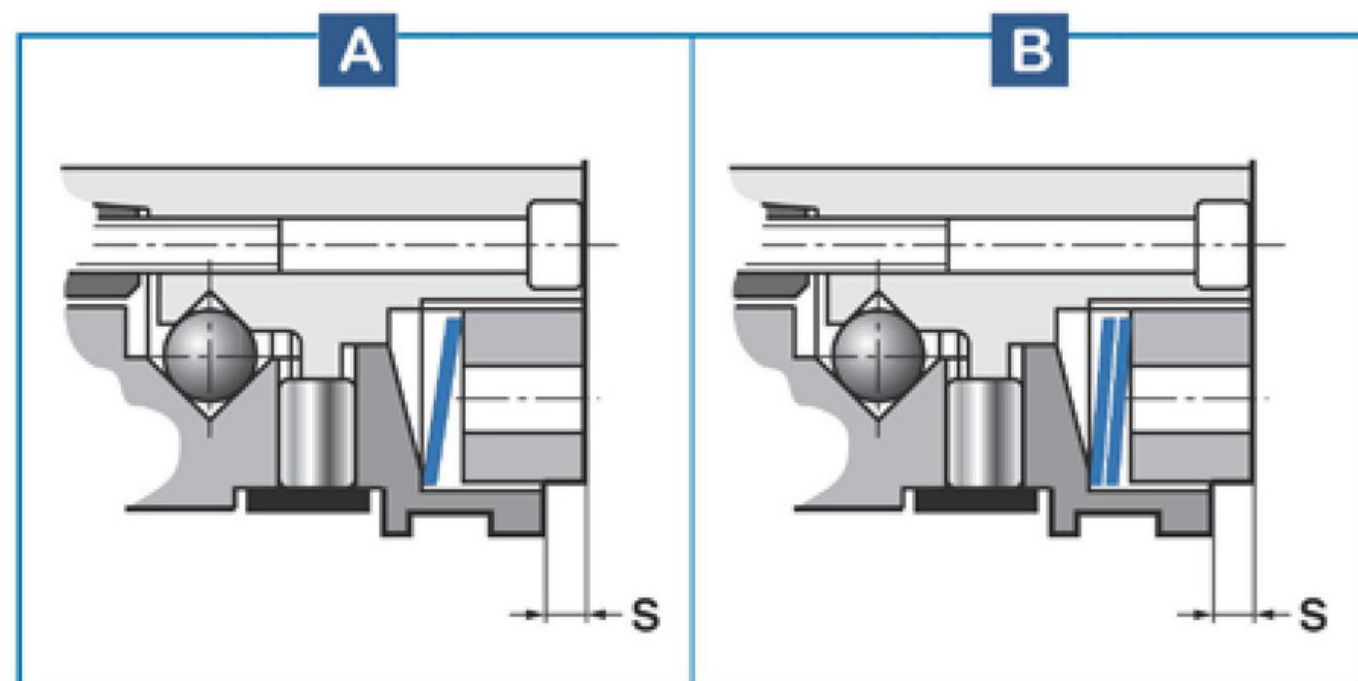
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SGR - AMK - AMT/40**Diagramma coppie****Torques diagrams**

una divisione = 60°
 corrispondente a n° 2
 tacche, sul dispositivo.

one division = 60°
 corresponding to no. 2
 marks, on the device.

		S (mm)	
N	α°	A	B
0	0	2,1	4,2
1	60	1,85	3,95
2	120	1,6	3,7
3	180	1,35	3,45
4	240	1,10	3,2
5	300	0,85	2,95
6	360	0,6	2,70
7	420	0,35	2,45
8	480	0,10	2,20
9	540	-0,15	1,95
10	600	-0,4	1,70
11	660	-	1,45



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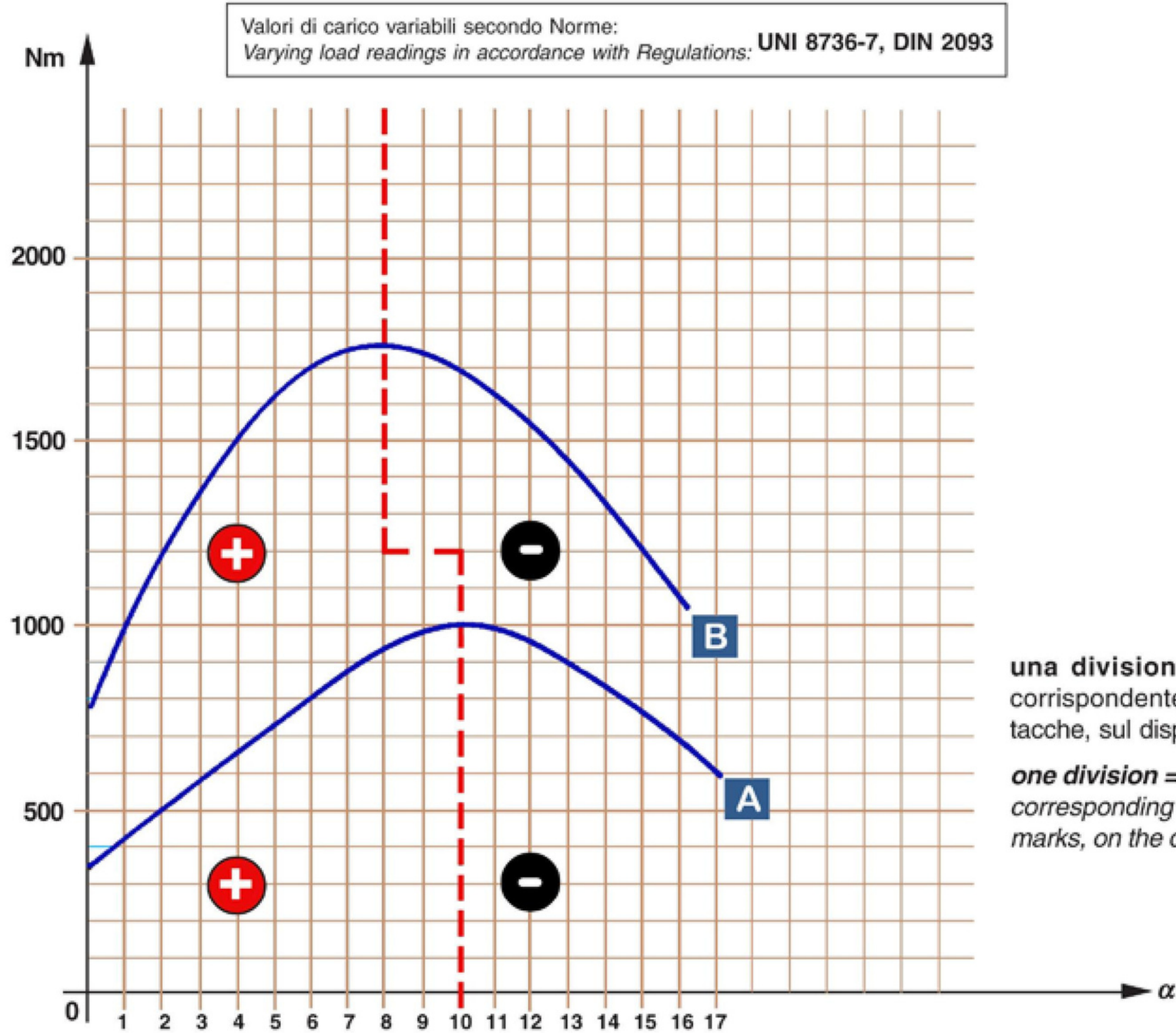
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Tel: +44(0) 1663 734 627

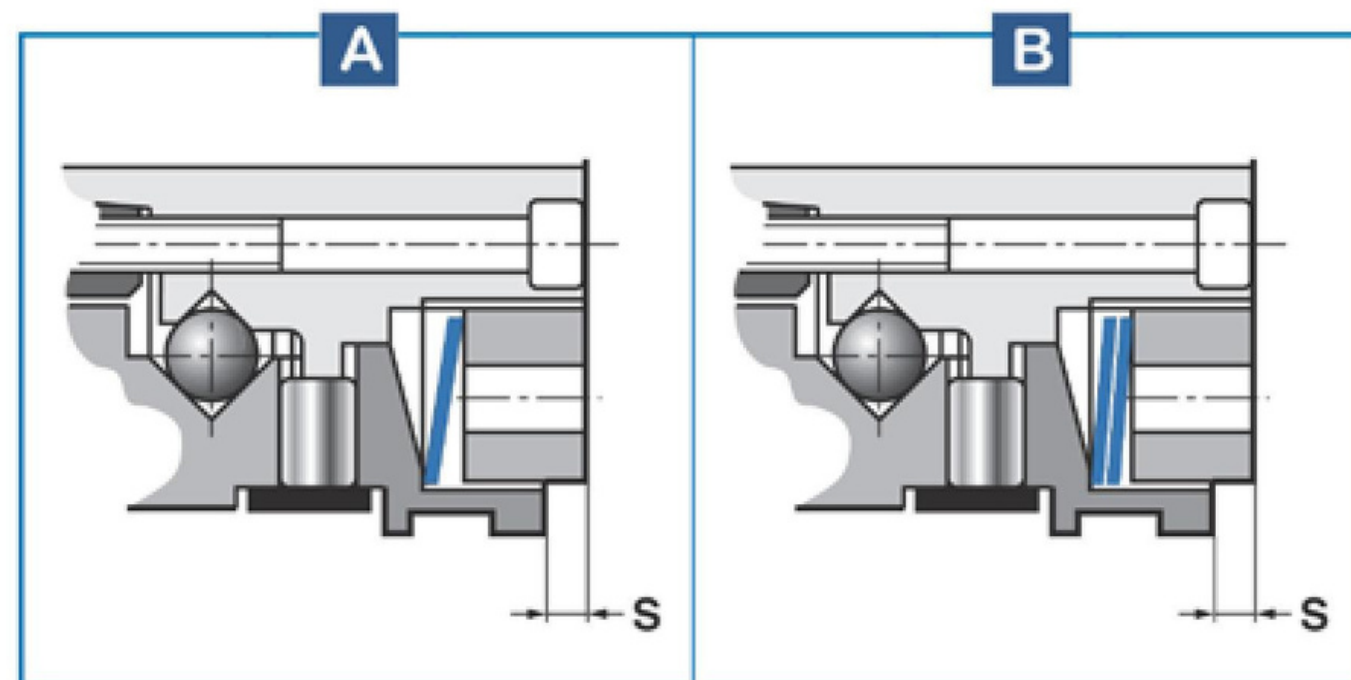
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SGR - AMK - AMT/60**Diagramma coppie****Torques diagrams**

