

Series 16, 23, 24 and 25 mini-cylinders

למידע נוסף באתר 'אוטומציה ירוחם' לחצו כאן

Series 16: Ø 8, 10, 12 mm - non-magnetic
Series 23: Ø 16, 20, 25 mm - magnetic, auto-cushioned
Series 24: Ø 16, 20, 25, 32 mm - magnetic
Series 25: Ø 16, 20, 25, 32 mm - magnetic, cushioned



- » Single and double-acting » In compliance with ISO 6432 »
- Stainless steel rod and barrel »
- Anodized aluminium end-blocks »
- » Cushioning types: mechanical with bumper, pneumatic auto-cushioning, adjustable pneumatic cushioning

Series 16, 23, 24 and 25 mini-cylinders are designed according to ISO 6432. It is possible to choose from three different types of cushioning: mechanical (standard bumper on Series 16 and 24), adjustable pneumatic cushioning (Series 25) and pneumatic auto-cushioning (Series 23). This last version, thanks to a patented system, automatically adjusts the cushioning in order to provide optimal deceleration during the entire cushioning phase. The cylinder enjoys smooth, jolt-free movement, reducing vibrations and noise, while also

guaranteeing high reliability and constant performance over time. The adopted technical solutions and the choice of materials have provided the basis for a complete range of versatile and very reliable mini-cylinders. They are suitable to be used in a multitude of industrial applications, especially where operating conditions undergo changes over time like for example wear of machine components. Various mounting accessories are available to fix the cylinders in different ways.

GENERAL DATA

Type of construction	crimped
Operation	single-acting and double-acting
Design	ISO 6432 (Ø8, 10, 12, 16, 20, 25)
Materials	anodized aluminium end-caps - stainless steel barrel and rod, aluminium piston - NBR/PU seals, other parts: see the coding example
Brackets	rod end - flange - feet - trunnion
Stroke min - max	Ø8, 10 : 10 - 250 mm; Ø12 : 10 - 300 mm; Ø16 : 10 - 600 mm; Ø20, 25, 32 : 10 - 1000 mm
Bores	Series 16: Ø 8, 10, 12 - Series 23: Ø16, 20 and 25 - Series 24, 25: Ø16, 20, 25 and 32
Operating temperature	0°C ÷ 80°C (with dry air -20°C)
Operating pressure	1 ÷ 10 bar (double-acting); 2 ÷ 10 bar (single-acting)
Fluid	filtered air in class 7.8.4 according to ISO 8573-1. If lubricated air is used, it is recommended to use oil ISO VG32. Once applied the lubrication should never be interrupted.
Speed	10 ÷ 1000 mm/sec (without load)

SERIES 16, 23, 24 AND 25 MINI-

STANDARD STROKES FOR MINICYLINDERS

■ = Double-acting
x = Single-acting

STANDARD STROKES															
Series	Ø	10	25	40	50	80	100	125	160	200	250	300	320	400	500
16	8	■ x	■ x	■ x	■ x	■	■	■	■	■	■				
16	10	■ x	■ x	■ x	■ x	■	■	■	■	■	■				
16	12	■ x	■ x	■ x	■ x	■	■	■	■	■	■	■			
24	16	■ x	■ x	■ x	■ x	■	■	■	■	■	■	■	■	■	■
24	20	■ x	■ x	■ x	■ x	■	■	■	■	■	■	■	■	■	■
24	25	■ x	■ x	■ x	■ x	■	■	■	■	■	■	■	■	■	■
24	32	■ x	■ x	■ x	■ x	■	■	■	■	■	■	■	■	■	■
23/25	16	■	■	■	■	■	■	■	■	■	■	■	■	■	■
23/25	20	■	■	■	■	■	■	■	■	■	■	■	■	■	■
23/25	25	■	■	■	■	■	■	■	■	■	■	■	■	■	■
25	32	■	■	■	■	■	■	■	■	■	■	■	■	■	■

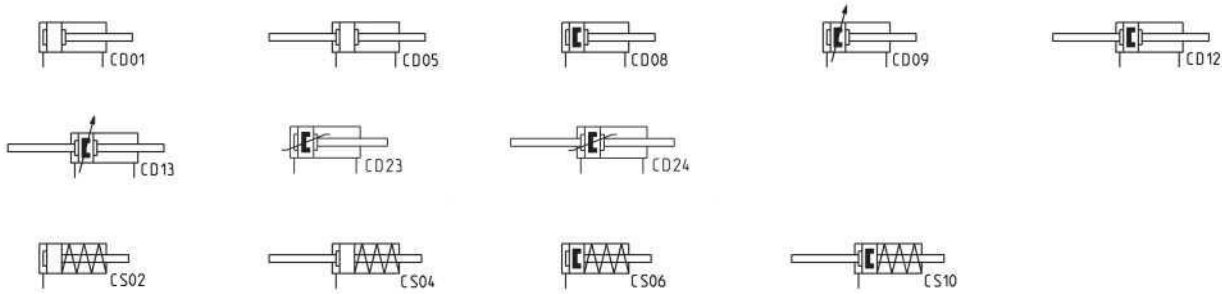
CODING EXAMPLE

24 16 100

24	SERIES 16 = non magnetic, with mechanical cushioning 23 = magnetic, auto-cushioning 24 = magnetic, with mechanical cushioning 25 = magnetic, adjustable cushioning
N	VERSION N = standard
2	OPERATION 1 = single-acting, front spring, no cushion (only for series 16, 24) 2 = double-acting 3 = double-acting, through-rod 7 = single-acting, through-rod (only for series 16, 24) PNEUMATIC SYMBOLS CS02 (s. 16) - CS06 (s. 24) CD01 (s. 16) - CD08 (s. 24) - CD23 (s.23) - CD09 (s. 25) CD05 (s. 16) - CD12 (s. 24) - CD24 (s.23) - CD13 (s. 25) CS04 (s. 16) - CS10 (s. 24)
A	MATERIALS A = rolled stainless steel AISI 303 rod (032 AISI 420B) - stainless steel AISI 304 tube - anodized AL end-blocks
16	BORE 08 = 8 mm (only for series 16) 10 = 10 mm (only for series 16) 12 = 12 mm (only for series 16) 16 = 16 mm (only for series 23, 24 e 25) 20 = 20 mm (only for series 23, 24 e 25) 25 = 25 mm (only for series 23, 24 e 25) 32 = 32mm (only for series 24 e 25)
A	CONSTRUCTION A = Nose nut Mod. V + Piston rod lock nut Mod. U RL = cylinder with rod lock (only for 020 - 025) STROKE (see graph)
100	 = standard V = rod seal in FKM W = all seals in FKM, +130°C (only for series 25: 016, 20, 25) () = extended rod mm

PNEUMATIC SYMBOLS

The pneumatic symbols which have been indicated in the CODING EXAMPLE are shown below.



