MINI-CYLINDERS
SERIES 16, 23, 24 AND 25

Series 16: Ø 8, 10, 12 mm - non-magnetic
Series 23: Ø 16, 20, 25 mm - magnetic, auto-cushioned
Series 24: Ø 10, 12, 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 (Ø 8, 10, 12, 16, 20, 25, 32)
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	Ø 8, 10: 10 - 250 mm Ø 12: 10 - 300 mm Ø 16: 10 - 600 mm Ø 20, 25, 32: 10 - 1000 mm
Bores	Series 16: Ø 8, 10, 12 Series 23: Ø 16, 20, 25 Series 24: Ø 10, 12, 16, 20, 25, 32 Series 25: Ø 16, 20, 25, 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 ait in class [7:8:4] according to ISO 8573-1. If lubricated air is used, it is recommended to use oil ISOVG32. Once applied the lubrication should never be interrupted.
Speed	10 ÷ 1000 mm/sec (without load)

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MINI-CYLINDERS
SERIES 16, 23, 24 AND 25 - STROKES

Standard strokes for minicylinders

■ = Double-acting
✖ = Single-acting

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

Coding example

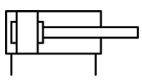
24	N	2	A	16	A	100

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 and 24, Ø 16, 20, 25, 32) 2 = Double-acting 3 = Double-acting, through-rod (excluding series 24, Ø 10, 12) 7 = Single-acting, through-rod (only for series 16 and 24 Ø 16, 20, 25, 32)	**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 (Ø 32 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 and 24) 12 = 12 mm (only for series 16 and 24) 16 = 16 mm (only for series 23, 24 and 25)	20 = 20 mm (only for series 23, 24 and 25) 25 = 25 mm (only for series 23, 24 and 25) 32 = 32mm (only for series 24 e 25)
A	CONSTRUCTION TYPE A = Nose nut Mod. V + Piston rod lock nut Mod. U RL = Cylinder with rod lock (only for Ø 20 - Ø 25)	
100	STROKE (See graph)	
	OPTIONS = Standard V = Rod seal in FKM W = All seals in FKM, +130°C (only for series 25: Ø 16, 20, 25)	
	STEM LENGHT = Standard (_ _ _) = Rod extended with _ _ _ mm	
	CERTIFICATIONS = Standard EX = ATEX (only for CONSTRUCTION type A)	

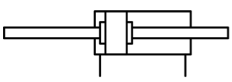
Pneumatic symbols

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

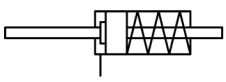
CD01



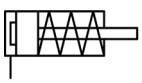
CD05



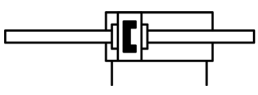
CS04



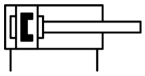
CS02



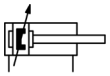
CD12



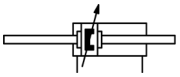
CD08



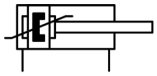
CD09



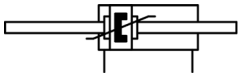
CD13



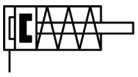
CD23



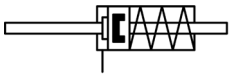
CD24



CS06



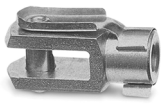
CS10



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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



