

Guides Series 45

1

For cylinders DIN/ISO 6432 $\varnothing 12 - 16 - 20 - 25$

For cylinders DIN/ISO 6431 $\varnothing 32 - 40 - 50 - 63 - 80 - 100$



» To be used with VDMA/ISO cylinders

» Available as ball bearing guide and self lubricating guide

The Series 45 Guides have been developed in order to prevent piston rod rotation and can support possible radial loads.

Series 45 Guides are available in three different models depending on the applicable loads. The UT and HT guides with crawling supports are self lubricating, while HB guides have a ball bush. Series 45 guides can be used with all cylinders DIN/ISO 6432 of $\varnothing 20$ and $\varnothing 25$ and DIN/ISO 6431 of $\varnothing 32 - 100$. Refer to the graphs to ensure the right choice of the loads in relation to the stroke. The shorter the stroke the higher will be the applicable loads.

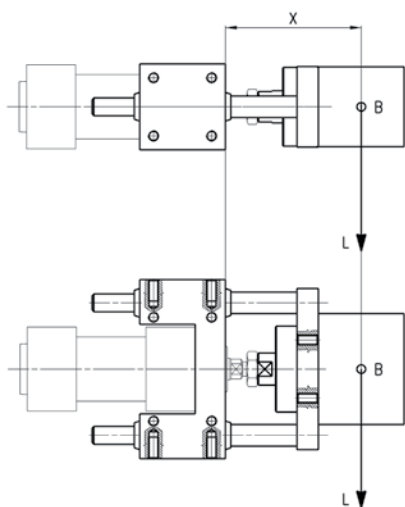
GENERAL DATA

Type of construction	U and H
Operation	45NUT and 45NHT without lubrication, 45NHB requires lubrication
Material	anodized aluminium body rolled stainless steel AISI 420B columns for 45UT and 45HT hardened steel C50 columns for 45HB stainless steel flexible coupling AISI 303 anodized aluminium plate
Assembly	by means of threaded holes
Installation	in any position

CODING EXAMPLE

45	N	UT	050	A	0100
45	SERIES				
N	VERSION N = standard				
UT	OPERATION UT = "U" self lubricating guide HT = "H" self lubricating guide HB = "H" ball guide				
050	BORE 20 mm 25 mm 32 mm 40 mm 50 mm 63 mm 80 mm 100 mm				
A	MATERIALS A = anodized aluminium body stainless steel columns AISI 420B for 45UT and 45HT hardened steel columns C50 for 45HB				
0100	STROKE in mm				

APPLICABLE LOADS ON 45 NUT GUIDES



B = centre of gravity for applied load
 L = load
 X = fixed projection + stroke
 fixed projection = distance to the centre of gravity

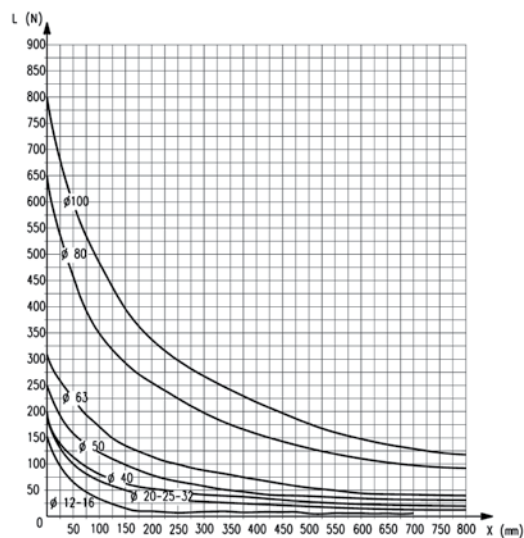
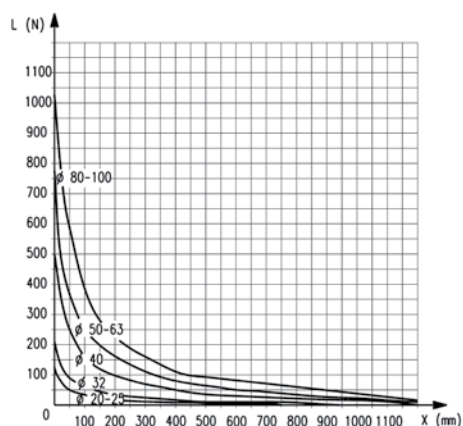
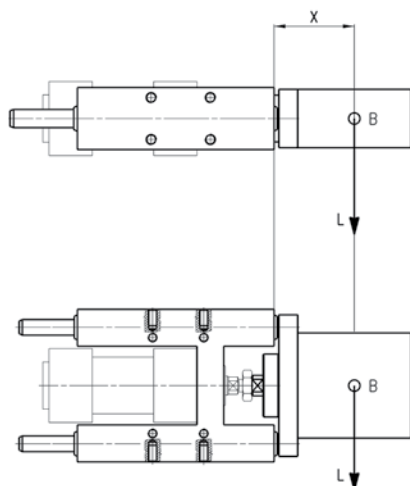