ACCESSORIES FOR MINICYLINDERS SERIES 16 - 23 - 24 - 25



Rod fork end Mod. G



Swivel ball joint Mod. GA



Piston rod socket joint
Mod. GY



Self aligning rod
Mod. GK



Coupling piece
Mod. GKF



Piston rod lock nut
Mod. U



Nose nut Mod. V



Rear trunnion bracket
Mod. I



Foot mount Mod. B



Front/rear flange mount
Mod. E



Proximity switches
Mod. CST



Proximity switches
Mod. CSH



Proximity switches
Mod. CSG



Adapters Mod. S-CST-02



Guides Mod. 45NUT



Guides Mod. 45NHT



Guides Mod. 45NHB

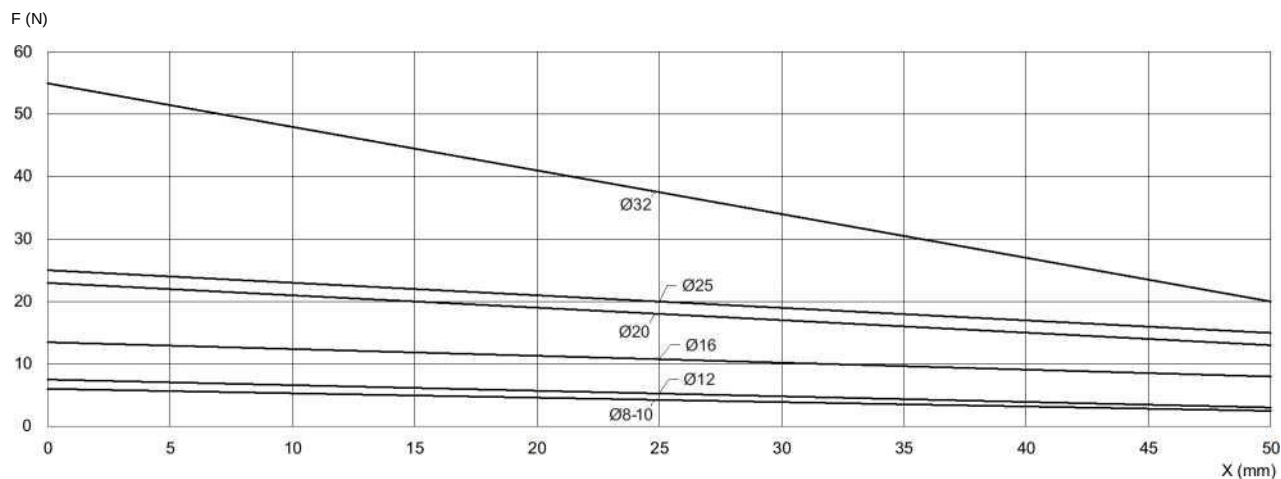
All accessories are supplied separately, except for piston rod lock nut Mod. U and nose nut Mod. V

SERIES 16-24: GRAPH SHOWING THE LOADS OF THE CYLINDER SPRINGS

Check the force of the spring on the graph, according to the size chosen.

F = Force of the spring (N)

X = Cylinder stroke (mm)



SERIES 16, 23, 24 AND 25 MINI-

SERIES 23: APPLICABLE MASS ACCORDING TO THE CYLINDER'S SPEED

CHOICE OF THE CYLINDER

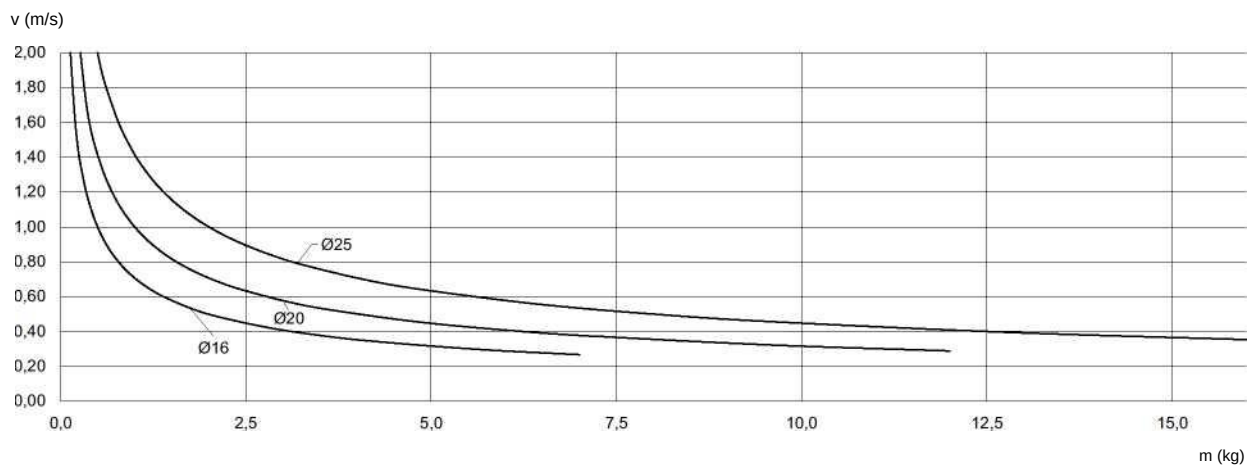
- 1) Choose the right size according to the force needed in the application
- 2) Check on the graph if the working conditions, mass and speed intersect at a point below the curve that corresponds to the size chosen

m = mass applied to the cylinder (kg)

v = speed applied to the cylinder (m/s)

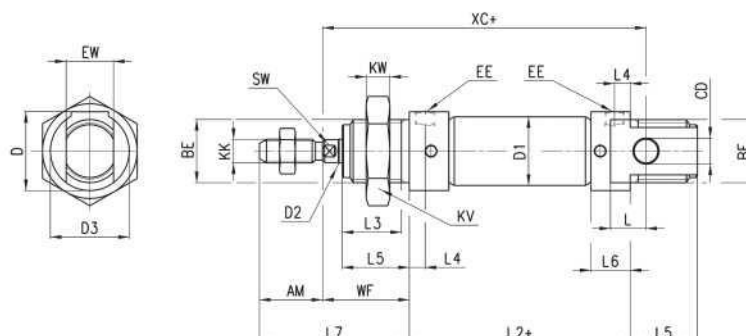
Example:

Diameter = 20 mm; Max speed = 0,4 m/s; Applicable mass = 6kg;

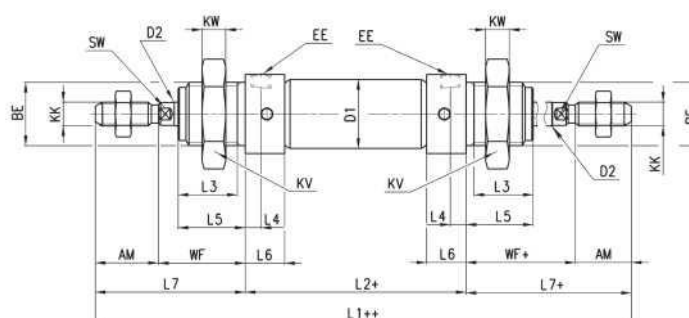


Series 16, 23, 24 and 25 mini-cylinders

SERIES 16, 23, 24 AND 25 MINI-



+ = add the stroke



DIMENSIONS

Series	0	EW	KW	BE	KK	CD	øD1	EE	øD2	L1+	XC+	L2+	AM	L3	L4	L5	L	WF	L6	L7	KV	SW	D	D3	FronT/rear cushion sTroke
16	8	8	7	M12x1,25	M4x0,7	4	9,3	M5	4	86	64	46	12	10	4,5	12	6	16	9	28	19		15	15	-
16	10	8	7	M12x1,25	M4x0,7	4	11,3	M5	4	86	64	46	12	10	4,5	12	6	16	9	28	19		15	15	-
16	12	12	8	M16x1,5	M6x1	6	13,3	M5	6	105	75	50	16	15	4,5	17	9	22	9	38	24	5	20,5	20	-
23	16	12	8	M16x1,5	M6x1	6	17,3	M5	6	111	82	56	16	15	5,5	17	9	22	12	38	24	5	20,5	20	10
24-25	16	12	8	M16x1,5	M6x1	6	17,3	M5	6	111	82	56	16	15	5,5	17	9	22	10	38	24	5	20,5	20	10
23-24-25	20	16	10	M22x1,5	M8x1,25	8	21,3	G1/8	8	132	95	68	20	18		820	12	24	16	44	32	7	27	27	15
23-24-25	25	16	10	M22x1,5	M10x1,25	8	26,5	G1/8	10	141,5	104	69,5	22	20		822	12	28	16	50	32	9	27	27	16
24-25	32	26	8	M30x1,5	M10x1,25	12	33,6	G1/8	12	139	105	69	20	19	7,5	22	13	28	15	48		10	36,5	35	18

Series 16, 23, 24 and 25 mini-cylinders with through-rod

+ = add the stroke once
++ = add the stroke twice

DIMENSIONS

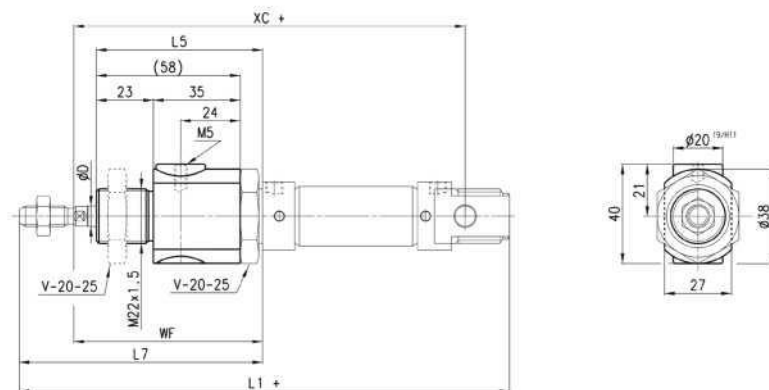
Series	0	KW	BE	KK	øD1	EE	øD2	L1++	L2+	AM	L3	L4	L5	WF+	L6	L7+	KV	SW	Front/rear cushion sStroke
16	8	7	M12x1,25	M4x0,7	9,3	M5	4	102	46	12	10	4,5	12	16	9	28	19		
16	10	7	M12x1,25	M4x0,7	11,3	M5	4	102	46	12	10	4,5	12	16	9	28	19		
16	12	8	M16x1,5	M6x1	13,3	M5	6	126	50	16	15	4,5	17	22	9	38	24	5	
23	16	8	M16x1,5	M6x1	17,3	M5	6	132	56	16	15	5,5	17	22	12	38	24	5	10
24-25	16	8	M16x1,5	M6x1	17,3	M5	6	132	56	16	15	5,5	17	22	10	38	24	5	10
23-24-25	20	10	M22x1,5	M8x1,25	21,3	G1/8	8	156	68	20	18	8	20	24	16	44	32	7	15
23-24-25	25	10	M22x1,5	M10x1,25	26,5	G1/8	10	169,5	69,5	22	20	8	22	28	16	50	32	9	16

24-25	32	8	M30x1,5	M10x1,25	33,6	G1/8	12	165	69	20	19	7,5	22	28	15 48	-	10	18
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Series 23 - 24 - 25 mini-cylinders with rod lock (Mod. RLC)



+ = add the stroke



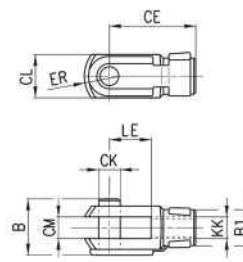
DIMENSIONS

Series	0	⁶⁷ D	WF	L5	L7	XC+	L1+	F (N)
23-24-25	20	8	74	70	94	145	182	300
23-24-25	25	10	76	70	98	152	189,5	400

Rod fork end Mod. G



ISO 8140
Material: zinc-plated steel.



DIMENSIONS

Mod.	0	CL	ER	CE	B	CM	OCK	LE	KK	OB1
G-8-10	8-10	8	5	16	11	4	4	8	M4x0,7	8
G-12-16	12-16	12	7	24	16	6	6	12	M6x1	10
G-20	20	16	10	32	22	8	8	16	M8x1,25	14
G-25-32	25-32	20	12	40	26	10	10	20	M10x1,25	18

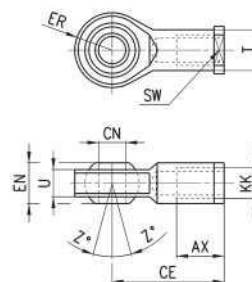
DIMENSIONS

Mod.	Ø	H	I	Z	øA	KK	E	L	L3	L4	L1	B1	SW2	SW1	AX	SW	øD
GK-12-16	12-16	14.5	13	3	6	M6x1	1	35	11	2.5	17.5	4	10	5	12.5	7	8.5
GK-20	20	19	17	4	8	M8x1,25	2	57	21	5	26	4	13	7	16	11	12.5
GK-25-32	25-32	32	30	4	14	M10x1,25	2	71.5	20	7.5	35	5	17	12	22	19	22

Swivel ball joint Mod. GA



ISO 8139
Material: zinc-plated steel.