		S (mm)	
N	α°	A	B
0	0	8,5	10,4
1	60	8,25	10,15
2	120	8	9,80
3	180	7,75	9,65
4	240	7,50	9,40
5	300	7,25	9,15
6	360	7	8,90
7	420	6,75	8,65
8	480	6,5	8,40
9	540	6,25	8,15
10	600	6	7,9
11	660	5,75	7,65
12	720	5,50	7,4
13	780	5,25	7,15
14	840	5	6,9
15	900	4,75	6,65
16	960	4,50	-
17	1.020	4,25	-



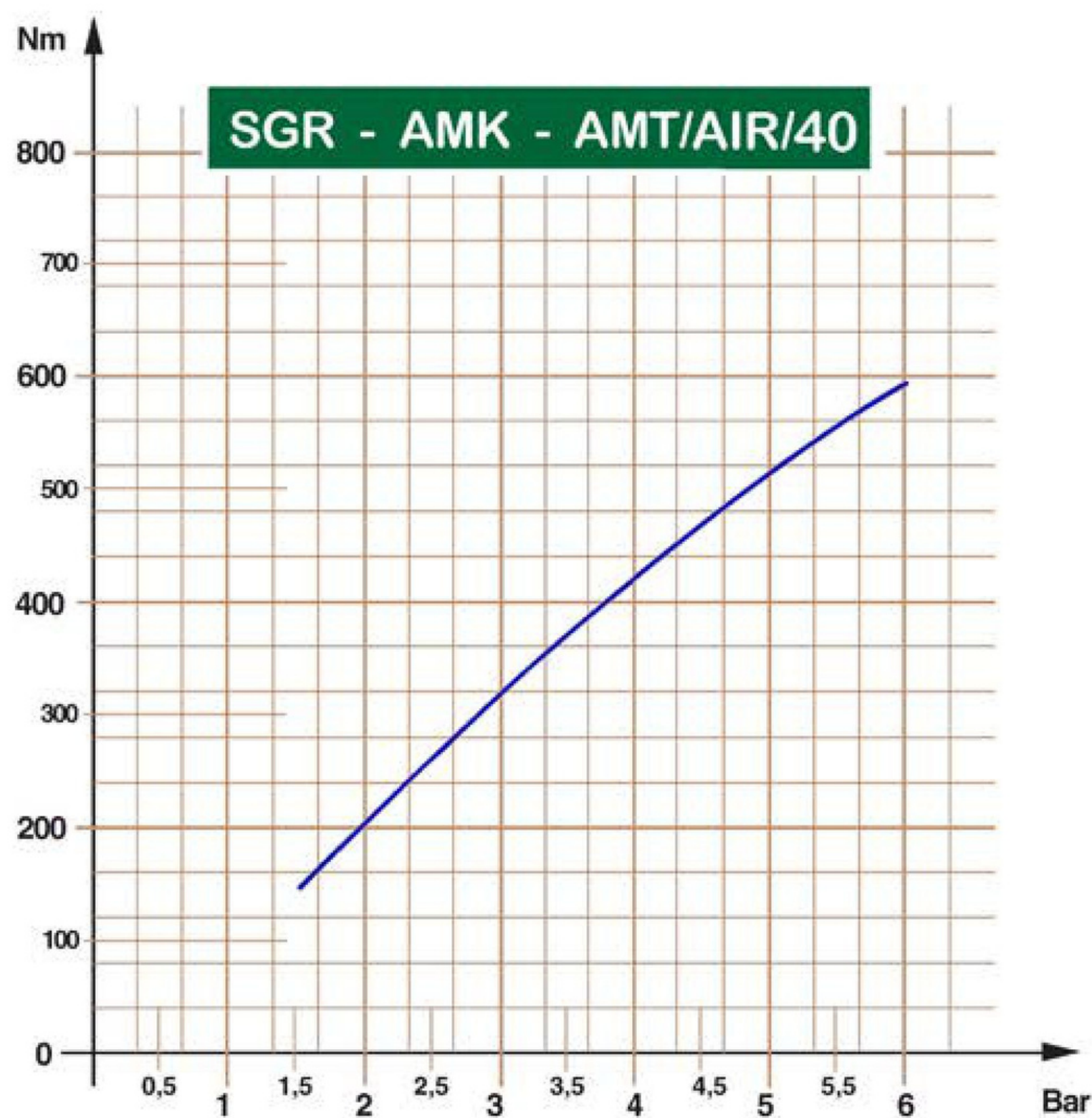
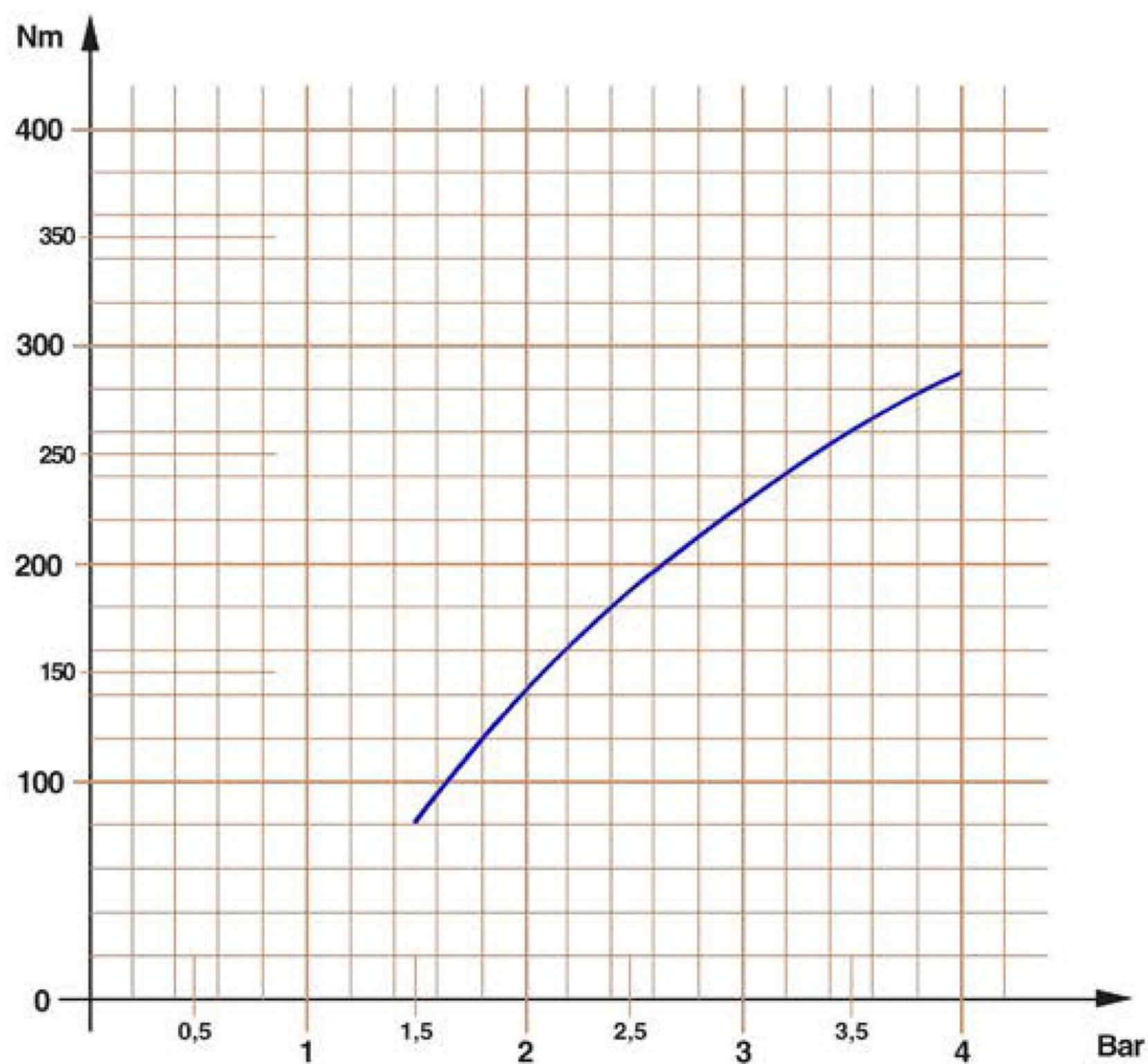


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Diagramma coppie

Torques diagrams



una divisione = 60°
corrispondente a n° 2
tacche, sul dispositivo.

one division = 60°
corresponding to no. 2
marks, on the device.



