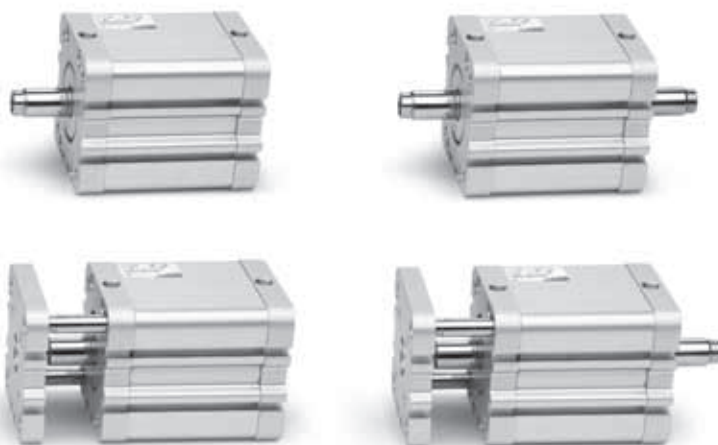


# Compact magnetic cylinders Series 32

Single and double-acting, non-rotating  
 $\varnothing$  20, 25, 32, 40, 50, 63, 80, 100 mm



- » In compliance with ISO 21287
- » Compact design
- » Wide range of models available in different diameters

Series 32 cylinders, thanks to their compactness, are suitable for installation in confined spaces. Being in compliance with the ISO 21287 Standard, the cylinders Series 32 have the advantage that they can be used in conjunction with mountings/accessories suitable for other standard cylinders DIN/ISO 6431 / VDMA 24562 (Series 60/61).

## GENERAL DATA

<b>Construction</b>	compact profile
<b>Operation</b>	single and double acting, magnetic
<b>Materials</b>	anodized AL body and end-blocks - rolled stainless steel AISI 303 rod anodized AL piston - rod seal, end-block OR and piston seal in PU high temperatures: rod seal, OR end-block and piston in FKM (140°)
<b>Mounting</b>	with threaded holes on the end blocks flange - feet - trunnion
<b>Stroke min and max (1)</b>	Series 32F, 32M, 32R $\varnothing$ 20-25 = 5-300 mm Series 32F, 32M, 32R $\varnothing$ 32-40-50-63 = 5-400 mm Series 32F, 32M, 32R $\varnothing$ 80-100 = 5-500 mm
<b>Operating temperature</b>	0°C ÷ 80°C (with dry air -20°C)
<b>Operating pressure</b>	1 ÷ 10 bar (double-acting) 2 ÷ 10 bar (single-acting)
<b>Fluid</b>	clean air without lubrication. If lubricated air is used it is recommended to use oil ISOVG32. Once applied the lubrication should never be interrupted.
<b>Operation speed</b>	10 ÷ 1000mm/sec. (without load)

(1) the minimum stroke for the use of the sensors is 10 mm.

### STANDARD STROKES FOR CYLINDERS SERIES 32

✕ = Non-rotating    ● = Double-acting, male/female rod thread;  
 ■ = Single-acting, front/rear spring, male/female rod thread.

STANDARD STROKES										
Ø	5	10	15	20	25	30	40	50	60	80
20	✕●■	✕●■	✕●■	✕●■	✕●■	✕●	✕●	✕●		
25	✕●■	✕●■	✕●■	✕●■	✕●■	✕●	✕●	✕●		
32	✕●■	✕●■	✕●■	✕●■	✕●■	✕●	✕●	✕●	✕●	✕●
40	✕●■	✕●■	✕●■	✕●■	✕●■	✕●	✕●	✕●	✕●	✕●
50		✕●■	✕●■	✕●■	✕●■	✕●	✕●	✕●	✕●	✕●
63		✕●■	✕●■	✕●■	✕●■	✕●	✕●	✕●	✕●	✕●
80		✕●■	✕●■	✕●■	✕●■	✕●	✕●	✕●	✕●	✕●
100		✕●■	✕●■	✕●■	✕●■	✕●	✕●	✕●	✕●	✕●