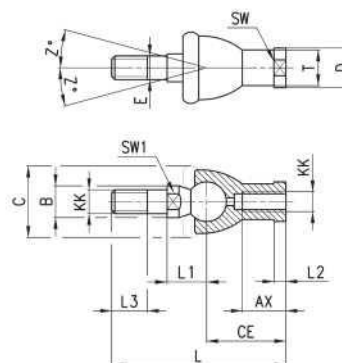


DIMENSION											
Mod.	0	øCN(H7)	U	EN	ER	AX	CE	KK	0T	Z	SW
GA-8-10	8-10	5	6	8	9	10	27	M4x0.7	9	6.5°	9
GA-12-16	12-16	6	7	9	10	12	30	M6x1	10	6.5°	11
GA-20	20	8	9	12	12	16	36	M8x1.25	12.5	6.5°	14
GA-32	25-32	10	10.5	14	14	20	43	M10x1.25	15	6.5°	17

Piston rod socket joint Mod. GY



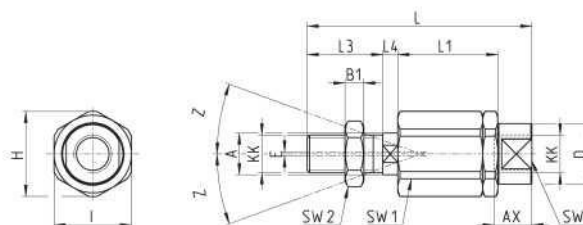
ISO 8139
Material: zama and zinc-plated steel.



DIMENSION																
Mod.	0	Z	E	SW	øT	øD	øC	øB	KK	L3	SW1	L1	L	CE	AX	L2
GY-12-16	12-16	15	6	11	10	13	20	10	M6x1	11	8	12,2	55	28	15	5
GY-20	20	15	8	14	12,5	16	24	12	M8x1,25	12	10	16	65	32	16	5
GY-32	25-32	15	10	17	15	19	28	14	M10x1,25	15	11	19,5	74	35	18	6,5

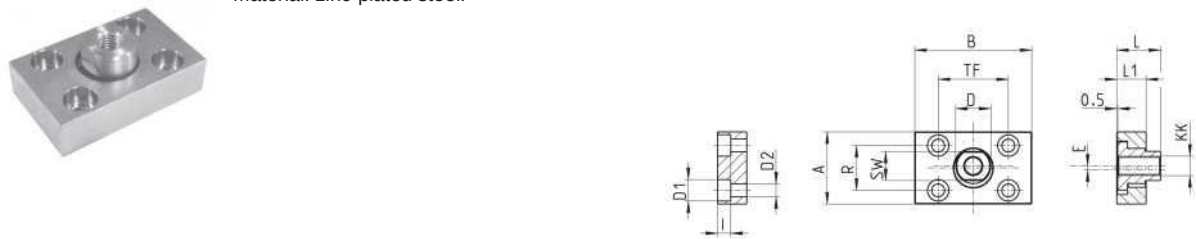
Self aligning rod Mod. GK

Material: zinc-plated steel.



Coupling piece Mod. GKF

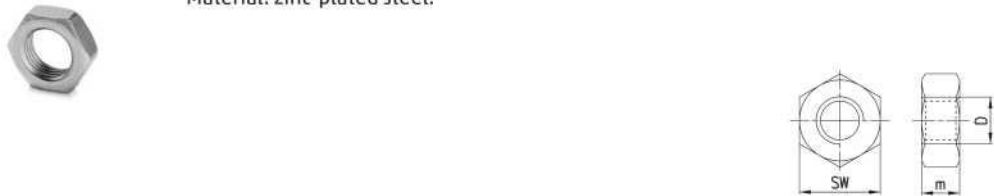
Material: zinc-plated steel.



DIMENSIONS														
Mod.	0	0 D1	I	0 D2	A	R	SW	B	TF	0 D	E	L	L1	KK
GKF-20	20	5,5			30	20	13	35	25	14	1,5	22,5	10	M8x1,25
GKF-25-32	25-32	11	6,8	6,6	37	23	15	60	36	18	2	22,5	15	M10x1,25

Piston rod lock nut Mod. U

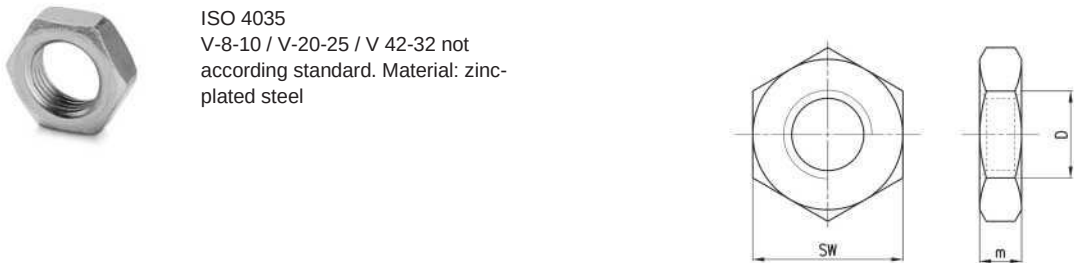
ISO 4035
Material: zinc-plated steel.