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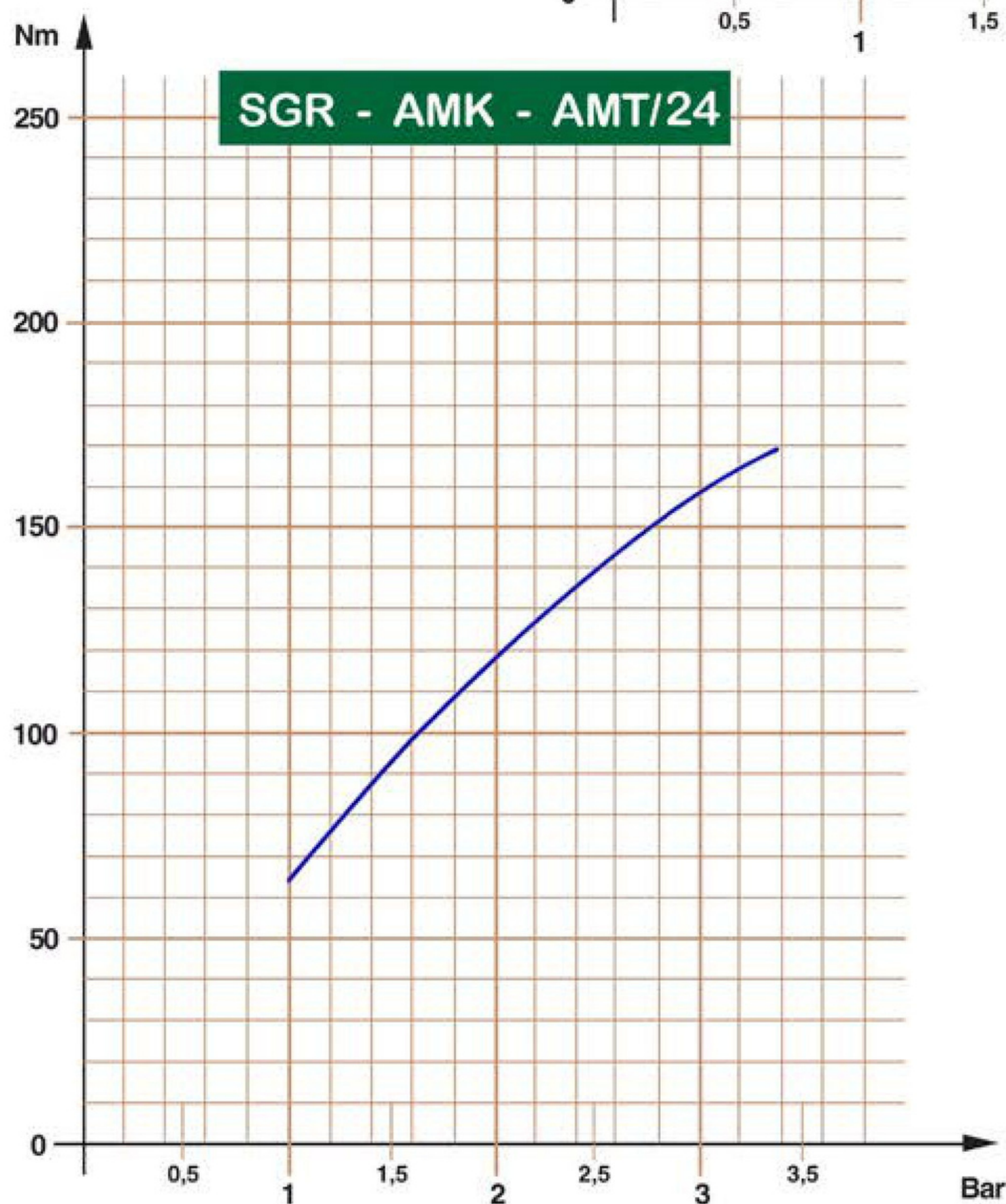
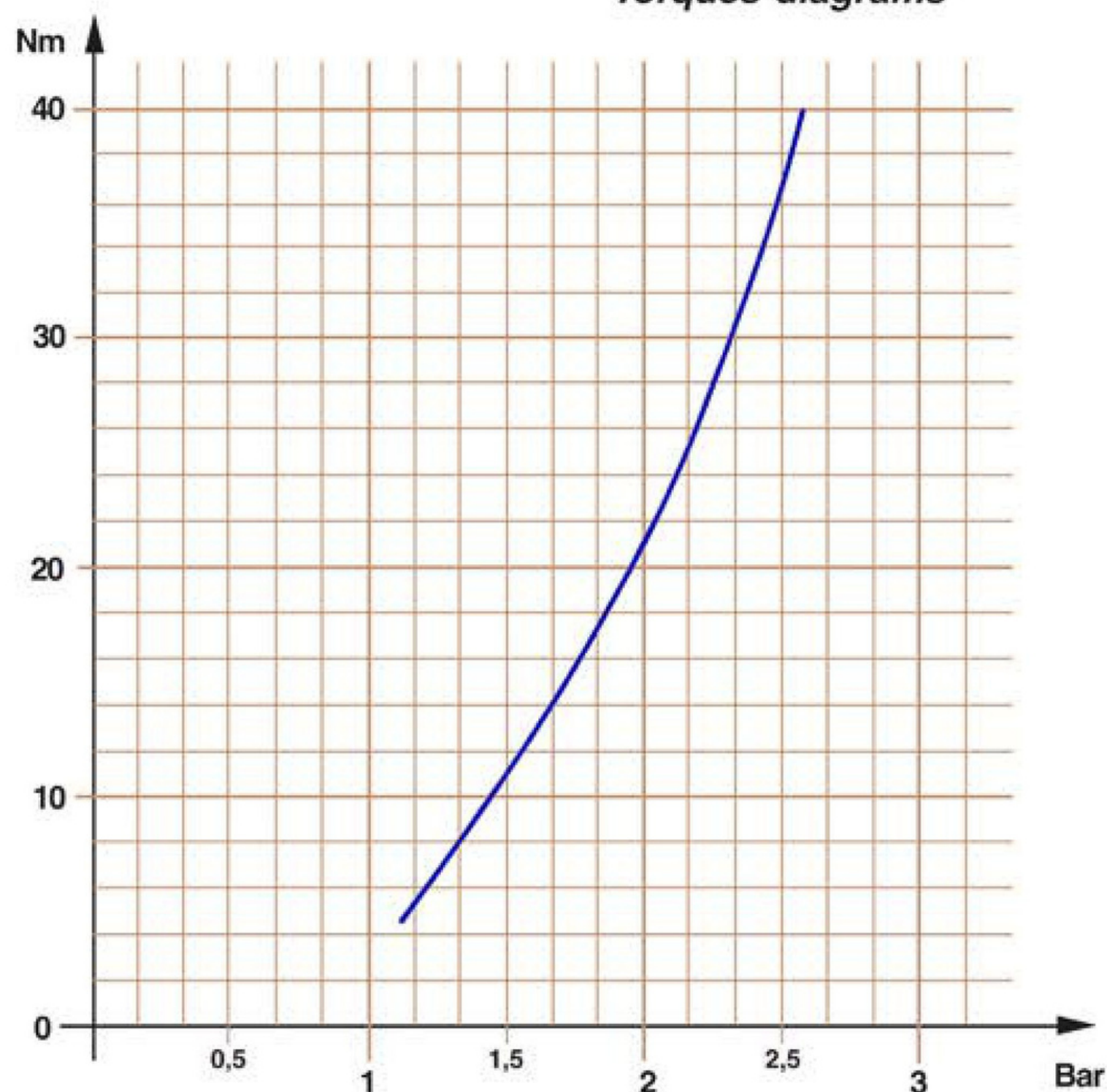


