

Catálogo Técnico

Guia Linear para Atuadores ISO

Série G



Vantagens

- Orientação de alta precisão da haste do cilindro no manuseio de peças e outros
- Protege o Atuador ISO contra torção quando sujeitos à alto toque de carga
- Disponível com Buchas de latão ou rolamentos de esfera

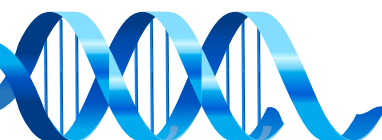


Características Técnicas

Cursos	10 a 500mm
Opções	Com buchas de latão ou rolamentos de esferas
Material do corpo	Alumínio
Material da haste	SAE 1045 cromado ou aço inoxidável

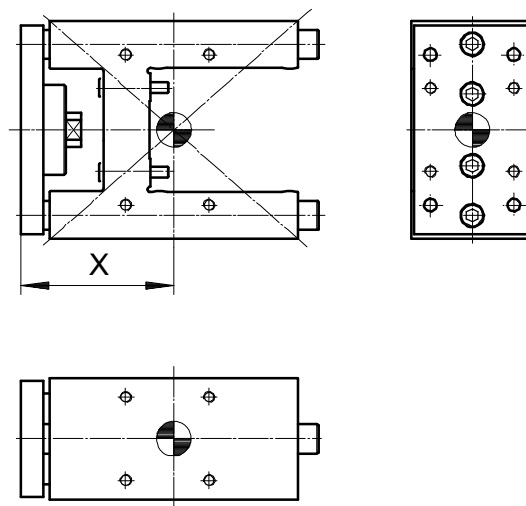
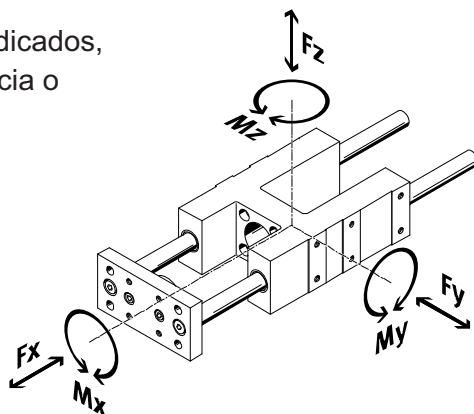
Codificação

G			-	
Modelo				
	Deslizante	Ø do Cilindro	Aplicável	Cursos (mm)
	B Bucha de latão	12	 Série CSM Cilindro Mini ISO 6432	10 à 500
	R Rolamentos de esfera	16		
		20		
		25		
Exemplo: GB32-100 GR80-220 GB16-50		32	 Série CTM, CP2M Cilindro ISO 6431 e 15552	
		40		
		50		
		63		
		80		
		100		



Força e Torque

Forças e torques indicados, tendo como referência o centro da guia.

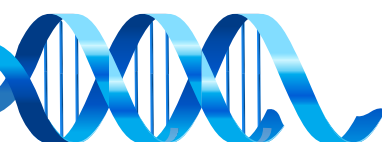


Se a guia estiver sujeita à duas ou mais forças indicadas na imagem acima simultaneamente, utilizar a seguinte equação para o cálculo do fator de comparação de carga:

$$f_v = \frac{|F_y|}{F_{y,max}} + \frac{|F_z|}{F_{z,max}} + \frac{|M_x|}{M_{x,max}} + \frac{|M_y|}{M_{y,max}} + \frac{|M_z|}{M_{z,max}} \leq 1$$

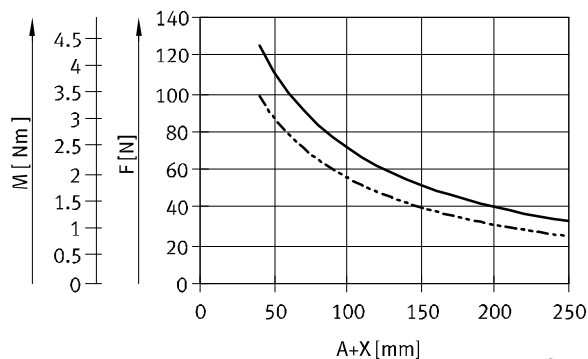
Distância "X"									
Série	GB								
Ø (mm)	8, 10	12, 16	20, 25	32	40	50	63	80	100
Dimensão - X	55	68	69	83	85	99	117	142	145