DIMENSIONS				
Mod.	0	SW	m	D
U-8-10	8-10	7	3	M4X0,7
U-12-16	12-16	10	4	M6X1
U-20	20	13	5	M8X1,25
U-25-32	25-32	17	6	M10X1,25

Nose nut Mod.V

ISO 4035
V-8-10 / V-20-25 / V 42-32 not
according standard. Material: zinc-
plated steel



DIMENSIONS				
Mod.	0	D	m	SW
V-8-10	8-10	M12X1,25	7	19
V-12-16	12-16	M16X1,5	8	24
V-20-25	20-25	M22X1,5	10	32

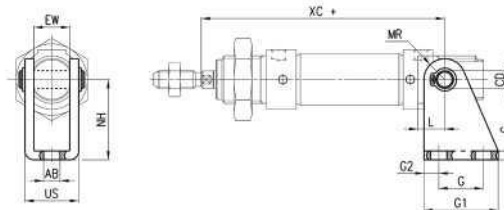
V-42-32	32	M30x1,5	8	1.05.08
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Rear trunnion bracket Mod. I

Supplied with:



1x zinc-plated steel rear trunnion
1x stainless steel
clevis pin 2x steel Seeger
DIMENSIONS



+ = add the stroke

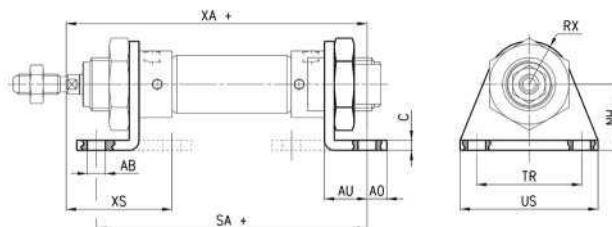
DIMENSION

Mod.	0	EW	0AB	US	NH	XC+	MR	L	G2	G	G1	CD	C
I-8-10	8-10	8	4,5	13,1	24	64	5	6	3,5	12,5	20	4	2,5
I-12-16	12	12	5,5	18,1	27	75	7	9	5	15	25	6	3
I-12-16	16	12	5,5	18,1	27	82	7	9	5	15	25	6	3
I-20-25	20	16	6,6	24,1	30	95	10	12	6	20	32	8	4
I-20-25	25	16	6,6	24,1	30	104	10	12	6	20	32	8	4

Foot mount Mod. B



Feet and nose nut material: zinc-plated steel.



Supplied with:
2x feet
1x nose nut mod. V

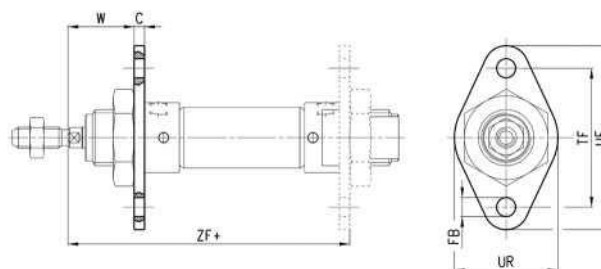
+ = add the stroke

Mod.	0	0AB	XS	XA+	SA+	AO	AU	C	RX	TR	US	NH
B-8-10	8-10	4,5	24	72,5	67	4,5	10,5	2,5	10	25	35	16
B-12-16	12	5,5	32	82,5	76	6	13	3	13	32	42	20
B-12-16	16	5,5	32	91	82	6	13	3	13	32	42	20
B-20-25	20	6,6	36	108	100	8	16	4	20	40	54	25
B-20-25	25	6,6	40	113,5	101,5	8	16	4	20	40	54	25
B-24-32	32	7	40	113	101	7	16	4	20,5	58	66	28

Front/rear flange mount Mod. E



Material: zinc-plated steel.



+ = add the stroke

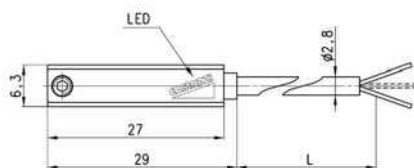
DIMENSIONS

Mod.	0	W	C	ZF+	FB	UF	TF	UR
E-8-10	8-10	13,5	2,5	64,5	4,5	40	30	25
E-12-16	12	19	3	75	5,5	53	40	30
E-12-16	16	19	3	81	5,5	53	40	30
E-20-25	20	20	4	96	6,6	66	50	40
E-20-25	25	24	4	101,5	6,6	66	50	40

Magnetic proximity switches with 2- or 3-wire cable for T-slot



Note for 2-wire switches Mod. CST-220, CST-220-5:
in case of polarity reversing the sensor will still be operating, but the LED diode won't turn on.



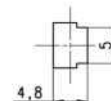
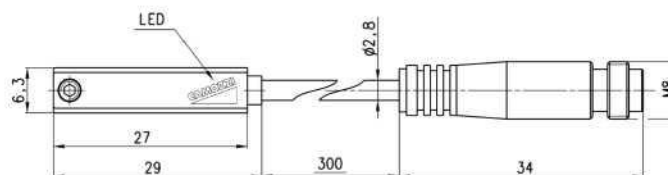
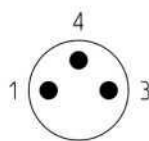
Further details can be found in the "Proximity switch" chapter.

Mod.	Operation	Connections	Voltage	Output	Max. current	Max Load	Protection	L = length cable
CST-220	Reed	2 wires 10	110 V AC/DC-230 V AC	-	250 mA	10 VA / 8W	None	2 m
CST-220-5	Reed	2 wires 10	110 V AC/DC-230 V AC	-	250 mA	10 VA / 8 W	None	5 m
CST-220-12	Reed	2 wires 10	110 V AC/DC-230 V AC	-	250 mA	10 VA / 8W	None	12 m
CST-220EX	Reed	2 wires 10	110 V AC/DC-230 V AC	-	250 mA	10 VA / 8W	None	2 m
CST-220-5EX	Reed	2 wires 10	110 V AC/DC-230 V AC	-	250 mA	10 VA / 8W	None	5 m
CST-220-12EX	Reed	2 wires 10	110 V AC/DC-230 V AC	-	250 mA	10 VA / 8W	None	12 m
CST-232	Reed	3 wires	5 T 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing	2 m
CST-232-5	Reed	3 wires	5 T 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing	5 m
CST-232EX	Reed	3 wires	5 T 30 V AC/DC	PNP	250 mA	10 VA / 8W	Against polarity reversing	2 m
CST-232-5EX	Reed	3 wires	5 T 30 V AC/DC	PNP	250 mA	10 VA / 8W	Against polarity reversing and overvoltage	5 m
CST-332	Magnetoresistive	3 wires	10 T 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	2 m
CST-332-5	Magnetoresistive	3 wires	10 T 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	5 m
CST-332EX	Magnetoresistive	3 wires	10 T 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	2 m
CST-332-5EX	Magnetoresistive	3 wires	10 T 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	5 m
CST-432	Reed	3 wires	5 T 30 V AC/DC	PNP-NC	250 mA	10 VA / 8 W	Against polarity reversing	2 m
CST-432-5	Reed	3 wires	5 T 30 V AC/DC	PNP-NC	250 mA	10 VA / 8 W	Against polarity reversing	5 m
CST-432EX	Reed	3 wires	5 T 30 V AC/DC	PNP-NC	250 mA	10 VA / 8 W	Against polarity reversing	2 m
CST-432-5EX	Reed	3 wires	5 T 30 V AC/DC	PNP-NC	250 mA	10 VA / 8 W	Against polarity reversing	5 m
CST-532	Hall effect	3 wires	10 T 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	2 m
CST-532-5	Hall effect	3 wires	10 T 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	5 m
CST-532EX	Hall effect	3 wires	10 T 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	2 m
CST-532-5EX	Hall effect	3 wires	10 T 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	5 m

Magnetic proximity switches with M8 3-pin connector for T-slot



Note for 2-wire switch Mod. CST-250N:
in case of polarity reversing the sensor will still be operating, but the LED diode won't turn on.