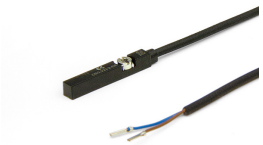
Front/rear flange mount Mod. E



Proximity switches Mod. CST



Proximity switches Mod. CSG



Adapters Mod. S-CST-02



Guides Mod. 45NUT



Guides Mod. 45NHB



Guides Mod. 45NHT

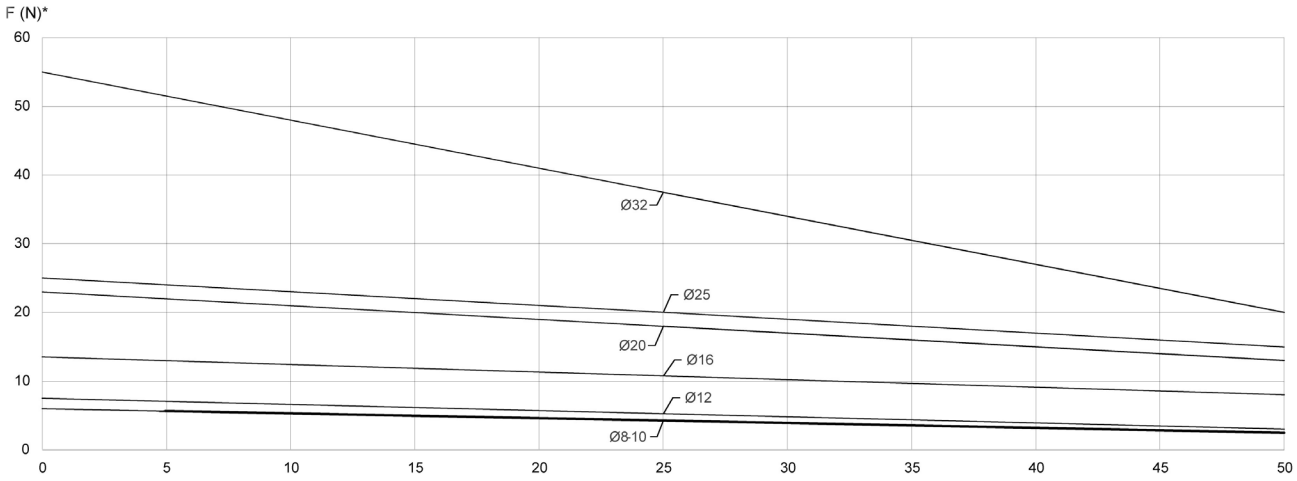


All accessories are supplied separately, except for piston rod lock nut Mod. U and nose nut Mod. V

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)



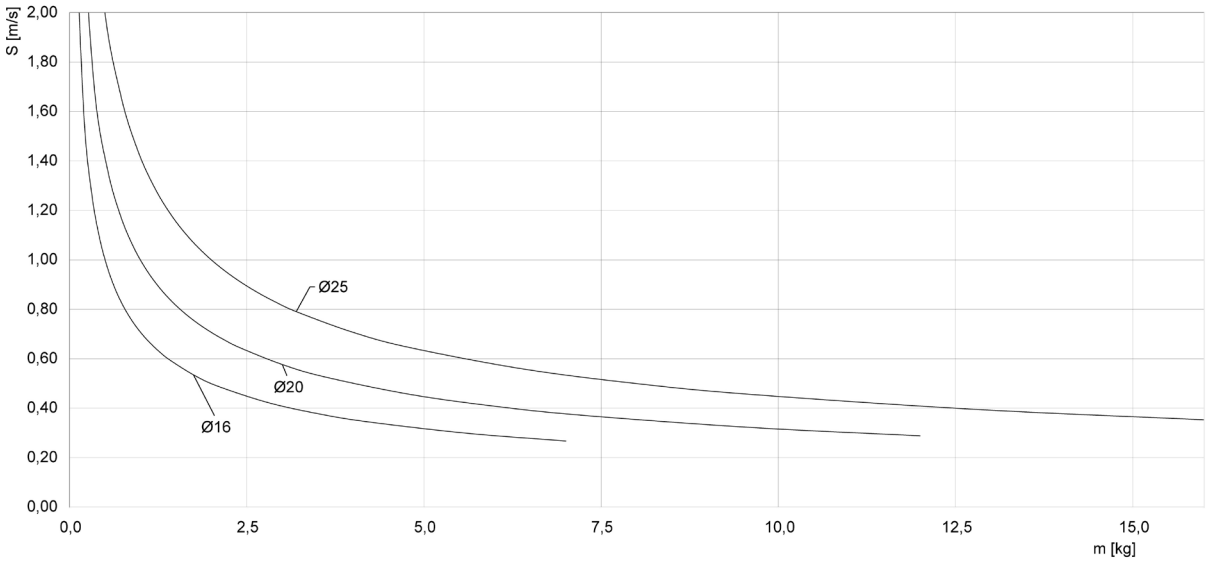
Series 23: applicable mass according to the cylinder's speed

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 intersectat 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)

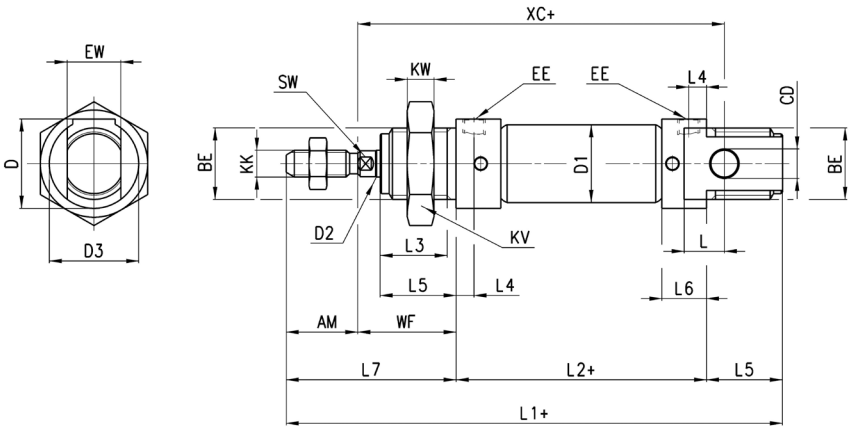
Example:
Diameter = 20 mm;
Max speed = 0,4 m/s;
Applicable mass = 6kg;