Força e torque máximo permitido									
Série	GB								
Ø (mm)	8, 10	12, 16	20, 25	32	40	50	63	80	100
Estática									
Fy max. /Fz max.	680	830	830	1020	1260	1600	1600	3120	3120
Mx max.	16	20	24	38	55	83	95	231	268
My max. /Mz max.	7	12	31	46	65	89	115	259	267
Dinâmica (para uma vida útil de 5000km)									
Fy max. /Fz max.	450	520	520	750	1000	1260	1260	2300	2300
Mx max.	11	12	15	28	44	65	75	170	198
My max. /Mz max.	5	7	20	34	52	70	90	191	197



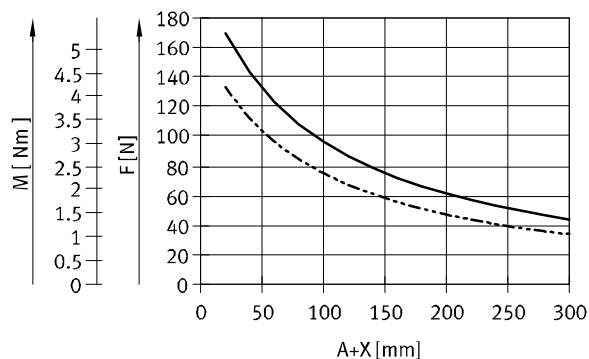
Guia Linear para Atuadores ISO - Série G

Piston diameter 12/16



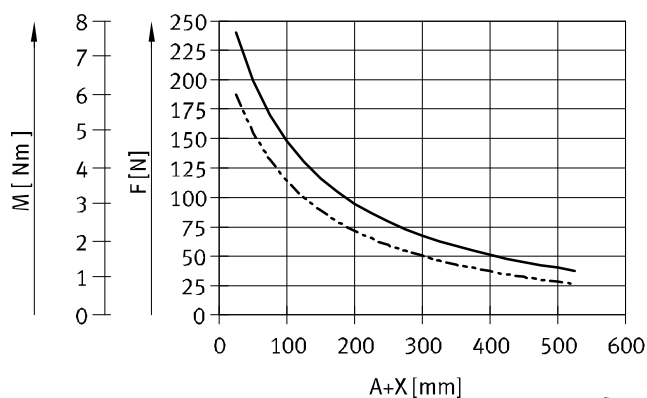
— Running performance of 1500 km
- - - Running performance of 3000 km