### CODING EXAMPLE

<b>32</b>	<b>M</b>	<b>2</b>	<b>A</b>	<b>032</b>	<b>A</b>	<b>050</b>	
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<b>32</b>	SERIES	
<b>M</b>	VERSION M = male rod thread F = female rod thread R = antirotation with flange (not for single-acting version)	
<b>2</b>	OPERATION 1 = single-acting, front spring 2 = double-acting 3 = double-acting, through-rod 4 = single-acting, rear spring	PNEUMATIC SYMBOLS CS06 CD08 CD12 CS08
<b>A</b>	MATERIALS A = anodized aluminium body, end blocks and piston, PU seals (rod, end-blocks OR and piston)	
<b>032</b>	BORES 020 = 20 mm - 025 = 25 mm - 032 = 32 mm - 040 = 40 mm 050 = 50 mm - 063 = 63 mm - 080 = 80 mm - 100 = 100 mm	
<b>A</b>	CONSTRUCTION A = standard	
<b>050</b>	STROKE (see the table)	
	= standard S = special V = FKM rod seal W = high temperatures (double-acting, non-magnetic with FKM seals for high temperatures up to 140°C)	

### PNEUMATIC SYMBOLS

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



**ACCESSORIES FOR CYLINDERS SERIES 32**

 Piston rod socket joint  
Mod. GY

 Piston rod lock nut  
Mod. U


Clevis pin Mod. S


 Rear trunnion ball-joint  
Mod. R

 Coupling piece  
Mod. GKF


Swivel ball joint Mod. GA


 90° male trunnion  
Mod. ZC

 Swivel combination  
Mod. C+L+S

 Front and rear flange  
Mod. D-E

 Self aligning rod  
Mod. GK

 90° swivel combination  
for trunnion Mod. I


Foot mount Mod. B


 Front female trunnion  
Mod. H and C-H

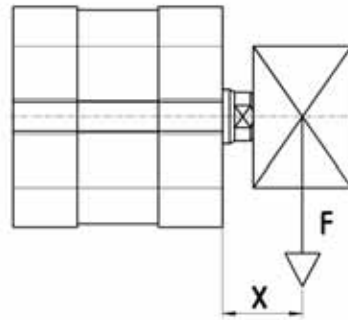
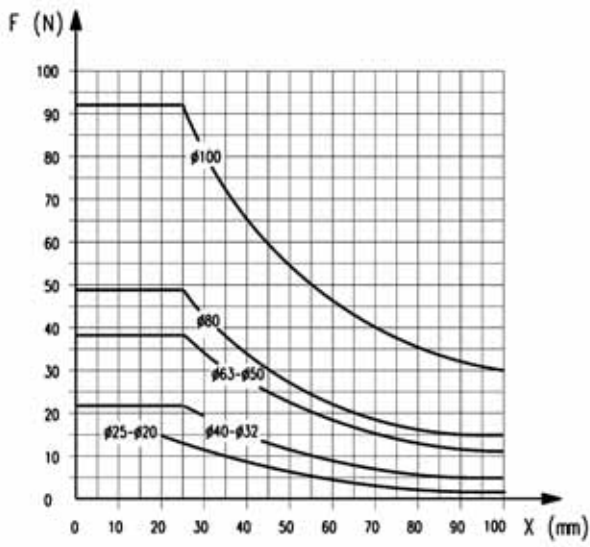
 Rear female trunnion  
Mod. C and C-H