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Diagramma coppie

Torques diagrams



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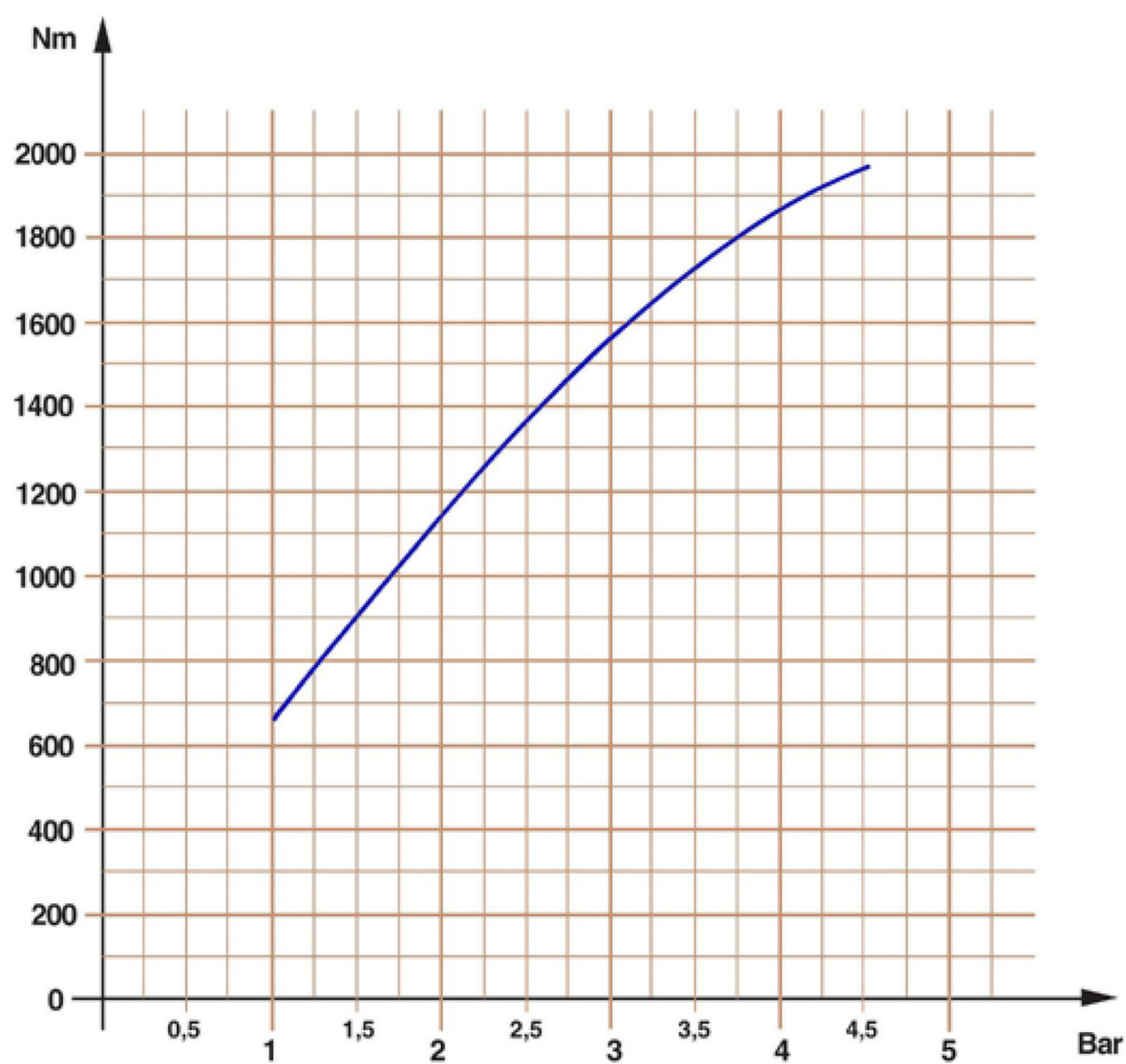


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Diagramma coppie

Torques diagrams



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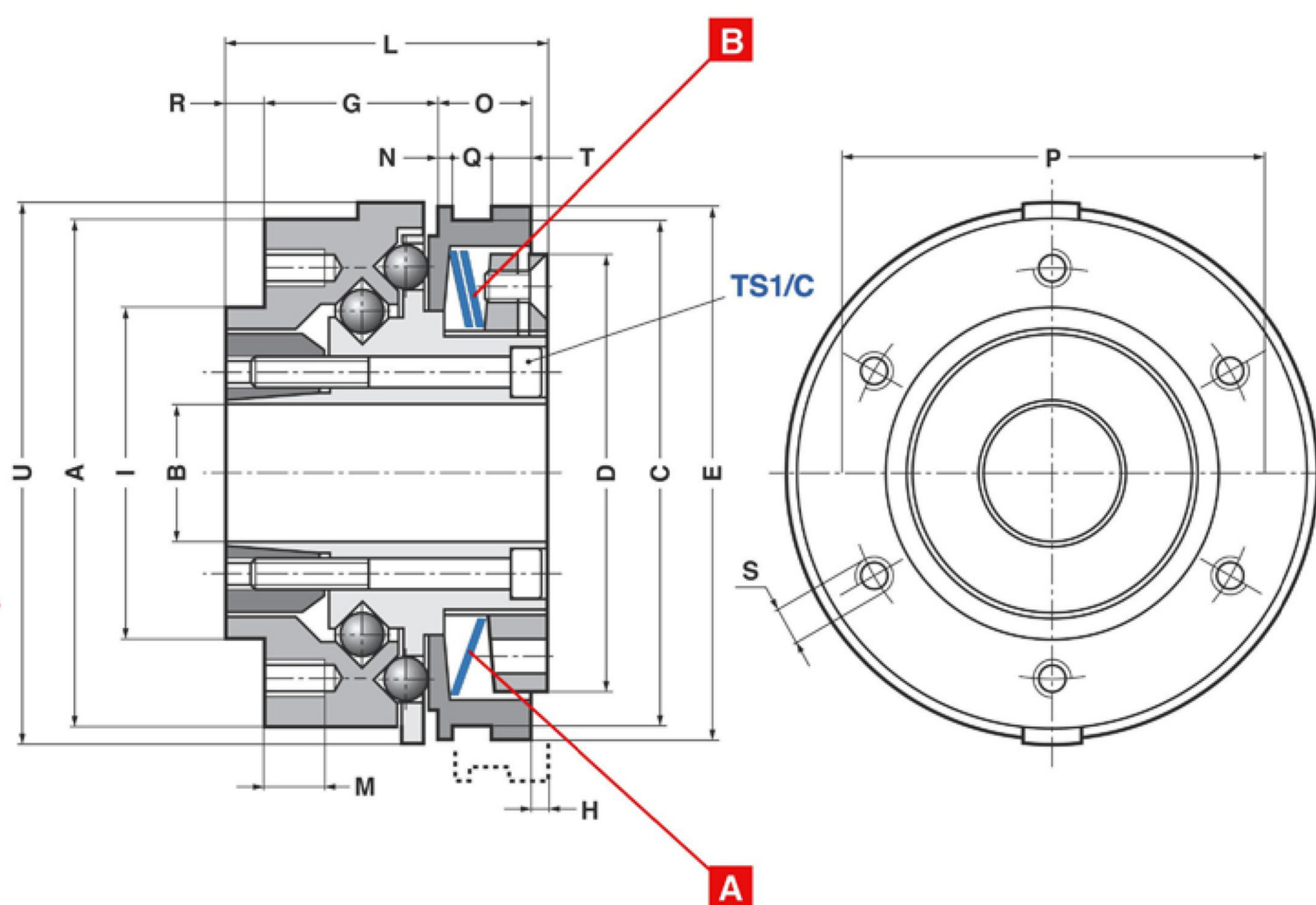
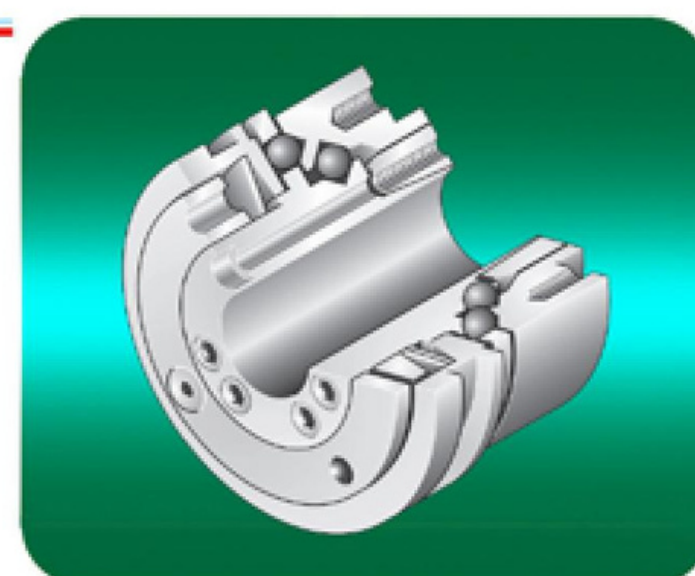


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Limitatori di coppia “senza gioco” con antiritorno per movimenti verticali

“Backlash-free” torque limiters with no-return system for vertical movements



		A	B ^{H7}	C	D	E	G	H	I ^{H7}	L	M	N	O	P	Q	R	S 6x60°	T	U	TS1/C Nm	kg
18	A	60	15 - 18 - 19	65	59	70	16	1,4	40	40	8	4,5	18	53	7,5	4	M5	6	67	4	-
	B																				
24	A	85	19 - 20 - 24 - 25	85	75	90	26,5	1,8	55	55	10	6	19,5	69	7,5	6	M6	6	92	5	-
	B																				
35	A	108	28 - 30 - 35 - 38	110	104	115	30	2,3	72	65	10	8	23	90	9	8	M6	6	116	14	-
	B																				
40	A	135	35 - 38 - 40 - 42	135	129	140	37,5	3	92	80	14	10	27	112	9	10	M8	8	144	26	-
	B																				