Diagram N.1 - "U" Guide moving on bush (NUT)

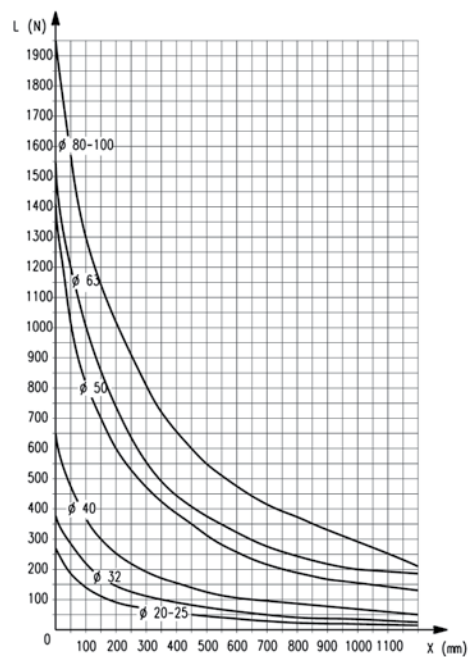
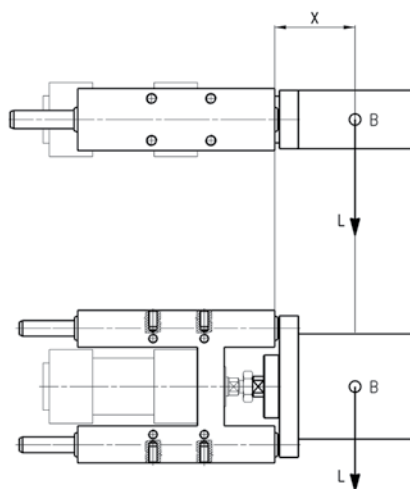
APPLICABLE LOADS ON 45 NUT GUIDES DEPENDING ON PROJECTION



B = centre of gravity for applied load
 L = load
 X = fixed projection + stroke
 fixed projection = distance to the centre of gravity

Diagram N.2 - "HB" guide with linear ball bearing (45 NHB)

APPLICABLE LOADS ON 45 NUT GUIDES DEPENDING ON PROJECTION



B = centre of gravity for applied load
 L = load
 X = fixed projection + stroke
 fixed projection = distance to the centre of gravity

"HT" Guide moving on bush (45 NHT)

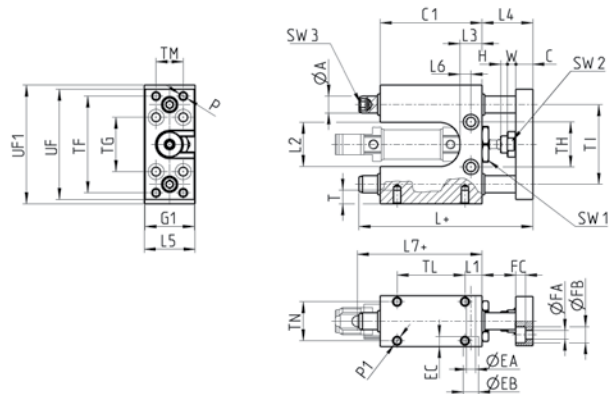
Guides Mod. 45 NUT

Guides suitable for cylinders Series 16 and 24 DIN/ISO 6432 $\varnothing$ 12, 16.
For applicable loads, see graph N.1 These guides do not need lubrication.