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Series 16, 23, 24 and 25 mini-cylinders



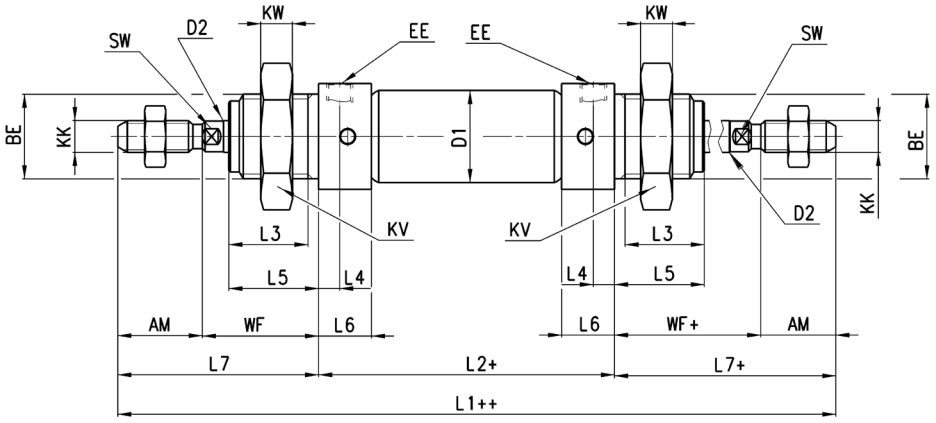


+ = add the stroke

Series	Ø	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	-
16-24	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	-
16-24	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	8	20	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	8	22	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





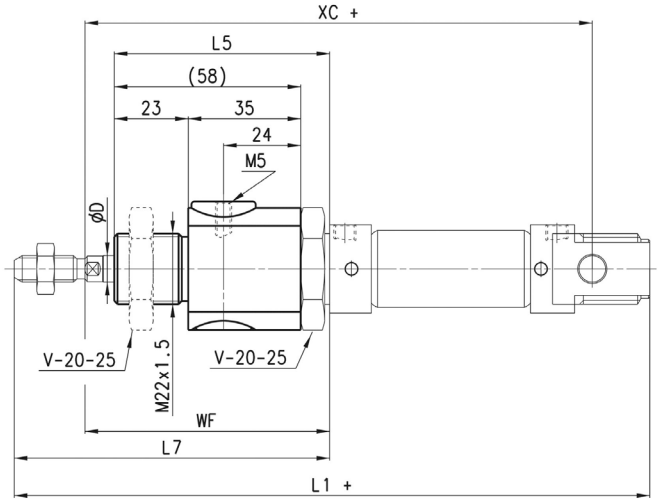
+ = add the stroke once
++ = add the stroke twice

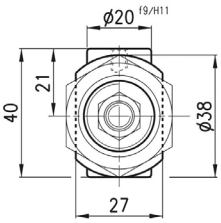
Series	Ø	KW	BE	KK	øD1	EE	ØD2	L1++	L2+	AM	L3	L4	L5	WF+	L6	L7+	KV	SW	Front/rear cushion stroke
16	8	7	M12x1,25	M4x0,7	9,3	M5	4	102	46	12	10	4,5	12	16	9	28	19	-	-
16	10	7	M12x1,25	M4x0,7	11,3	M5	4	102	46	12	10	4,5	12	16	9	28	19	-	-
16	12	8	M16x1,5	M6x1	13,3	M5	6	126	50	16	15	4,5	17	22	9	38	24	5	-
23	16	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

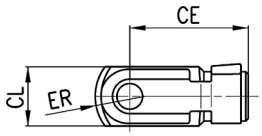
Series	Ø	D	WF	L5	L7	XC+	L1 +	F [N]
23-24-25	20	8	74	70	94	145	182	300
23-24-25	25	10	76	70	98	152	189,5	400

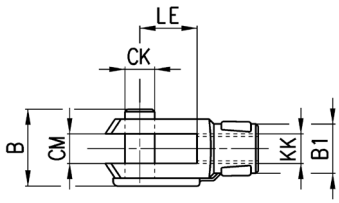
Rod fork end Mod. G



ISO 8140

Material:
zinc-plated steel



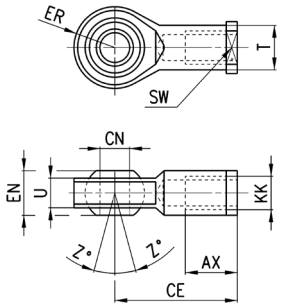


Mod.	Ø	CL	ER	CE	B	CM	⌀CK	LE	KK	⌀B1
G-8-10	8-10	8	5	16	11	4	4	8	M4x0,7	8
G-12-16	12-16	12	7	24	16	6	6	12	M6x1	10
G-20	20	16	10	32	22	8	8	16	M8x1,25	14
G-25-32	25-32	20	12	40	26	10	10	20	M10x1,25	18