Rod fork end Mod. G


 Rear trunnion male Mod.  
L

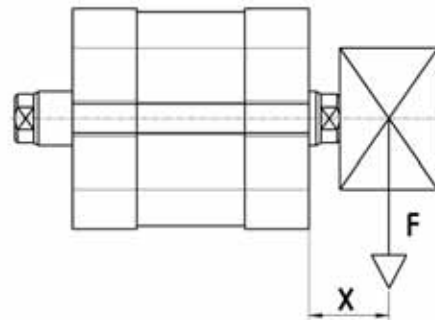
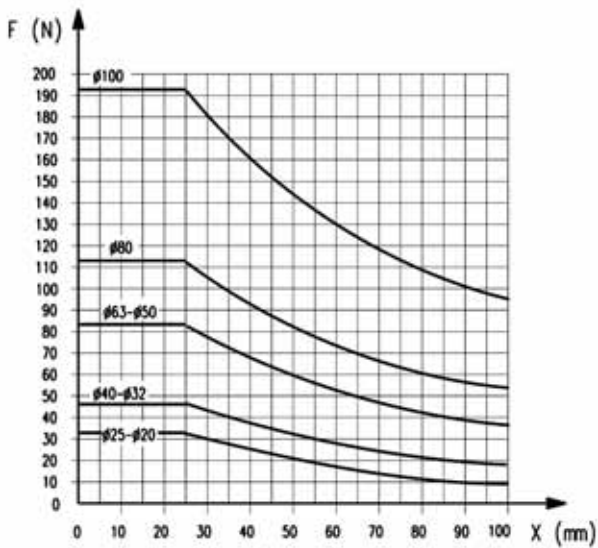

All accessories are supplied separately.

APPLICABLE LOADS



Standard.  
Transversal load ( F ) dependant on stroke ( X )

APPLICABLE LOADS

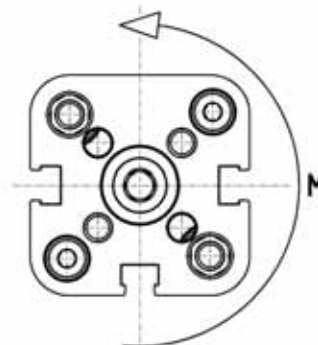
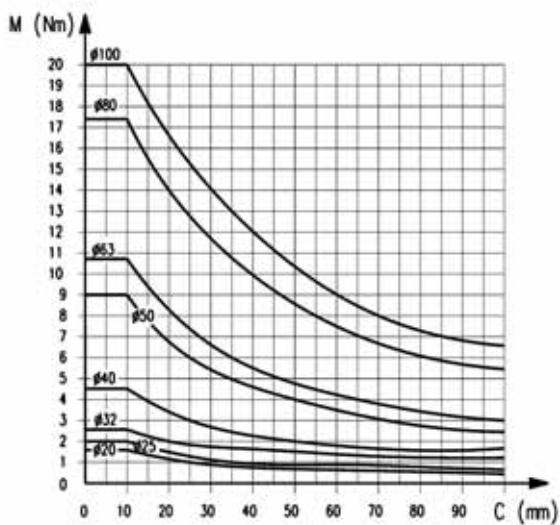


Through-rod.  
Transversal load ( F ) dependant on stroke ( X )

## APPLICABLE LOADS

1

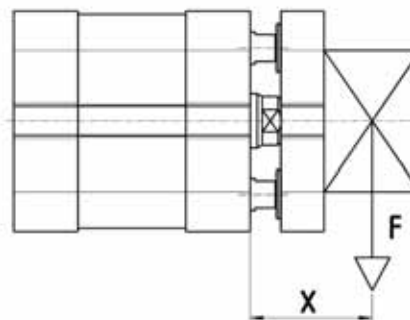
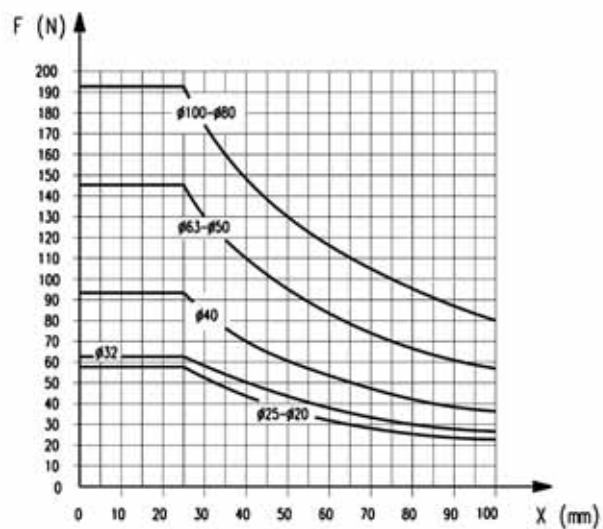
MOVEMENT



It is possible to use longer strokes as indicated in the general data (excluding radial loads and torque moments). When imposing radial loads on the cylinder it is important to respect the maximum stroke of the centre of gravity. In the presence of torque moments, respect the maximum stroke as shown in the diagrams.