Supplied with:
1x fixing nut



+ = add the stroke



DIMENSIONS

Ø	TF	TG	TH	TI	TM	TL	TN	UF1	UF	G1	A	C1	H	W	C	L	L1	L2	L3	L4	L5	L6	L7	P	P1	T	EA	EB	EC	FA	FB	FC	SW1	SW2	SW3
12	57	32	26,5	47	16	40	23	70	65	29	10	60	4	5	10	102,5	10	26	13	30	30	6,5	66,5	M5	M5	8	5,5	9	5,7	5,5	9,5	5,7	21	13	6
16	57	32	26,5	47	16	40	23	70	65	29	10	60	4	5	10	102,5	10	26	13	30	30	6,5	73,5	M5	M5	8	5,5	9	5,7	5,5	9,5	5,7	21	13	6

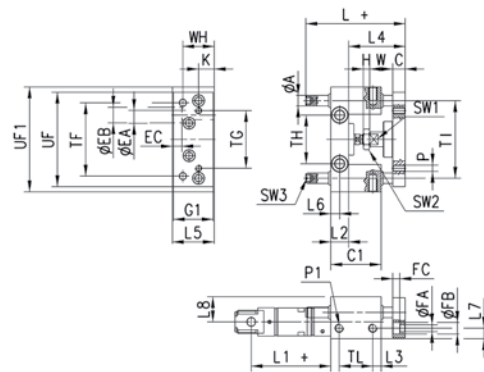
Guides Mod. 45NUT

Guides suitable for cylinders Series 24 and 25 DIN/ISO 6432 $\varnothing$ 20, 25.
For applicable loads, see graph N.1
These guides do not need lubrication.

Supplied with:
1x fixing nut



+ = add the stroke



DIMENSIONS

Ø	TF	TG	TH	TI	TL	UF1	UF	G1	A	WH	C1	H	W	C	K	L	L1	L2	L3	L4	L5	L6	L7	L8	P	P1	EA	EB	EC	FA	FB	FC	SW1	SW2
20	70	55	46,5	74	32	100	90	38	10	30	48	4	22	12	15	77	71	17	8	48+2	40	8,5	10	24	M6	M8	9	15	9	6,5	11	6,8	13	13
25	70	55	46,5	74	32	100	90	38	10	30	48	6	22	12	15	77	76	17	8	48+2	40	8,5	10	24	M6	M8	9	15	9	6,5	11	6,8	13	17

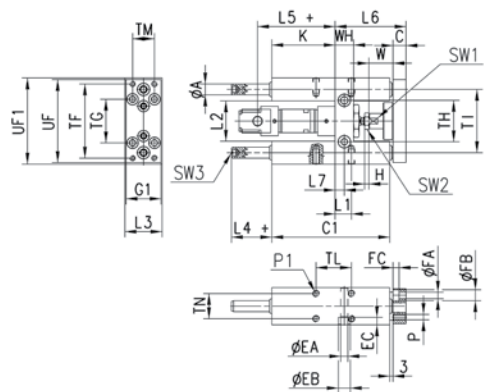
Guides Mod. 45NHT

Guides suitable for cylinders Series 24 and 25 DIN/ISO 6432 $\varnothing$ 20, 25.
For applicable loads, see graph N.1
These guides do not need lubrication.

Supplied with:
1x fixing nut



+ = add the stroke



DIMENSIONS

Ø	TF	TG	TH	TI	TL	TM	TN	UF	G1	UF1	A	WH	C1	H	W	C	K	L	L1	L2	L3	L4	L5	L6	L7	P	P1	T	EA	EB	EC	FA	FB	FC	SW1	SW2	SW3
20	68	40	38	58	32,5	20	23	76	32	79	10	17	108	4	22	12	58	160	15	37	34	37	71	65	8,5	M5	M6	14	6,5	11	6,8	5,5	10	5,7	13	13	6
25	68	40	38	58	32,5	20	23	76	32	79	10	17	108	6	17	12	58	160	15	37	34	37	76	65	8,5	M5	M6	14	6,5	11	6,8	5,5	10	5,7	13	17	6