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Swivel ball joint Mod. GA





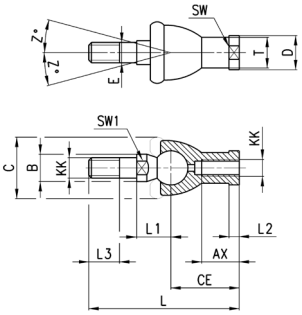
ISO 8139

Material:
zinc-plated steel

Mod.	Ø	øCN	U	EN	ER	AX	CE	KK	øT	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





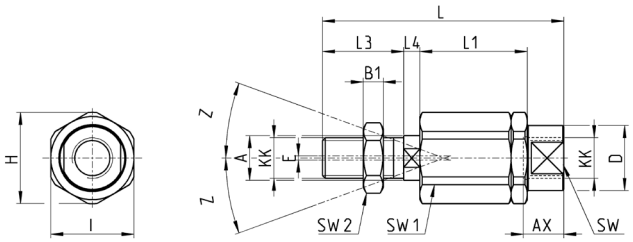
ISO 8139

Material:
zama and zinc-plated steel

Mod.	Ø	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

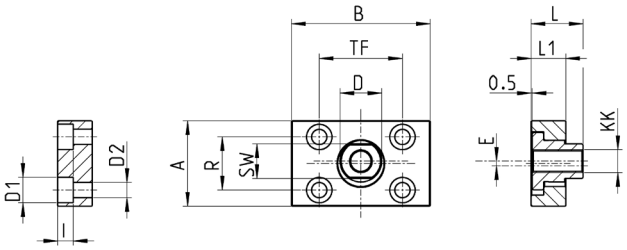
Mod.	Ø	H	I	Z	øA	KK	E	L	L3	L4	L1	B1	SW2	SW1	AX	SW	øD
GK-12-16	12-16	14.5	13	3	6	M6x1	1	35	11	2.5	17.5	4	10	5	12.5	7	8.5
GK-20	20	19	17	4	8	M8x1,25	2	57	21	5	26	4	13	7	16	11	12.5
GK-25-32	25-32	32	30	4	14	M10x1,25	2	71.5	20	7.5	35	5	17	12	22	19	22

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Coupling piece Mod. GKF



Material:
zinc-plated steel



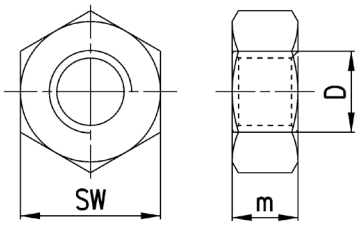
Mod.	Ø	₀D1	l	ØD2	A	R	SW	B	TF	₀D	E	L	L1	KK
GKF-20	20	5,5	-	-	30	20	13	35	25	14	1,5	22,5	10	M8x1,25
GKF-25-32	25-32	11	6,8	6,6	37	23	15	60	36	18	2	22,5	15	M10x1,25

Piston rod nut Mod. U



UNI EN ISO 4035

Material:
zinc-plated steel



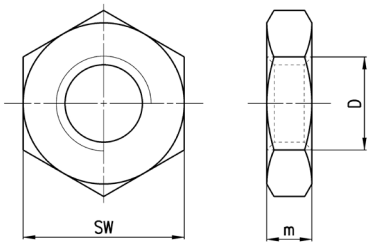
Mod.	Ø	SW	m	D
U-8-10	8-10	7	3	M4x0,7
U-12-16	12-16	10	4	M6x1
U-20	20	13	5	M8x1,25
U-25-32	25-32	17	6	M10x1,25

Nose nut Mod. V



ISO 4035
V-8-10 / V-20-25 / V 42-32
not according standard.

Material:
zinc-plated steel

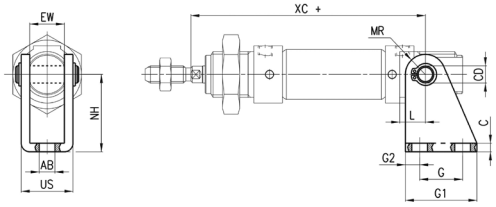


Mod.	Ø	D	M	SW
V-8-10	8-10	M12X1,25	7	19
V-12-16	20	M16X1,5	8	24
V-20-25	32	M22X1,5	10	32
V-42-32	32	M30x1,5	8	-

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Rear trunnion bracket Mod. I