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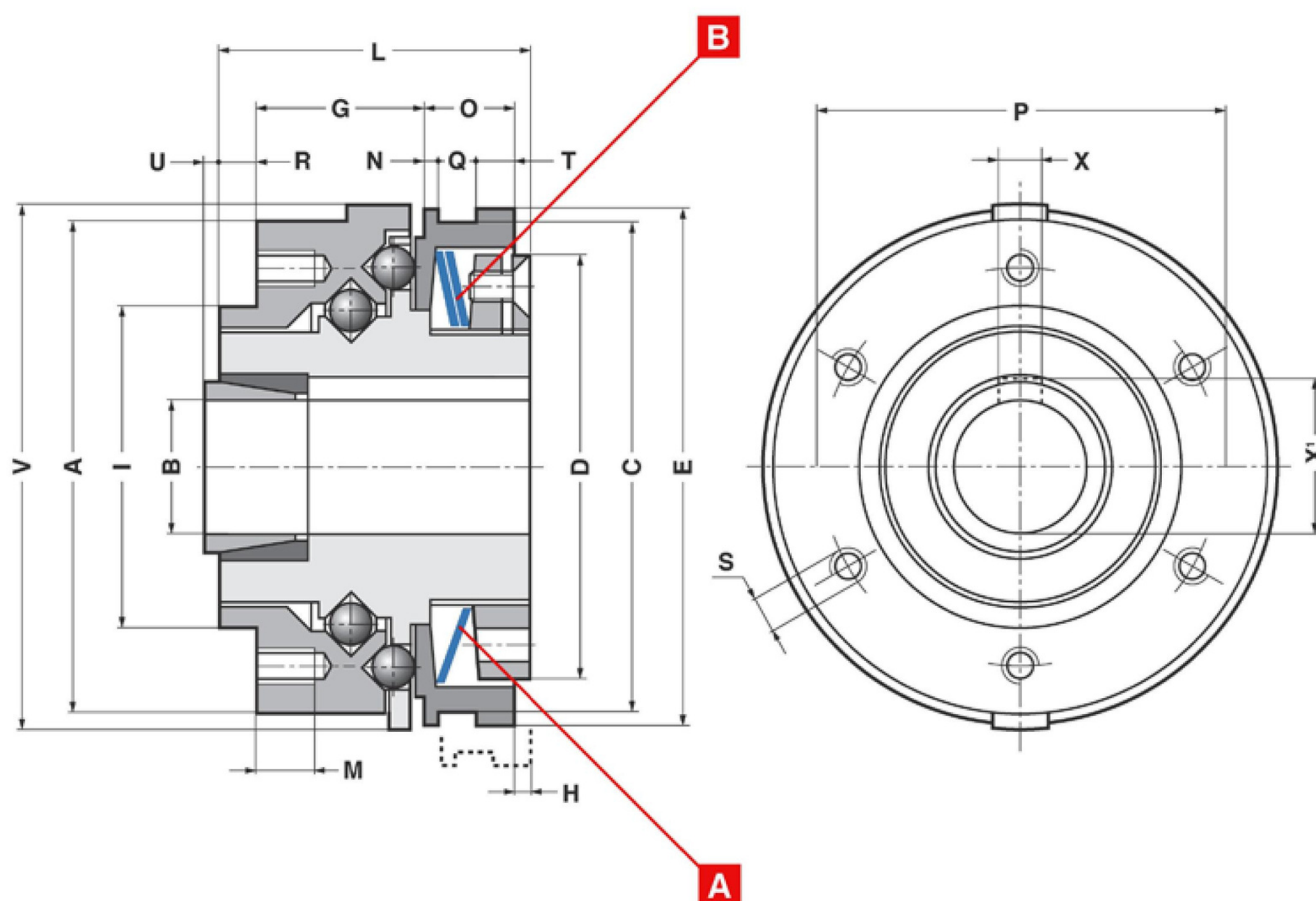
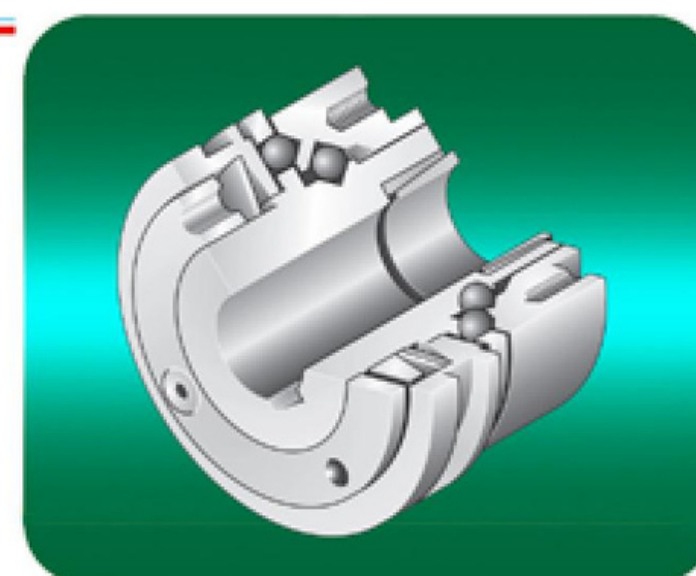


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Limitatori di coppia “senza gioco” con antiritorno per
movimenti verticali

*“Backlash-free” torque limiters with no-return system
for vertical movements*



X - X1 - VALORI A NORME TAB. UNI 95
VALUES ACCORDING TO TAB. UNI 95 STANDARDS.

		A	B ^{H7}	C	D	E	G	H	I ^{h7}	L	M	N	O	P	Q	R	S 6x60°	T	U	V	Z	kg
18	A	60	18-19-20	65	59	70	16	1,4	40	40	8	4,5	18	53	7,5	4	M5	6	2	67	14	-
	B																					
24	A	85	25-28-30	85	75	90	26,5	1,8	55	55	10	6	19,5	69	7,5	6	M6	6	2	92	18	
	B																					
35	A	108	38-40-42-45	110	104	115	30	2,3	72	65	10	8	23	90	9	8	M6	6	2	116	22	-
	B																					
40	A	135	45-48-50-55	135	129	140	37,5	3	92	80	14	10	27	112	9	10	M8	8	2	144	27	-
	B																					



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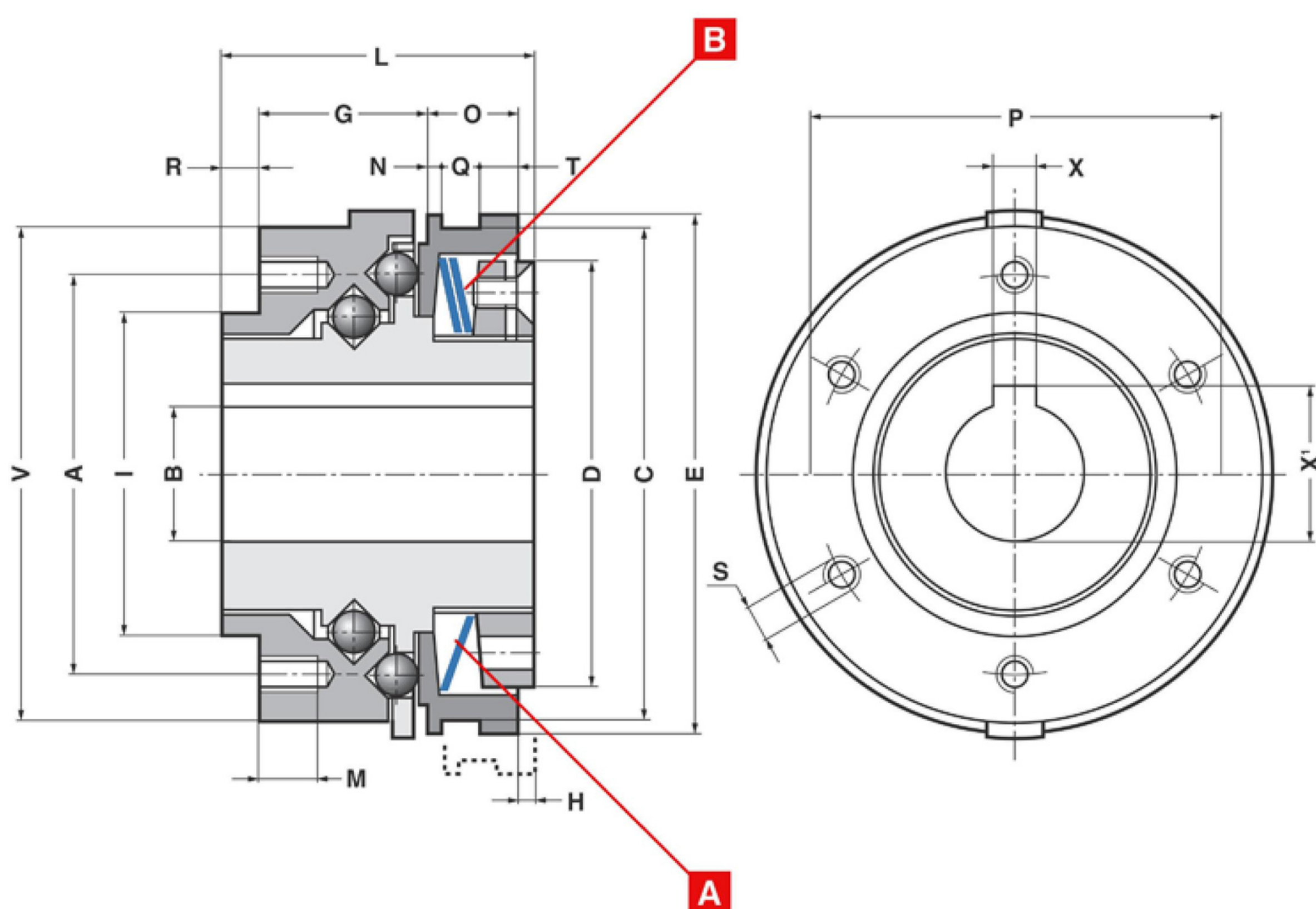
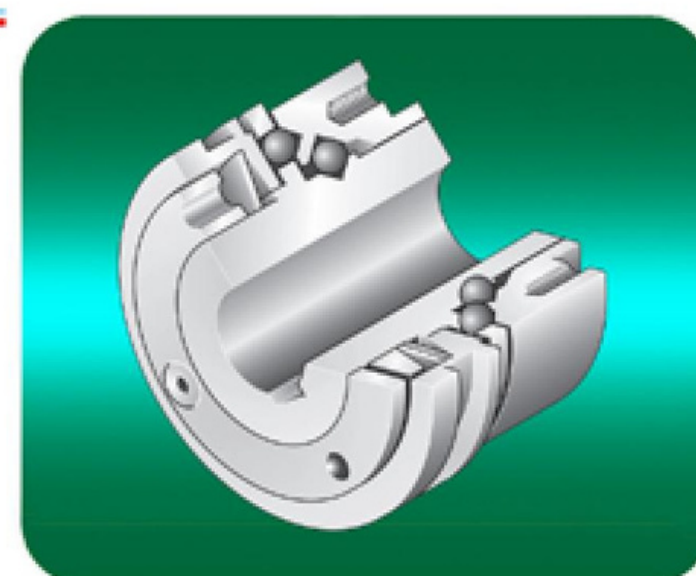