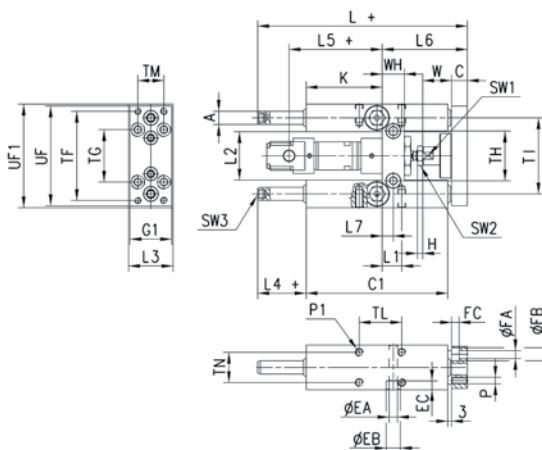
Guides Mod. 45NHB

Guide suitable for cylinders Series 24 and 25 DIN/ISO 6432, $\varnothing$ 20 and 25. For applicable loads, see graph No. 2. To lubricate these guides, use the special lubricator.



Supplied with:
1x fixing nut

+ = add the stroke



DIMENSIONS

$\varnothing$	TF	TG	TH	T1	TL	TM	TN	UF	G1	UF1	A	WH	C1	H	W	C	K	L	L1	L2	L3	L4	L5	L6	L7	P	P1	T	EA	EB	EC	FA	FB	FC	SW1	SW2	SW3
20	68	40	38	58	32,5	20	23	76	32	79	10	17	108	4	22	12	58	160	15	37	34	37	71	65	8,5	M5	M6	14	6,5	11	6,8	5,5	10	5,7	13	13	6
25	68	40	38	58	32,5	20	23	76	32	79	10	17	108	6	17	12	58	160	15	37	34	37	76	65	8,5	M5	M6	14	6,5	11	6,8	5,5	10	5,7	13	17	6

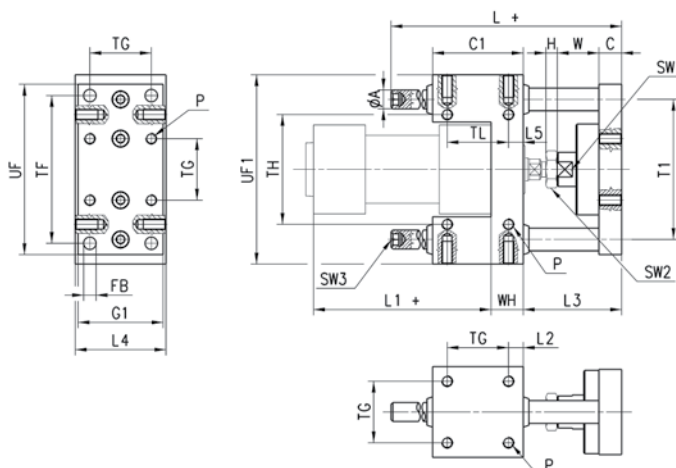
Guides Mod. 45NUT

Guide suitable for cylinders Series 60 and 61 DIN/ISO 6431, $\varnothing$ 32, 40, 50, 63, 80 and 100. For applicable loads, see graph No. 1. These guides do not need lubrication.



Supplied with:
4x fixing screws

+ = add the stroke



DIMENSIONS

$\varnothing$	TF	TG	TH	A	T1	P	FB	UF	G1	UF1	L	C1	H	W	C	L1	WH	L2	L3	L4	L5	TL	SW1	SW2	SW3
32	78	32,5	58	12	74	M6	6,6	90	45	100	106	48	6	22	12	94	17	7,8	52	48	7,8	32,5	15	17	3
40	84	38	64	12	80	M6	6,6	100	50	106	117	58	7	22	12	105	21	10	53	56	10	38	15	19	6
50	100	46,5	80	16	96	M8	9	120	60	125	129	59	8	26	15	106	25	6,2	64	66	6,3	46,5	22	24	6
63	105	56,5	95	16	104	M8	9	125	70	132	146	76	8	26	15	121	25	9,8	64	76	9,8	56,5	22	24	6
80	130	72	130	20	130	M10	11	155	90	165	170	90	9	32	16	128	34	9	72	98	20	50	27	30	6
100	150	89	150	20	150	M10	11	175	110	185	190	110	9	32	16	138	39	10,5	72	118	20	70	27	30	6

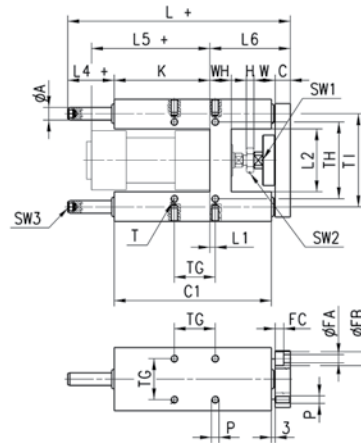
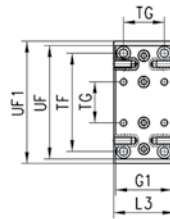
Guides Mod. 45NHT

Guide suitable for cylinders Series 60 and 61DIN/ISO 6431, $\varnothing$ 32, 40, 50, 63, 80 and 100.
For applicable loads, see graph No. 3. These guides do not need lubrication.