Cable length: 0.3 m

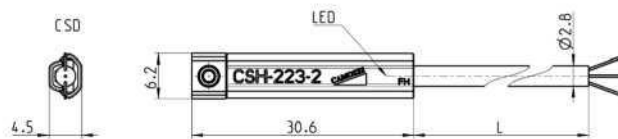
Further details can be found in the "Proximity switch" chapter.

Mod.	Operation	Connection	Voltage	Output	Max. current	Max load	Protection
CST-250N	Reed	2 wires M8 male 3 pin	10 ÷ 110 V AC/DC	-	250 mA	10 VA / 8 W	None
CST-250NEX	Reed	2 wires M8 male 3 pin	10 ÷ 110 V AC/DC	-	250 mA	10 VA / 8 W	None
CST-262	Reed	3 wires M8 male 3 pin	5 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing
CST-262EX	Reed	3 wires M8 male 3 pin	5 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing
CST-362	Magnetoresistive	3 wires M8 male 3 pin	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage
CST-362EX	Magnetoresistive	3 wires M8 male 3 pin	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage
CST-562	Hall effect	3 wires M8 male 3 pin	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage
CST-562EX	Hall effect	3 wires M8 male 3 pin	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage

Magnetic proximity switches with 2- or 3-wire cable for H-slot



Further details can be found in the "Proximity switch" chapter.

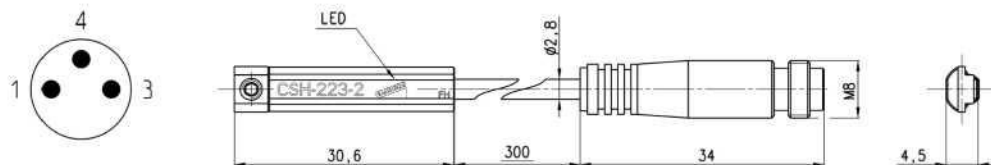


Mod.	Operation	Connection	Voltage	Output	Max current	Max load	Protection	L = cable length
CSH-223-2	Reed	2 wires	10 ÷ 30 V AC/DC	-	250 mA	10 VA / 8 W	Against polarity reversing	2 m
CSH-223-5	Reed	2 wires	10 ÷ 30 V AC/DC	-	250 mA	10 VA / 8 W	Against polarity reversing	5 m
CSH-223-10	Reed	2 wires	10 ÷ 30 V AC/DC	-	250 mA	10 VA / 8 W	Against polarity reversing and overvoltage	10 m
CSH-223-2EX	Reed	2 wires	10 ÷ 30 V AC/DC	-	250 mA	10 VA / 8 W	Against polarity reversing and overvoltage	2 m
CSH-223-5EX	Reed	2 wires	10 ÷ 30 V AC/DC	-	250 mA	10 VA / 8 W	Against polarity reversing	5 m
CSH-223-10EX	Reed	2 wires	10 ÷ 30 V AC/DC	-	250 mA	10 VA / 8 W	Against polarity reversing	10 m
CSH-221-2	Reed	2 wires	30 ÷ 230 V AC - 30 ÷ 110 V DC	-	250 mA	10 VA / 8 W	Against polarity reversing	2 m
CSH-221-5	Reed	2 wires	30 ÷ 230 V AC - 30 ÷ 110 V DC	-	250 mA	10 VA / 8 W	Against polarity reversing	5 m
CSH-221-2EX	Reed	2 wires	30 ÷ 230 V AC - 30 ÷ 110 V DC	-	250 mA	10 VA / 8 W	Against polarity reversing	2 m
CSH-221-5EX	Reed	2 wires	30 ÷ 230 V AC - 30 ÷ 110 V DC	-	250 mA	10 VA / 8 W	Against polarity reversing	5 m
CSH-233-2	Reed	3 wires	10 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing	2 m
CSH-233-5	Reed	3 wires	10 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing	5 m
CSH-233-2EX	Reed	3 wires	10 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing	2 m
CSH-233-5EX	Reed	3 wires	10 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing	5 m
CSH-334-2	Magnetoresistive	3 wires	10 ÷ 27 V DC	PNP	250 mA	6 W	Against polarity reversing and overvoltage	2 m
CSH-334-5	Magnetoresistive	3 wires	10 ÷ 27 V DC	PNP	250 mA	6 W	Against polarity reversing and overvoltage	5 m
CSH-334-2EX	Magnetoresistive	3 wires	10 ÷ 27 V DC	PNP	250 mA	6 W	Against polarity reversing and overvoltage	2 m
CSH-334-5EX	Magnetoresistive	3 wires	10 ÷ 27 V DC	PNP	250 mA	6 W	Against polarity reversing and overvoltage	5 m
CSH-433-2	Reed NC	3 wires	10 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing and overvoltage	2 m
CSH-433-5	Reed	3 wires	10 ÷ 30 V AC/DC	PNP-NC	250 mA	10 VA / 8 W	Against polarity reversing	5 m
CSH-433-2EX	Reed	3 wires	10 ÷ 30 V AC/DC	PNP-NC	250 mA	10 VA / 8 W	Against polarity reversing	2 m
CSH-433-5EX	Reed	3 wires	10 ÷ 30 V AC/DC	PNP-NC	250 mA	10 VA / 8 W	Against polarity reversing	5 m

Note for 2-wire switches Mod. CSH-223-2, CSH-223-5, CSH-221-2, CSH-221-5:
in case of polarity reversing the sensor will still be operating, but the LED diode won't turn on.

Magnetic proximity switches with M8 3-pin connector for H-slot

Note for 2-wire switch Mod. CSH-253:
in case of polarity reversing the sensor will still be operating, but LED diode won't turn on.



Cable length: 0.3 m

Further details can be found in the "Proximity switch" chapter.