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Limitatori di coppia “senza gioco” con antiritorno per movimenti verticali

“Backlash-free” torque limiters with no-return system for vertical movements



X - X1 - VALORI A NORME TAB. UNI 95
VALUES ACCORDING TO TAB. UNI 95 STANDARDS.

		A	B ^{H7}	C	D	E	G	H	I ^{H7}	L	M	N	O	P	Q	R	S 6x60°	T	V	kg
18	A	60	18 - 19 - 20	65	59	70	16	1,4	40	40	8	4,5	18	53	7,5	4	M5	6	67	-
	B																			
24	A	85	25 - 28 - 30	85	75	90	26,5	1,8	55	55	10	6	19,5	69	7,5	6	M6	6	92	-
	B																			
35	A	108	38 - 40 - 42 - 45	110	104	115	30	2,3	72	65	10	8	23	90	9	8	M6	6	116	-
	B																			
40	A	135	45 - 48 - 50 - 55	135	129	140	37,5	3	92	80	14	10	27	112	9	10	M8	8	144	-
	B																			



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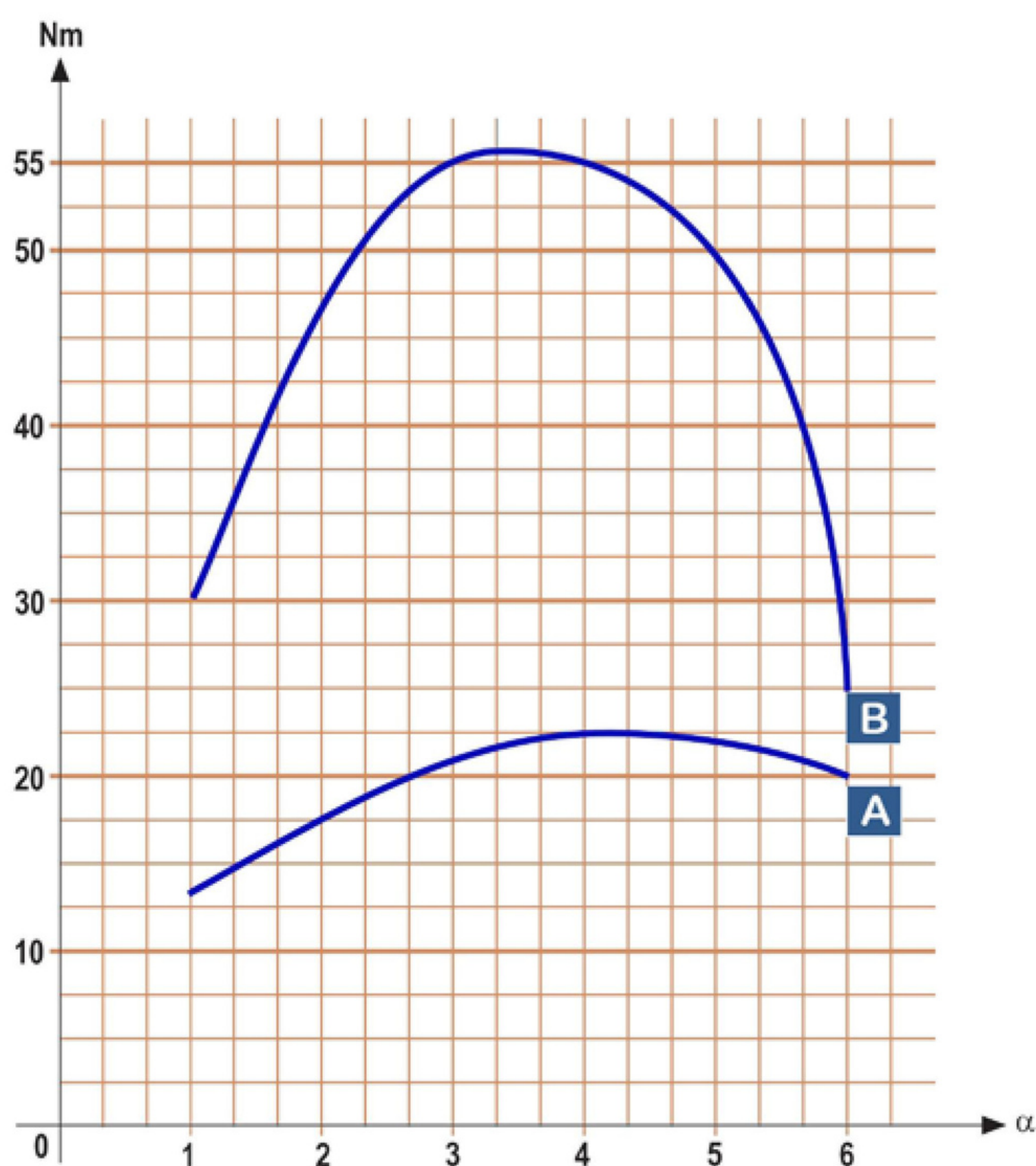
ATR/18

e derivate / and spin-off

Diagramma coppie

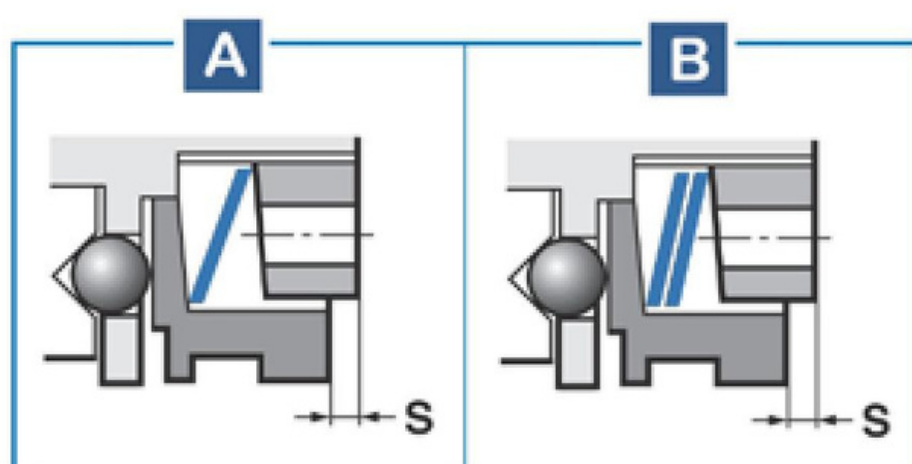
Torques diagrams

Valori di carico variabili secondo Norme:
Varying load readings in accordance with Regulations: **UNI 8736-7, DIN 2093**



una divisione = **60°**
corrispondente a n° 2
tacche, sul dispositivo.

one division = **60°**
corresponding to no. 2
marks, on the device.