Material:
zinc-plated steel

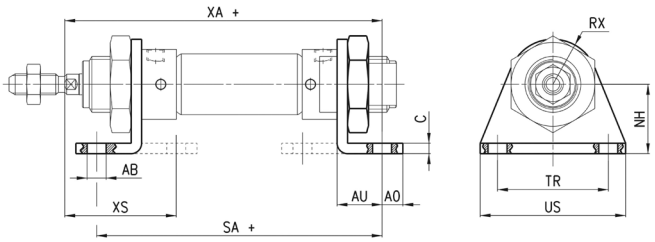
Supplied with:
2x Seeger
1x female support
1x piston pinr

+ = add the stroke

Mod.	Ø	EW		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
I-24-32	32	26	7	34	33	105	11,5	13	7	24	38	12	4

Foot mount Mod. B





Material:
zinc-plated steel

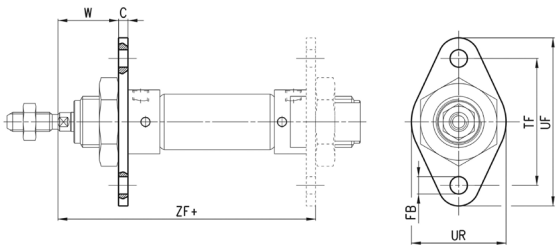
Supplied with:
2x feet
1x nose nut mod. V

+ = add the stroke

Mod.	Ø	ØAB	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





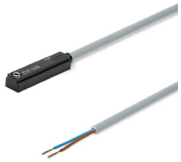
Material:
zinc-plated steel

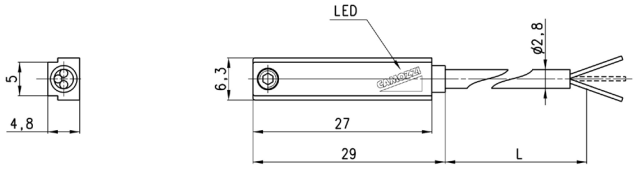
+ = add the stroke

Mod.	Ø	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
E-24-32	32	23	5	102	6,6	68	52	50

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





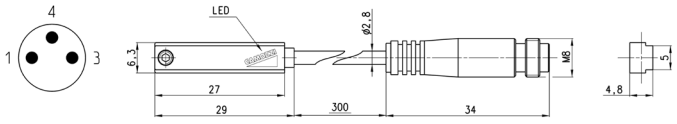
Further details can be found in the "Proximity switch" chapter.

Mod.	Operation	Connections	Voltage	Output	Max. current	Max Load	Protection	L	S	LED colour
CST-220*	Reed	2 wires	10 ÷ 110 V AC/DC-230 V AC	-	250 mA	10 VA / 8W	None	2 m	14,5 mm	Yellow
CST-220-5*	Reed	2 wires	10 ÷ 110 V AC/DC-230 V AC	-	250 mA	10 VA / 8 W	None	5 m	14,5 mm	Yellow
CST-220EX	Reed	2 wires	10 ÷ 110 V AC/DC-230 V AC	-	250 mA	10 VA / 8W	None	2 m	14,5 mm	Yellow
CST-220-5EX	Reed	2 wires	10 ÷ 110 V AC/DC-230 V AC	-	250 mA	10 VA / 8W	None	5 m	14,5 mm	Yellow
CST-220-12EX	Reed	2 wires	10 ÷ 110 V AC/DC-230 V AC	-	250 mA	10 VA / 8W	None	12 m	14,5 mm	Yellow
CST-232	Reed	3 wires	5 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing	2 m	14,5 mm	Yellow
CST-232-5	Reed	3 wires	5 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing	5 m	14,5 mm	Yellow
CST-232EX	Reed	3 wires	5 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8W	Against polarity reversing	2 m	14,5 mm	Yellow
CST-232-5EX	Reed	3 wires	5 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8W	Against polarity reversing and overvoltage	5 m	14,5 mm	Yellow
CST-332	Magnetoresistive	3 wires	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	2 m	7,5 mm	Yellow
CST-332-5	Magnetoresistive	3 wires	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	5 m	7,5 mm	Yellow
CST-332EX	Magnetoresistive	3 wires	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	2 m	7,5 mm	Yellow
CST-332-5EX	Magnetoresistive	3 wires	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	5 m	7,5 mm	Yellow
CST-432	Reed	3 wires	5 ÷ 30 V AC/DC	PNP-NC	250 mA	10 VA / 8 W	Against polarity reversing	2 m	14,5 mm	Yellow
CST-432-5	Reed	3 wires	5 ÷ 30 V AC/DC	PNP-NC	250 mA	10 VA / 8 W	Against polarity reversing	5 m	14,5 mm	Yellow
CST-432EX	Reed	3 wires	5 ÷ 30 V AC/DC	PNP-NC	250 mA	10 VA / 8 W	Against polarity reversing	2 m	14,5 mm	Yellow
CST-432-5EX	Reed	3 wires	5 ÷ 30 V AC/DC	PNP-NC	250 mA	10 VA / 8 W	Against polarity reversing	5 m	14,5 mm	Yellow
CST-532	Hall effect	3 wires	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	2 m	8,5 mm	Yellow
CST-532-5	Hall effect	3 wires	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	5 m	8,5 mm	Yellow
CST-532EX	Hall effect	3 wires	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	2 m	8,5 mm	Yellow
CST-532-5EX	Hall effect	3 wires	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	5 m	8,5 mm	Yellow

*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.