Supplied with:
4x fixing screws

+ = add the stroke



DIMENSIONS

$\varnothing$	TF	TG	TH	TI	UF	G1	UF1	A	WH	C1	H	W	C	K	L	L1	L2	L3	L4	L5	L6	P	T	FA	FB	FC	SW1	SW2	SW3
32	78	32,5	61	74	90	45	97	12	17	125	6	17	12	76	177	4,3	50,2	50	37	94	64	M6	14	6,5	11	6,8	13	17	6
40	84	38	69	87	110	54	115	16	21	140	7	22	12	81	192	11	58,2	58	37	105	74	M6	14	6,5	11	6,8	15	19	6
50	100	46,5	85	104	130	63	137	20	26	149	8	26	15	78,5	205	19,8	70,2	70	37,5	106	89	M8	16	9	15	9	22	24	6
63	105	56,5	100	119	145	80	152	20	26	182	8	26	15	111	237	15,3	85,2	85	37	121	89	M8	16	9	15	9	22	24	6
80	130	72	130	148	180	100	189	25	32	215	9	32	20	128	280	21	105,4	105	42	128	110	M10	20	11	18	11	27	30	6
100	150	89	150	172	200	120	213	25	32	220	9	32	20	128	280	24,5	130,4	130	37	138	115	M10	20	11	18	11	27	30	6

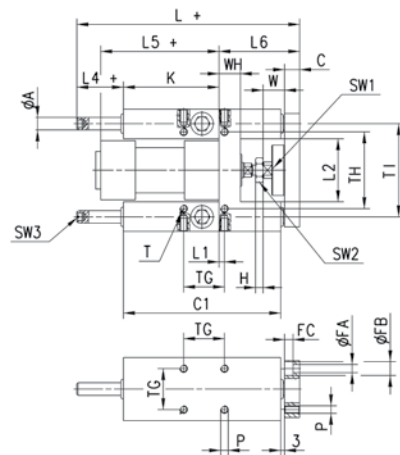
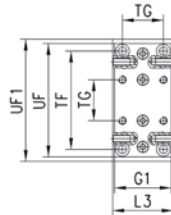
Guides Mod. 45NHB

Guide suitable for cylinders Series 60 and 61DIN/ISO 6431, $\varnothing$ 32, 40, 50, 63, 80 and 100.
For applicable loads, see graph No. 2. To lubricate these guides, use the special lubricator.



Supplied with:
4x fixing screws

+ = add the stroke



DIMENSIONS

$\varnothing$	TF	TG	TH	TI	UF	G1	UF1	A	WH	C1	H	W	C	K	L	L1	L2	L3	L4	L5	L6	P	T	FA	FB	FC	SW1	SW2	SW3
32	78	32,5	61	74	90	45	97	12	17	125	6	17	12	76	177	4,3	50,2	50	37	94	64	M6	14	6,5	11	6,8	13	17	6
40	84	38	69	87	110	54	115	16	21	140	7	22	12	81	192	11	58,2	58	37	105	74	M6	14	6,5	11	6,8	15	19	6
50	100	46,5	85	104	130	63	137	20	26	149	8	26	15	78,5	237	19,8	70,2	70	69,5	106	89	M8	16	9	15	9	22	24	6
63	105	56,5	100	119	145	80	152	20	26	182	8	26	15	111	237	15,3	85,2	85	37	121	89	M8	16	9	15	9	22	24	6
80	130	72	130	148	180	100	189	25	34	215	9	32	20	128	280	21	105,4	105	42	128	110	M10	20	11	18	11	27	30	6
100	150	89	150	172	200	120	213	25	39	220	9	32	20	128	280	24,5	130,4	130	37	138	115	M10	20	11	18	11	27	30	6