N	α°	S (mm)	
		A	B
1	60	-1,5	-2
2	120	-1,2	-1,8
3	180	-1	-1,6
4	240	-0,8	-1,4
5	300	-0,6	-1,2
6	360	-0,4	-1



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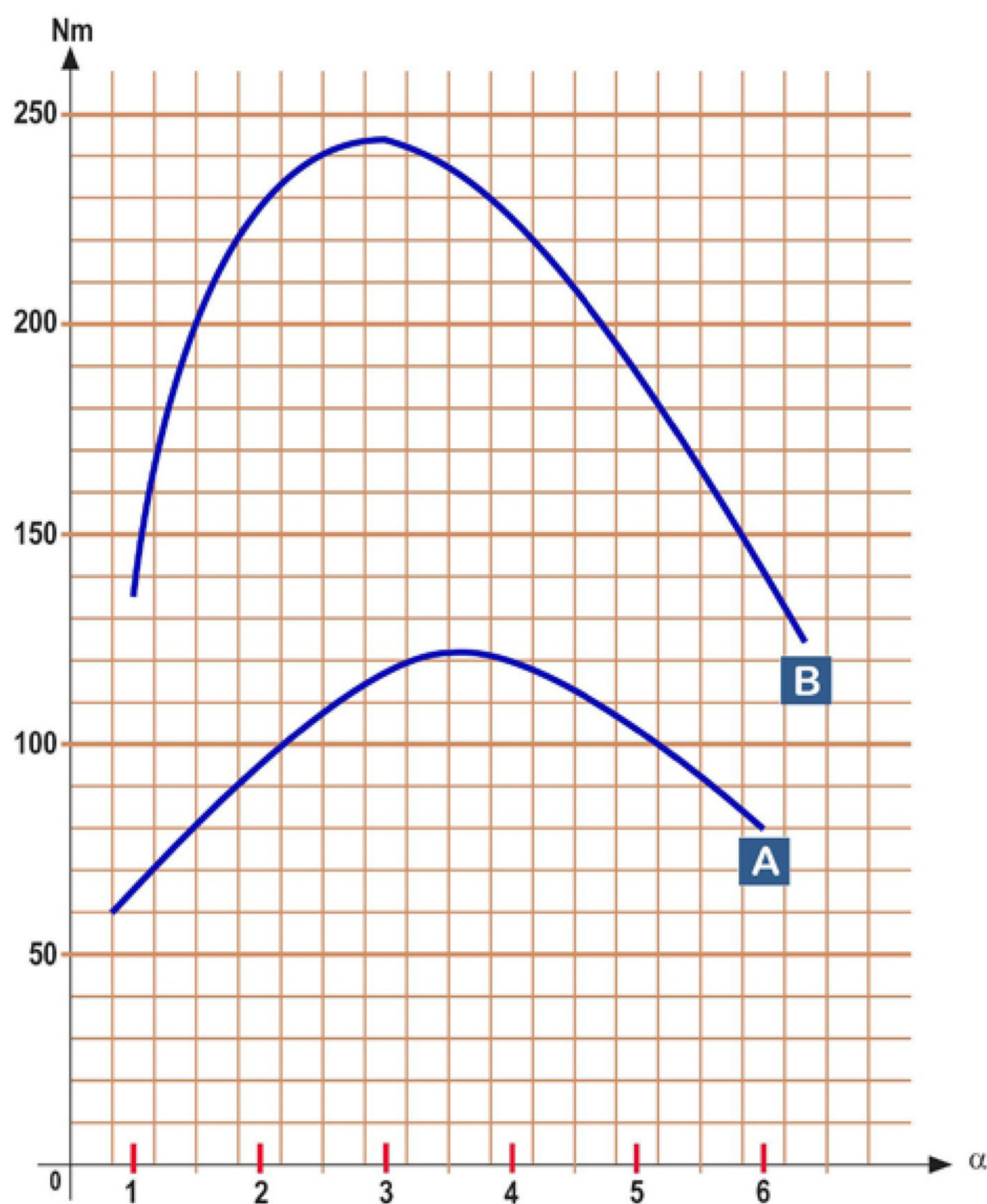
ATR/24

e derivate / and spin-off

Diagramma coppie

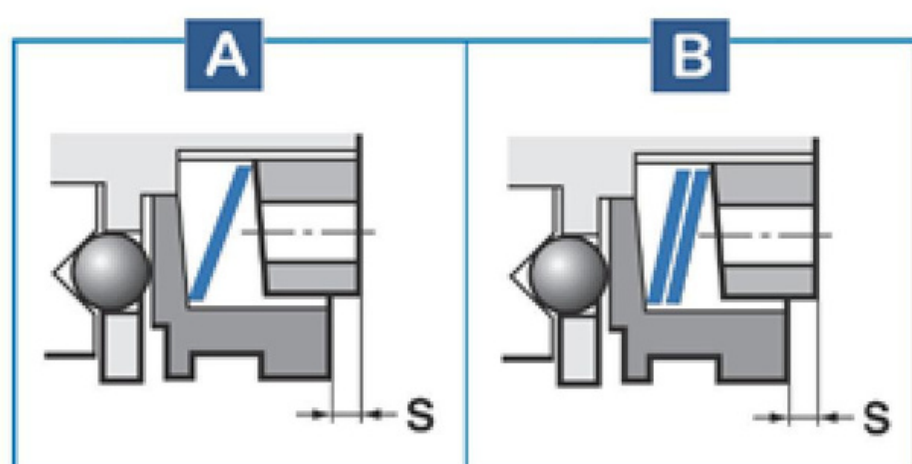
Torques diagrams

Valori di carico variabili secondo Norme:
Varying load readings in accordance with Regulations: **UNI 8736-7, DIN 2093**



una divisione = 60°
corrispondente a n° 2
tacche, sul dispositivo.

one division = 60°
corresponding to no. 2
marks, on the device.



		S (mm)	
N	α°	A	B
1	60	0,5	0,4
2	120	0,8	0,1
3	180	1,10	0
4	240	1,40	0,4
5	300	1,60	0,7
6	360	2	0,9
7	420	2,2	1,2
8	480	2,4	1,4
9	540	2,7	1,7
10	600	3	2,0
11	660	3,2	2,2
12	720		2,5



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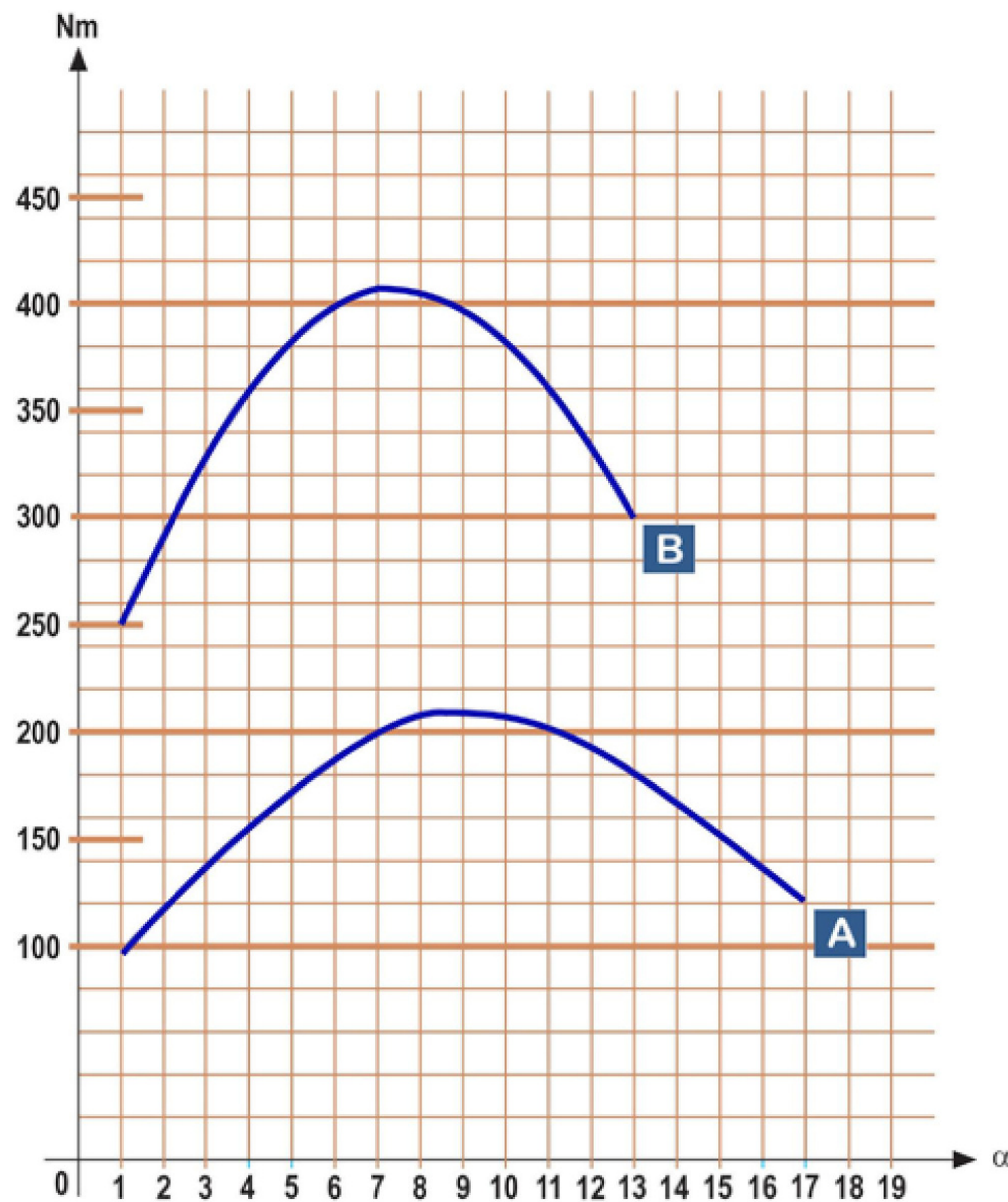
ATR/35