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





Cable length: 0.3 m

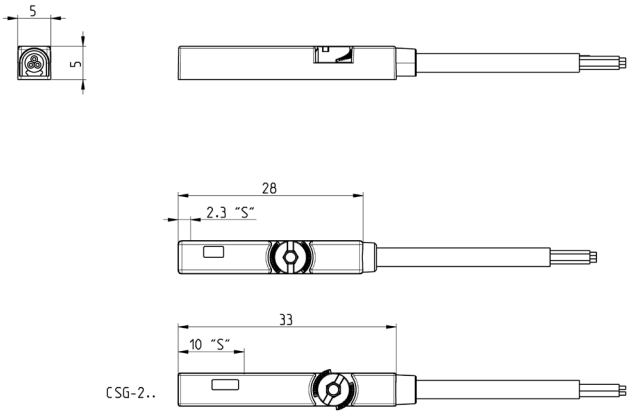
Mod.	Operation	Connection	Voltage	Output	Max. current	Max Load	Protection	L	S	LED colour
CST-250N*	Reed	2 wires M8 male 3 pin	10 ÷ 110 V AC/DC	-	250 mA	10 VA / 8 W	None	0,3 m	14,5 mm	Yellow
CST-250NEX	Reed	2 wires M8 male 3 pin	10 ÷ 110 V AC/DC	-	250 mA	10 VA / 8 W	None	0,3 m	14,5 mm	Yellow
CST-262	Reed	3 wires M8 male 3 pin	5 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing	0,3 m	14,5 mm	Yellow
CST-262EX	Reed	3 wires M8 male 3 pin	5 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing	0,3 m	14,5 mm	Yellow
CST-362	Magnetoresistive	3 wires M8 male 3 pin	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	0,3 m	7,5 mm	Yellow
CST-362EX	Magnetoresistive	3 wires M8 male 3 pin	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	0,3 m	7,5 mm	Yellow
CST-562	Hall effect	3 wires M8 male 3 pin	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	0,3 m	8,5 mm	Yellow
CST-562EX	Hall effect	3 wiresM8 male 3 pin	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	0,3 m	8,5 mm	Yellow

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

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Magnetic proximity switches, ATEX "II 3 GD" certified, T-slot, straight Mod. CSG