Piston diameter 20/25

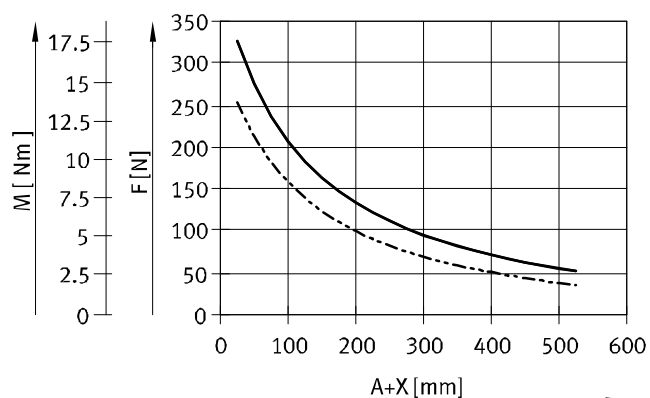


— Running performance of 5000 km
- - - Running performance of 10000 km

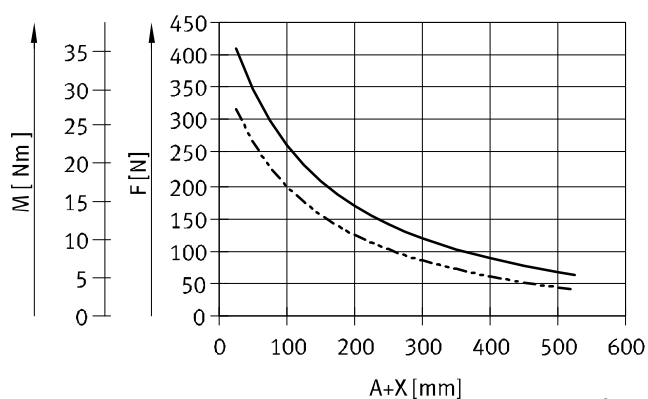
Piston diameter 32



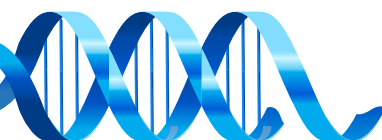
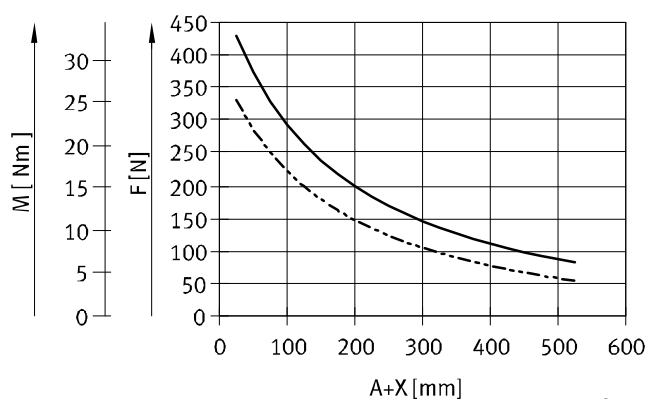
Piston diameter 40



Piston diameter 50

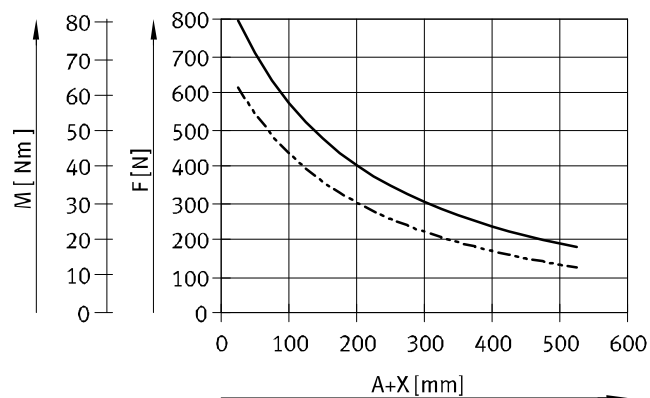


Piston diameter 63



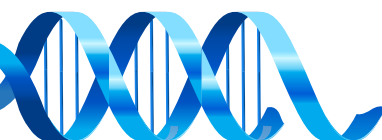
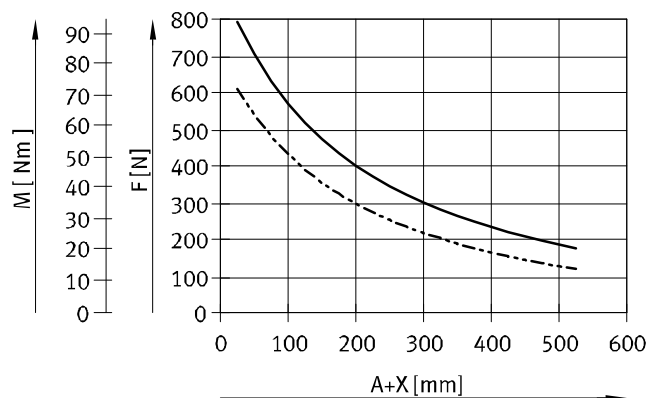
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Piston diameter 80