e derivate / and spin-off

Diagramma coppie

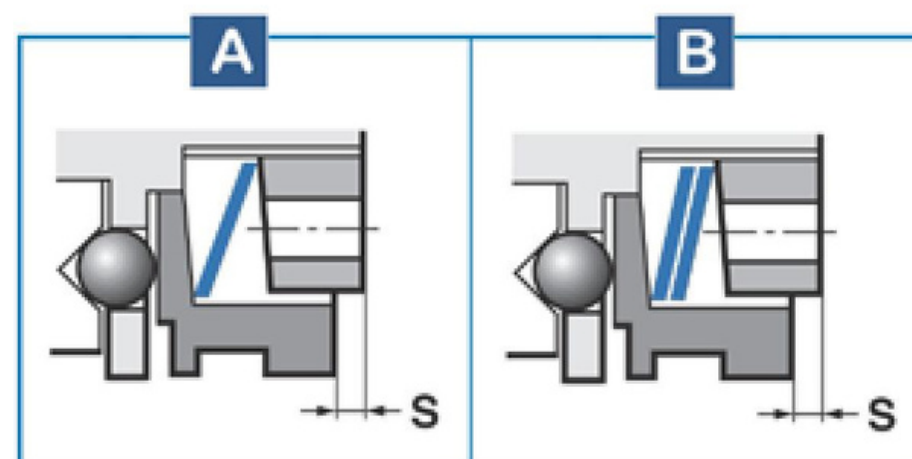
Torques diagrams

Valori di carico variabili secondo Norme: **UNI 8736-7, DIN 2093**
Varying load readings in accordance with Regulations:



una divisione = 60°
corrispondente a n° 2
tacche, sul dispositivo.

one division = 60°
corresponding to no. 2
marks, on the device.



		S (mm)	
N	α°	A	B
1	60	-1	-2,4
2	120	-0,9	-2,2
3	180	-0,6	-1,9
4	240	-0,4	-1,7
5	300	-0,2	-1,4
6	360	0	-1,1
7	420	0,3	-0,9
8	480	0,6	-0,7
9	540	0,9	-0,4
10	600	1,2	-0,2
11	660	1,4	0
12	720	1,6	0,3
13	780	1,9	0,6
14	840	2,2	
15	900	2,4	
16	960	2,6	
17	1020	2,9	



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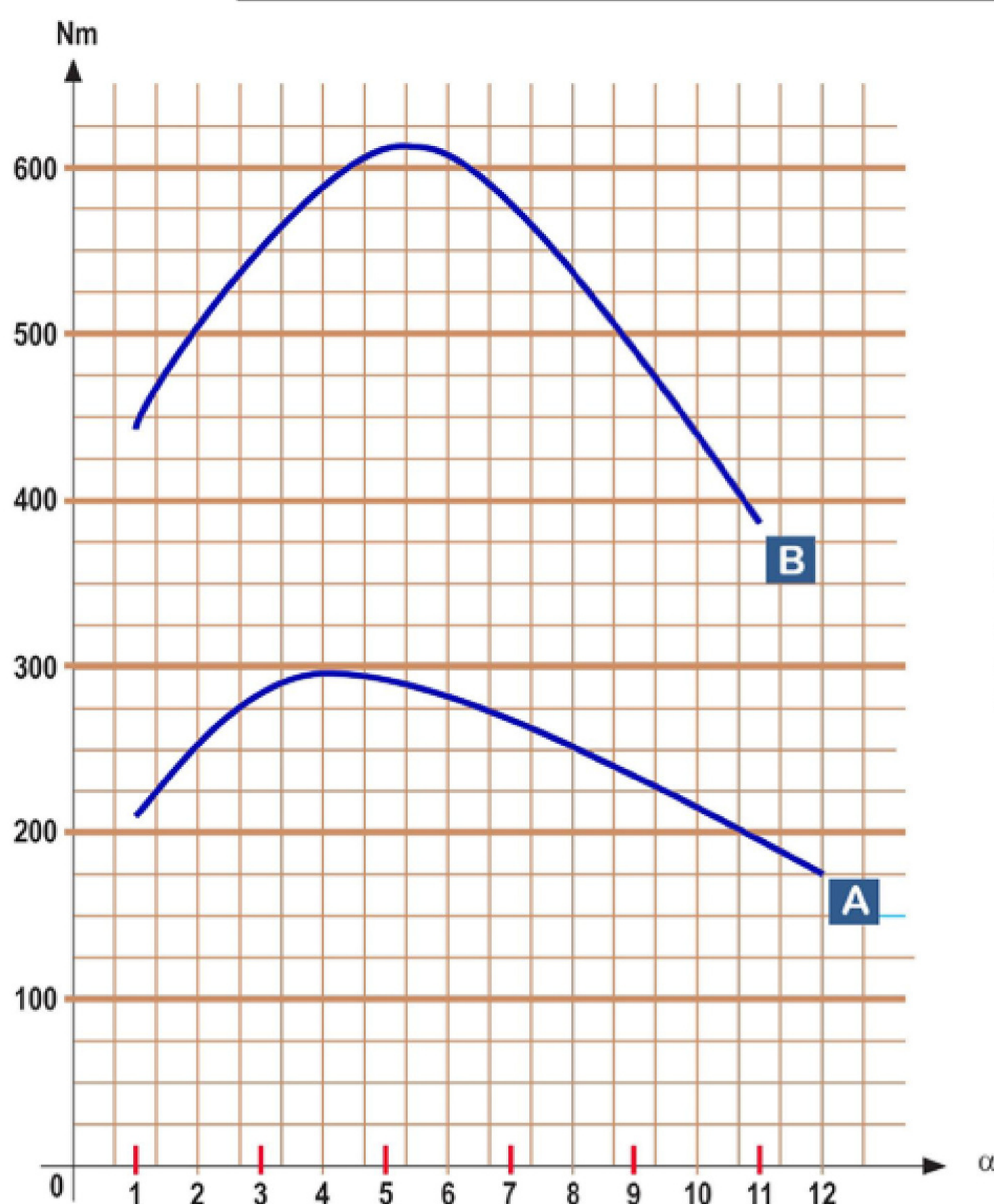
ATR/40

e derivate / and spin-off

Diagramma coppie

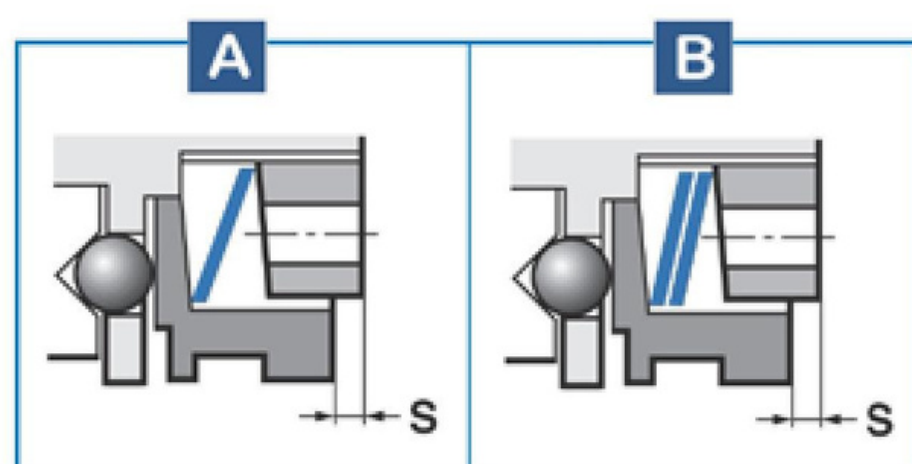
Torques diagrams

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Varying load readings in accordance with Regulations: **UNI 8736-7, DIN 2093**



una divisione = 60°
corrispondente a n° 2
tacche, sul dispositivo.

one division = 60°
corresponding to no. 2
marks, on the device.



		S (mm)	
N	α°	A	B
1	60	2,7	1
2	120	3	1,3
3	180	3,3	1,6
4	240	3,6	1,9
5	300	3,9	2,2
6	360	4,3	2,6
7	420	4,6	2,9
8	480	4,9	3,2
9	540	5,2	3,6
10	600	5,6	3,9
11	660	5,9	4,3
12	720	6,3	