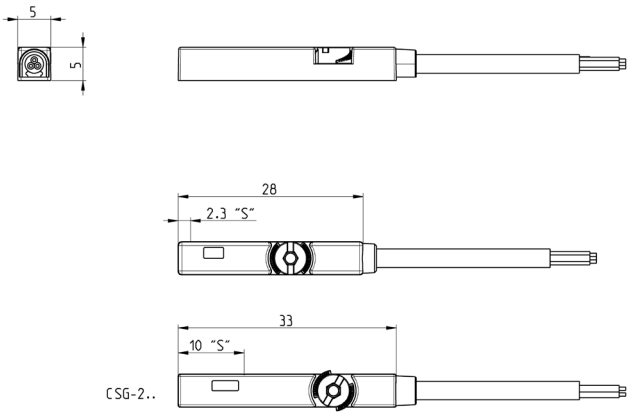


Mod.	Operation	Connection	Voltage	Output	Max. current	Max Load	Protection	L	S	LED colour
CSG-223-2-EX*	Reed NO	2 wires	5 ÷ 30 V AC/DC	-	100 mA	3 W	IP67	2 m	10 mm	Red
CSG-223-5-EX*	Reed NO	2 wires	5 ÷ 30 V AC/DC	-	100 mA	3 W	IP67	5 m	10 mm	Red
CSG-233-2-EX	Reed NO	3 wires	10 ÷ 30 V AC/DC	PNP	500 mA	10 W	IP67	2 m	10 mm	Yellow
CSG-233-5-EX	Reed NO	3 wires	10 ÷ 30 V AC/DC	PNP	500 mA	10 W	IP67	5 m	10 mm	Yellow
CSG-324-2-EX*	Magnetoresistive NO	2 wires	10 ÷ 28 V DC	-	50 mA	1,5 W	IP67	2 m	2,3 mm	Red
CSG-324-5-EX*	Magnetoresistive NO	2 wires	10 ÷ 28 V DC	-	50 mA	1,5 W	IP67	5 m	2,3 mm	Red
CSG-334-2-EX	Magnetoresistive NO	3 wires	10 ÷ 28 V DC	PNP	200 mA	5,5 W	IP67	2 m	2,3 mm	Yellow
CSG-334-5-EX	Magnetoresistive NO	3 wires	10 ÷ 28 V DC	PNP	200 mA	5,5 W	IP67	5 m	2,3 mm	Yellow
CSG-534-2-EX	Magnetoresistive NO	3 wires	10 ÷ 28 V DC	NPN	200 mA	5,5 W	IP67	2 m	2,3 mm	Red
CSG-534-5-EX	Magnetoresistive NO	3 wires	10 ÷ 28 V DC	NPN	200 mA	5,5 W	IP67	5 m	2,3 mm	Red
CSG-734-2-EX	Magnetoresistive NC	3 wires	10 ÷ 28 V DC	NPN	200 mA	5,5 W	IP67	2 m	2,3 mm	Red
CSG-734-5-EX	Magnetoresistive NC	3 wires	10 ÷ 28 V DC	NPN	200 mA	5,5 W	IP67	5 m	2,3 mm	Red
CSG-634-2-EX	Magnetoresistive NC	3 wires	10 ÷ 28 V DC	PNP	200 mA	5,5 W	IP67	2 m	2,3 mm	Yellow
CSG-634-5-EX	Magnetoresistive NC	3 wires	10 ÷ 28 V DC	PNP	200 mA	5,5 W	IP67	5 m	2,3 mm	Yellow

*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.

Magnetic proximity switches, UL certified, T-slot, straight Mod. CSG



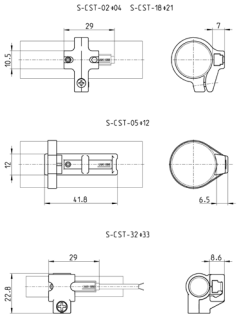


Mod.	Operation	Connection	Voltage	Output	Max. current	Max Load	Protection	L	S	LED colour
CSG-223-2-UL*	Reed	2 wires	5 ÷ 30 V AC/DC	-	60 mA	1,8 W	IP67	2 m	10 mm	Red
CSG-223-5-UL*	Reed	2 wires	5 ÷ 30 V AC/DC	-	60 mA	1,8 W	IP67	5 m	10 mm	Red
CSG-223-10-UL	Reed	2 wires	5 ÷ 30 V AC/DC	-	60 mA	1,8 W	IP67	10 m	10 mm	Red
CSG-233-2-UL	Reed	3 wires	10 ÷ 30 V AC/DC	PNP	100 mA	3 W	IP67	2 m	10 mm	Yellow
CSG-233-5-UL	Reed	3 wires	10 ÷ 30 V AC/DC	PNP	100 mA	3 W	IP67	5 m	10 mm	Yellow
CSG-233-10-UL	Reed	3 wires	10 ÷ 30 V AC/DC	PNP	100 mA	3 W	IP67	5 m	10 mm	Yellow
CSG-324-2-UL*	Magnetoresistive	2 wires	10 ÷ 28 V DC	-	40 mA	1,2 W	IP67	2 m	2,3 mm	Red
CSG-324-5-UL*	Magnetoresistive	2 wires	10 ÷ 28 V DC	-	40 mA	1,2 W	IP67	5 m	2,3 mm	Red
CSG-334-2-UL	Magnetoresistive	3 wires	10 ÷ 28 V DC	PNP	100 mA	3 W	IP67	2 m	2,3 mm	Yellow
CSG-334-5-UL	Magnetoresistive	3 wires	10 ÷ 28 V DC	PNP	100 mA	3 W	IP67	5 m	2,3 mm	Yellow
CSG-534-2-UL	Magnetoresistive	3 wires	10 ÷ 28 V DC	NPN	100 mA	3 W	IP67	2 m	2,3 mm	Red
CSG-534-5-UL	Magnetoresistive	3 wires	10 ÷ 28 V DC	NPN	100 mA	3 W	IP67	5 m	2,3 mm	Red

*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.

Adapters for Series CST-CSG sensors





Mod.	Cylinders Series	Ø
S-CST-02	23, 24, 25	16
S-CST-03	23, 24, 25	20
S-CST-04	23, 24, 25	25
S-CST-18	23, 24, 25	32
S-CST-32	24	10
S-CST-33	24	12

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

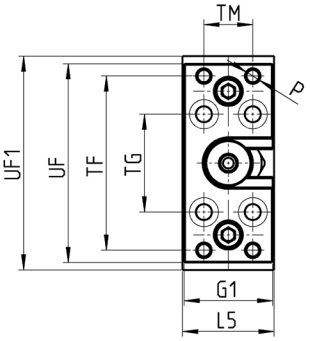
Guides Mod. 45NUT for cylinders Series 16, 24, 25