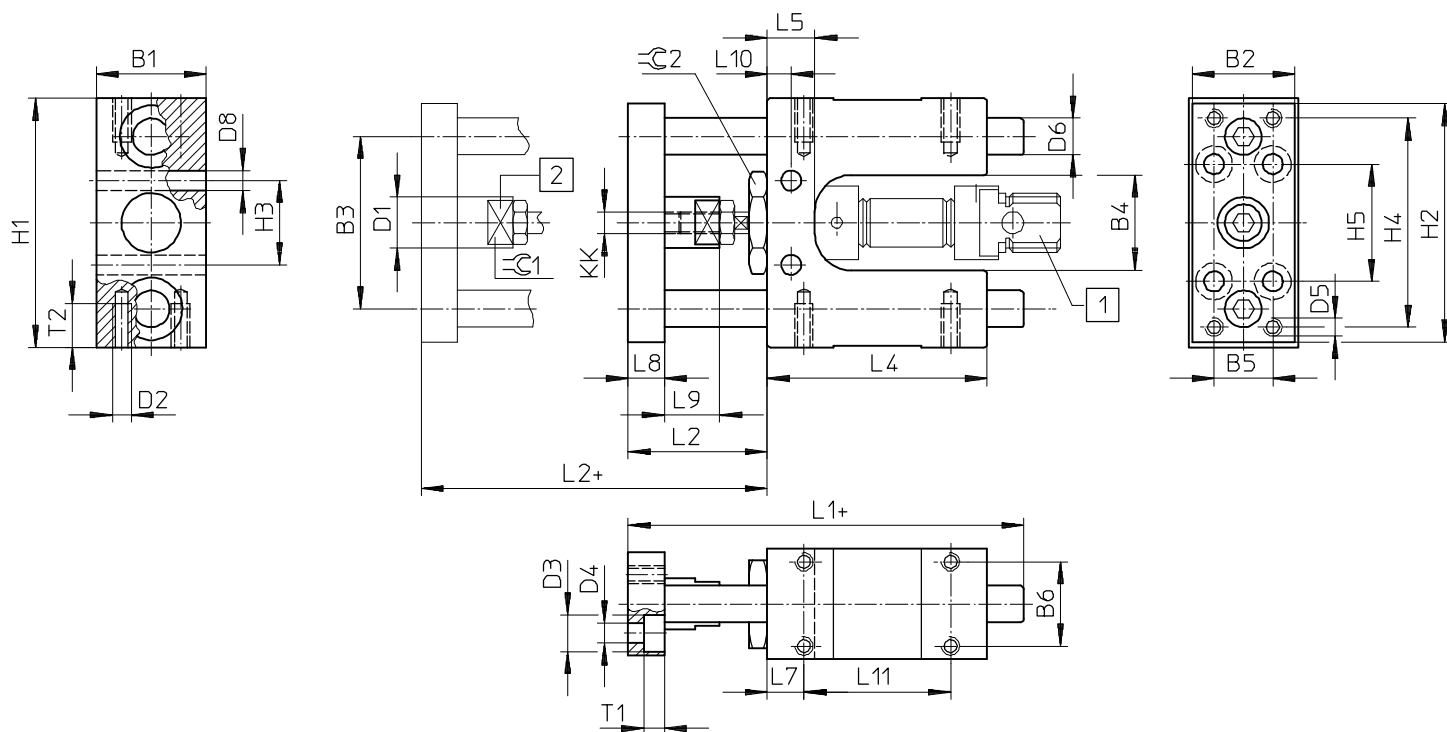
— Running performance of 5000 km
- - - Running performance of 10000 km

Piston diameter 100



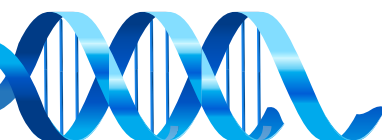
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Dimensional - Ø12, 16mm



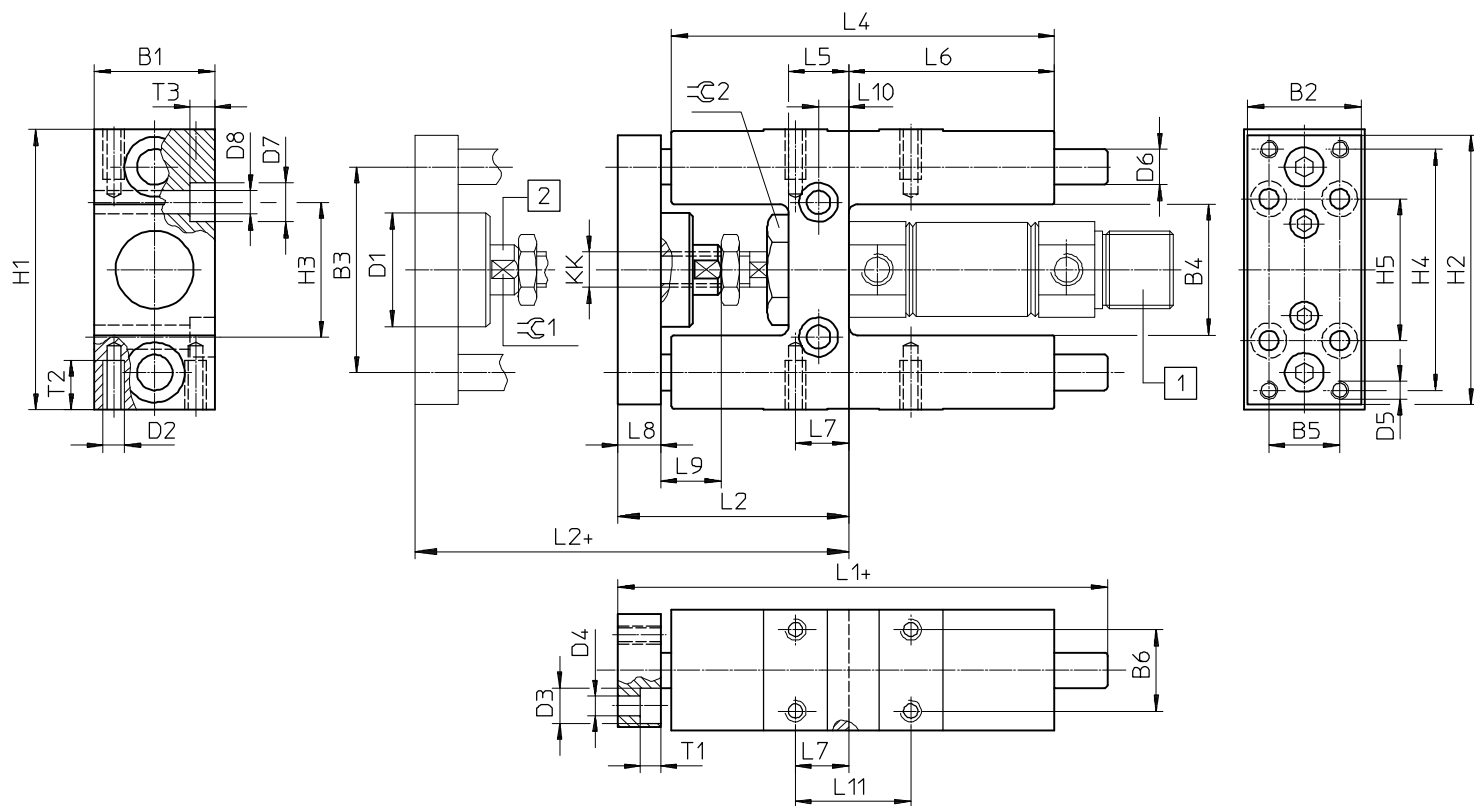
Ø (mm)	B1 -0.3	B2	B3 ±0.15	B4	B5	B6 ±0.15	D1	D2	D3	D4	D5	D6 ¹⁾	D8	H1 -0.4	H2	H3 ±0.15
12, 16	30	28	47	26	16	23	14	M5	10	5.5	M5	10	5.5	68	65	23