Mod.	Operation	Connection	Voltage	Output	Max current	Max load	Protection
CSH-253	Reed NO	2 wires M8 male 3 pin	10 * 30 V AC/DC	-	250 mA	10 VA / 8 W	Against polarity reversing
CSH-253EX	Reed NO	2 wires M8 male 3 pin	10 * 30 V AC/DC	-	250 mA	10 VA / 8 W	Against polarity reversing
CSH-263	Reed NO	3 wires M8 male 3 pin	10 * 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing
CSH-263EX	Reed NO	3 wires M8 male 3 pin	10 * 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing
CSH-364	Magnetoresistive	3 wires M8 male 3 pin	10 * 27 V DC	PNP	250 mA	6 W	Against polarity reversing and overvoltage
CSH-364EX	Magnetoresistive	3 wires M8 male 3 pin	10 * 27 V DC	PNP	250 mA	6 W	Against polarity reversing and overvoltage
CSH-463	Reed NC	3 wires M8 male 3 pin	10 * 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing

CSH-463EX	Reed NC	3 wires M8 male 3 pin	10 * 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing
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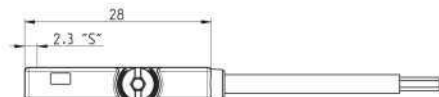
Magnetic proximity switches, ATEX "II 3 GD" certified, T-slot, straight

New


Note for 2-wire switches Mod. CSG-223-2-EX, CSG-223-5-EX, CSG-324-2-EX, CSG-324-5-EX: in case of polarity reversing the sensor will still be operating, but the LED diode won't turn on.



Further details can be found in the "Proximity switch" chapter.



Mod.	Operation	Connection	Voltage	Output	Max current	Max load	Protection	L = cable length (m)	LED colour
CSG-223-2-EX	Reed NO	2 wires	5 * 30 V AC/DC		100 mA	3 W	IP67	2	Red
CSG-223-5-EX	Reed NO	2 wires	5 * 30 V AC/DC		100 mA	3 W	IP67	5	Red
CSG-233-2-EX	Reed NO	3 wires	10 * 30 V AC/DC		500 mA	10 W	IP67	2	Yellow
CSG-233-5-EX	Reed NO	3 wires	10 * 30 V AC/DC		500 mA	10 W	IP67	5	Yellow
CSG-324-2-EX	Magnetoresistive NO	2 wires	10 * 28 V DC		50 mA	1.5 W	IP67	2	Red
CSG-324-5-EX	Magnetoresistive NO	2 wires	10 * 28 V DC		50 mA	1.5 W	IP67	5	Red
CSG-334-2-EX	Magnetoresistive NO	3 wires	10 * 28 V DC	PNP	200 mA	5.5 W	IP67	2	Yellow
CSG-334-5-EX	Magnetoresistive NO	3 wires	10 * 28 V DC	PNP	200 mA	5.5 W	IP67	5	Yellow
CSG-534-2-EX	Magnetoresistive NO	3 wires	10 * 28 V DC	NPN	200 mA	5.5 W	IP67	2	Red
CSG-534-5-EX	Magnetoresistive NO	3 wires	10 * 28 V DC	NPN	200 mA	5.5 W	IP67	5	Red
CSG-734-2-EX	Magnetoresistive NC	3 wires	10 * 28 V DC	NPN	200 mA	5.5 W	IP67	2	Red
CSG-734-5-EX	Magnetoresistive NC	3 wires	10 * 28 V DC	NPN	200 mA	5.5 W	IP67	5	Red
CSG-634-2-EX	Magnetoresistive NC	3 wires	10 * 28 V DC	PNP	200 mA	5.5 W	IP67	2	Yellow
CSG-634-5-EX	Magnetoresistive NC	3 wires	10 * 28 V DC	PNP	200 mA	5.5 W	IP67	5	Yellow

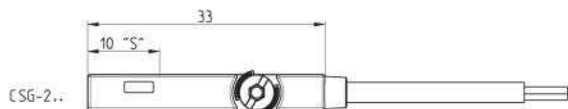
Magnetic proximity switches, UL certified, T-slot, straight

New


Note for 2-wire switches Mod. CSG-223-2-UL, CSG-223-5-UL, CSG-324-2-UL, CSG-324-5-UL: in case of polarity reversing the sensor will still be operating, but the LED diode won't turn on.



Further details can be found in the "Proximity switch" chapter.



Mod.	Operation	Connection	Voltage	Output	Max current	Max load	Protection	L = cable length (m)	LED colour
CSG-223-2-UL	Reed	2 wires	5 * 30 V AC/DC	-	60 mA	1.8 W	IP67	2	Red
CSG-223-5-UL	Reed	2 wires	5 * 30 V AC/DC	-	60 mA	1.8 W	IP67	5	Red
CSG-223-10-UL	Reed	2 wires	5 * 30 V AC/DC	-	60 mA	1.8 W	IP67	10	Red
CSG-233-2-UL	Reed	3 wires	10 * 30 V AC/DC	-	100 mA	3 W	IP67	2	Yellow
CSG-233-5-UL	Reed	3 wires	10 * 30 V AC/DC	-	100 mA	3 W	IP67	5	Yellow
CSG-233-10-UL	Reed	3 wires	10 * 30 V AC/DC	-	100 mA	3 W	IP67	5	Yellow
CSG-324-2-UL	Magnetoresistive	2 wires	10 * 28 V DC	-	40 mA	1.2 W	IP67	2	Red
CSG-324-5-UL	Magnetoresistive	2 wires	10 * 28 V DC	-	40 mA	1.2 W	IP67	5	Red
CSG-334-2-UL	Magnetoresistive	3 wires	10 * 28 V DC	PNP	100 mA	3 W	IP67	2	Yellow
CSG-334-5-UL	Magnetoresistive	3 wires	10 * 28 V DC	PNP	100 mA	3 W	IP67	5	Yellow
CSG-534-2-UL	Magnetoresistive	3 wires	10 * 28 V DC	NPN	100 mA	3 W	IP67	2	Red
CSG-534-5-UL	Magnetoresistive	3 wires	10 * 28 V DC	NPN	100 mA	3 W	IP67	5	Red

Products designed for industrial applications.
General terms and conditions for sale are available on www.camozzi.com.