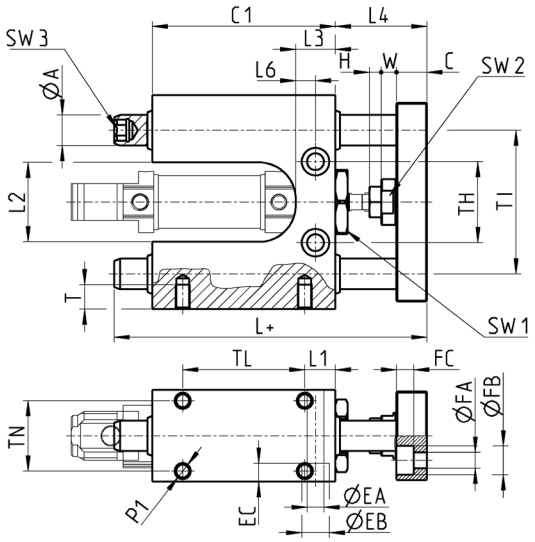


Supplied with:
1x fixing nut

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

Cylinders Ø12 and Ø16 use the same guides.





+ = add the stroke

Ø	TF	TG	TH	TI	TM	TL	TN	UF1	UF	G1	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	16	40	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	16	40	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

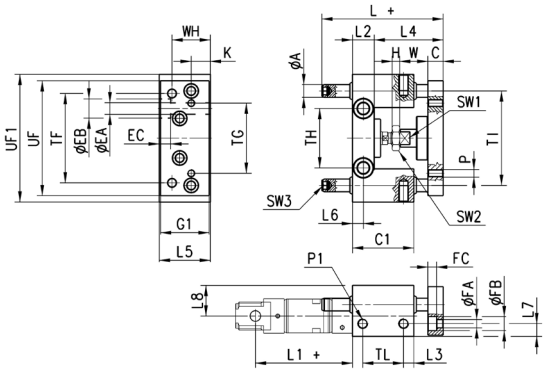
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Guides Mod. 45NUT for cylinders Series 24, 25



Supplied with:
1x fixing nut

Suitable for cylinders Series 24 and 25 DIN/ISO 6432, Ø20 and 25.
These guides do not need lubrication.
For applicable loads see graph 1.



+ = add the stroke

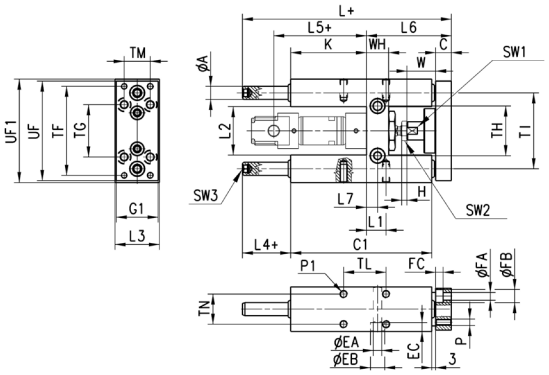
Ø	TF	TG	TH	TI	TL	UFI	UF	G1	øA	WH	C1	H	W	C	K	L	L1	L2	L3	L4	L5	L6	L7	L8	P	P1	øEA	øEB	EC	øFA	øFB	FC	SW1	SW2
20	70	55	46,5	74	32	100	90	38	10	30	48	4	22	12	15	77	71	17	8	48+2	40	8,5	10	24	M6	M8	9	15	9	6,5	11	6,8	13	13
25	70	55	46,5	74	32	100	90	38	10	30	48	6	22	12	15	77	76	17	8	48+2	40	8,5	10	24	M6	M8	9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

Guides Mod. 45NHT for cylinders Series 24, 25



Supplied with:
1x fixing nut

Suitable for cylinders Series 24 and 25 DIN/ISO 6432, Ø20 and 25.
These guides do not need lubrication.
For applicable loads see graph 3.



+ = add the stroke

Ø	TF	TG	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	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

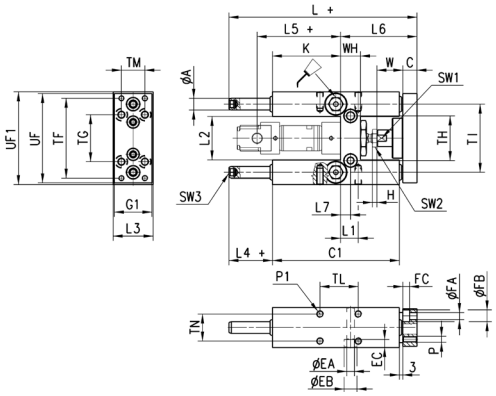
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Guides Mod. 45NHB for cylinders Series 24, 25



Supplied with:
1x fixing nut

Suitable for cylinders Series 24 and 25 DIN/ISO 6432, Ø20 and 25.
To lubricate these guides, use the special lubricator.
For applicable loads see graph 2.



+ = add the stroke

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	ØEA	ØEB	EC	ØFA	ØFB	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

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