Ø (mm)	H4	H5	KK	L1	L2 +5	L4	L5	L7	L8	L9	L10	L11 ±0.15	T1	T2	β1	β2
12, 16	57	32	M6	108	38	60	13	10	10	15	6.5	40	5.7	12	12	24



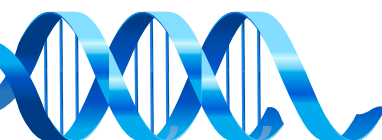
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Dimensional - Ø20, 25mm



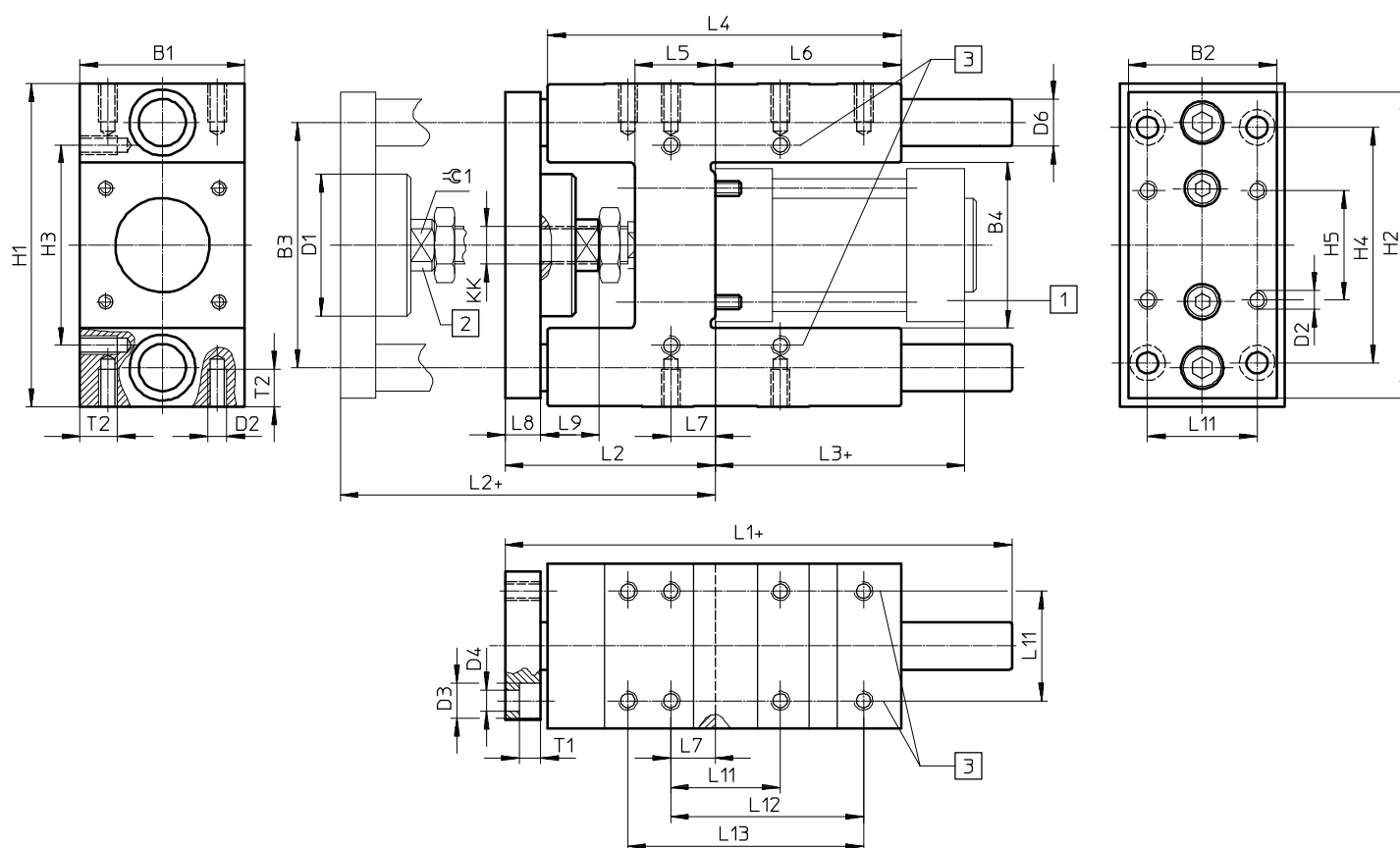
Ø (mm)	B1 -0.3	B2	B3 ±0.2	B4	B5	B6	D1	D2	D3	D4	D5	D6	D7	D8	H1 -0.4	H2	H3 ±0.2	H4
20, 25	34	32	58	37	20	23	32	M6	10	5.5	M5	10	11	6.6	79	76	38	68

Ø (mm)	H5	KK	L1	L2	L4	L5	L6	L7	L8	L9	L10	L11 ±0.2	T1	T2	T3	β 1	β 2
20	40	M8	138	65	108	17	58	15	12	22 17	8.5	32.5	5.7	14	6.8	13	27
25		M10x1.25															



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Dimensional - Ø32, 40, 50, 63, 80 e 100mm



Ø [mm]	B1 -0.3	B2	B3 ±0.2	B4	D1 Ø	D2	D3 Ø	D4 Ø	D6 ¹⁾ Ø	H1	H2	H3 ±0.2	H4 ±0.2	H5 ±0.2	KK
32	50	45	74	50.5±0.3	45	M6	11	6.6	12	97-0.4	90	61	78	32.5	M10x1.25
40	58	54	87	58.5±0.3	45	M6	11	6.6	16	115-0.4	110	69	84	38	M12x1.25
50	70	63	104	70.5±0.3	60	M8	15	9	20	137-0.5	130	85	100	46.5	M16x1.5
63	85	80	119	85.5±0.3	60	M8	15	9	20	152-0.5	145	100	105	56.5	M16x1.5
80	105	100	148	106±0.6	78	M10	18	11	25	189-0.5	180	130	130	72	M20x1.5
100	130	120	172	131±0.6	78	M10	18	11	25	213-0.5	200	150	150	89	M20x1.5

Ø [mm]	L1	L2	L3	L4	L5	L6	L7	L8	L9	L11 ±0.2	L12 ±0.2	L13 ±0.2	T1	T2 Max.	β 1
32	155	67+5	94	125	24	76	4.3	12	20	32.5	70.3	78	6.5	14	15
40	170	75+5	105	140	28	81	11	12	22	38	84	-	6.5	14	15
50	188	89+10	106	150	34	79	18.8	15	25	46.5	81.8	100	9	16	19
63	220	89+10	121	182	34	111	15.3	15	25	56.5	105	-	9	16	19
80	258	111+10	128	215	40	128	21	20	32	72	-	-	11	20	27
100	263	116+10	138	220	40	128	24.5	20	32	89	-	-	11	20	27