1.05.12

| Adapters Mod. S-CST-02..21 for Series CST-CSH-CSG sensors

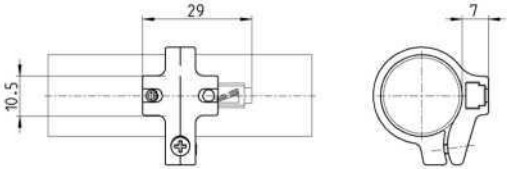
Materials:
 - technopolymer (S-CST-02^04)



Cylinders Series	
23, 24, 25	16
23, 24, 25	20
23, 24, 25	25
23, 24, 25	32

1.05.15

S-CST-02*04 S-CST-18

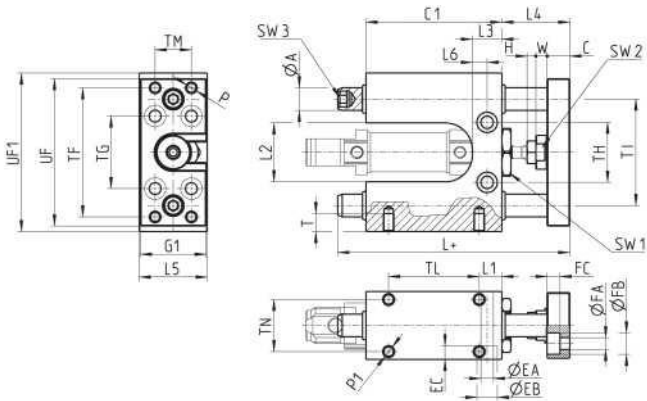


Guides Mod. 45NUT for cylinders Series 16, 24, 25



Suitable for cylinders Series 16, 24 and 25 DIN/ISO 6432, 0 12 and 16. These guides do not need lubrication. For applicable loads see graph 1.

Cylinders 0 12 and 0 16 use the same guides.



Supplied with:
1x fixing nut.

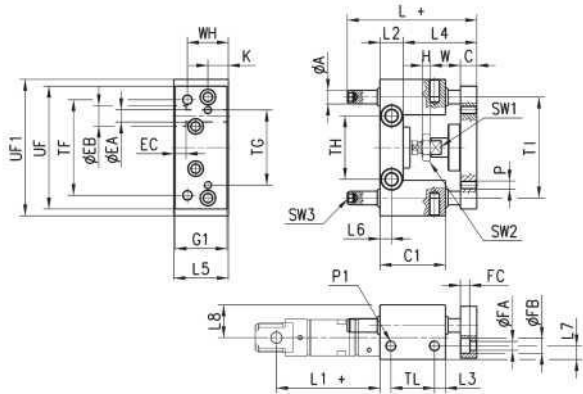
Draw note:
+ = add the stroke

DIMENSION																																	
0	TF	TG	TH	TI	TMTL	TN	UF1	UFG1	øA	C1	H	W	C	L	L1	L2	L3	L4	L5	L6	P	P1	T	øEA	øEB	EC	øFA	øFB	FC	SW1	SW2	SW3	
12	57	32	26,5	47	1640	23	70	65	29	10	60	4	5	10	102,5	10	26	13	30	30	6,5	M5	M5	8	5,5	9	5,7	5,5	9,5	5,7	21	13	6
16	57	32	26,5	47	1640	23	70	65	29	10	60	4	5	10	102,5	10	26	13	30	30	6,5	M5	M5	8	5,5	9	5,7	5,5	9,5	5,7	21	13	6

Guides Mod. 45NUT for cylinders Series 24, 25



Suitable for cylinders Series 24 and 25 DIN/ISO 6432, 0 20 and 25. These guides do not need lubrication. For applicable loads see graph 1.



Supplied with:
1x fixing nut.

Draw note:
+ = add the stroke

DIMENSIONS																																							
0	TFTG LL1	TH L2	TI L3	TL L4	UF1 L5	UF L6	G1 L7	øA L8	WH P	C1 P1	H øEA	W øEB	C EC	K øFA	øFB	FCSW1SW2																							
20	7055	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	7055	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 for cylinders Series 24, 25

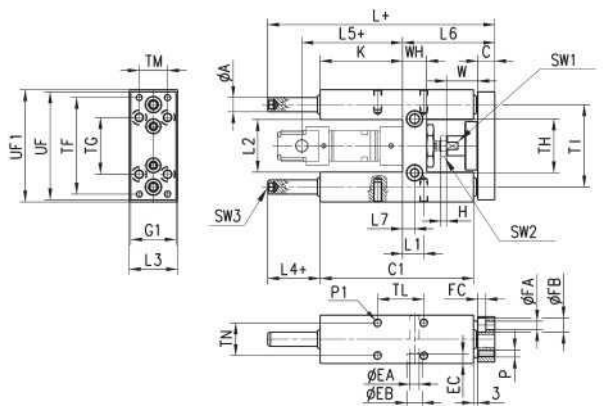


Suitable for cylinders Series 24 and 25 DIN/ISO 6432, 0 20 and 25. These guides do not need lubrication.

For applicable loads see graph 3.

Supplied with:
1x fixing nut.

Draw note:
+ = add the stroke



DIMENSIONS																																				
0	TFTG	TH	TI	TL	TM	TN	UF	G1	UF1	øA	WH	C1	H	W	C	K	L	L1	L2	L3	L4	L5	L6	L7	P	P1	T	øEA	øEB	EC	øFA	øFB	FC	SW1	SW2	SW3
20	6840	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	6840	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

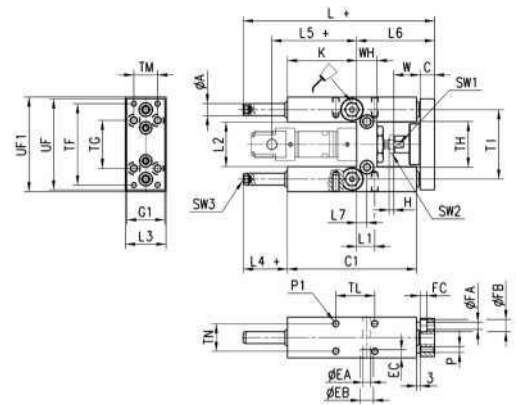
Guides Mod. 45NHB for cylinders Series 24, 25



Suitable for cylinders Series 24 and 25 DIN/ISO 6432, 0 20 and 25. To lubricate these guides, use the special lubricator. For applicable loads see graph No 2.

Supplied with:
1x fixing nut.

Draw note:
+ = add the stroke



DIMENSIONS																																				
0	TFTG	TH	TI	TL	TM	TN	UF	G1	UF1	øA	WH	C1	H	W	C	K	L	L1	L2	L3	L4	L5	L6	L7	P	P1	T	øEA	øEB	EC	øFA	øFB	FC	SW1	SW2	SW3
20	6840	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	6840	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