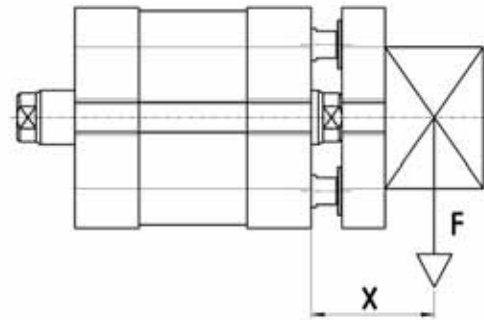
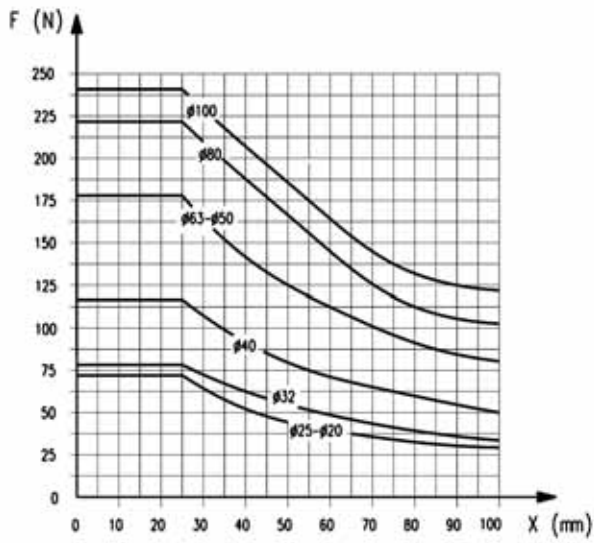
Torque moment (M) dependant on stroke (C).

## APPLICABLE LOADS



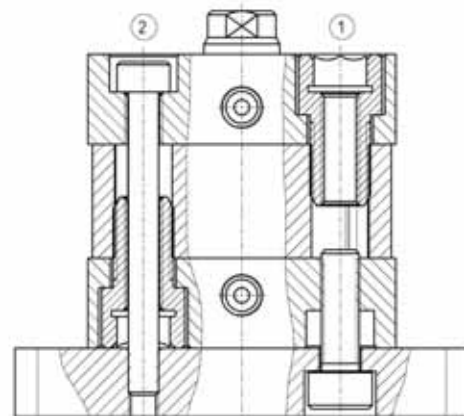
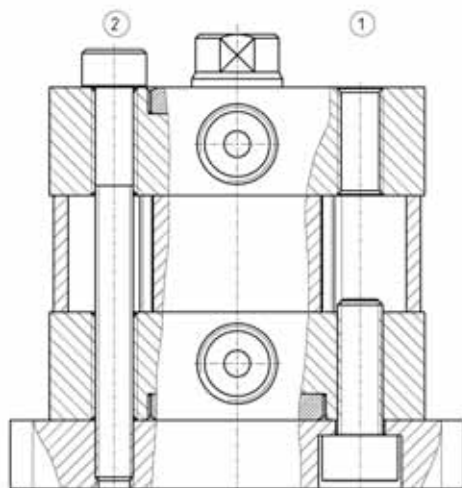
Anti-rotation.  
Transversal load (F) dependant on stroke (X).

APPLICABLE LOADS



Anti-rotation through-rod.  
Transversal load (F) dependant on stroke (X).

MOUNTING EXAMPLE



Mounting example for mounting cylinders Ø 32; 40; 50; 63; 80; 100.  
1 = Rear mounting  
2 = Through mounting

N.B. For through mounting with screws through the cylinder it is recommended to use non-magnetic screws.

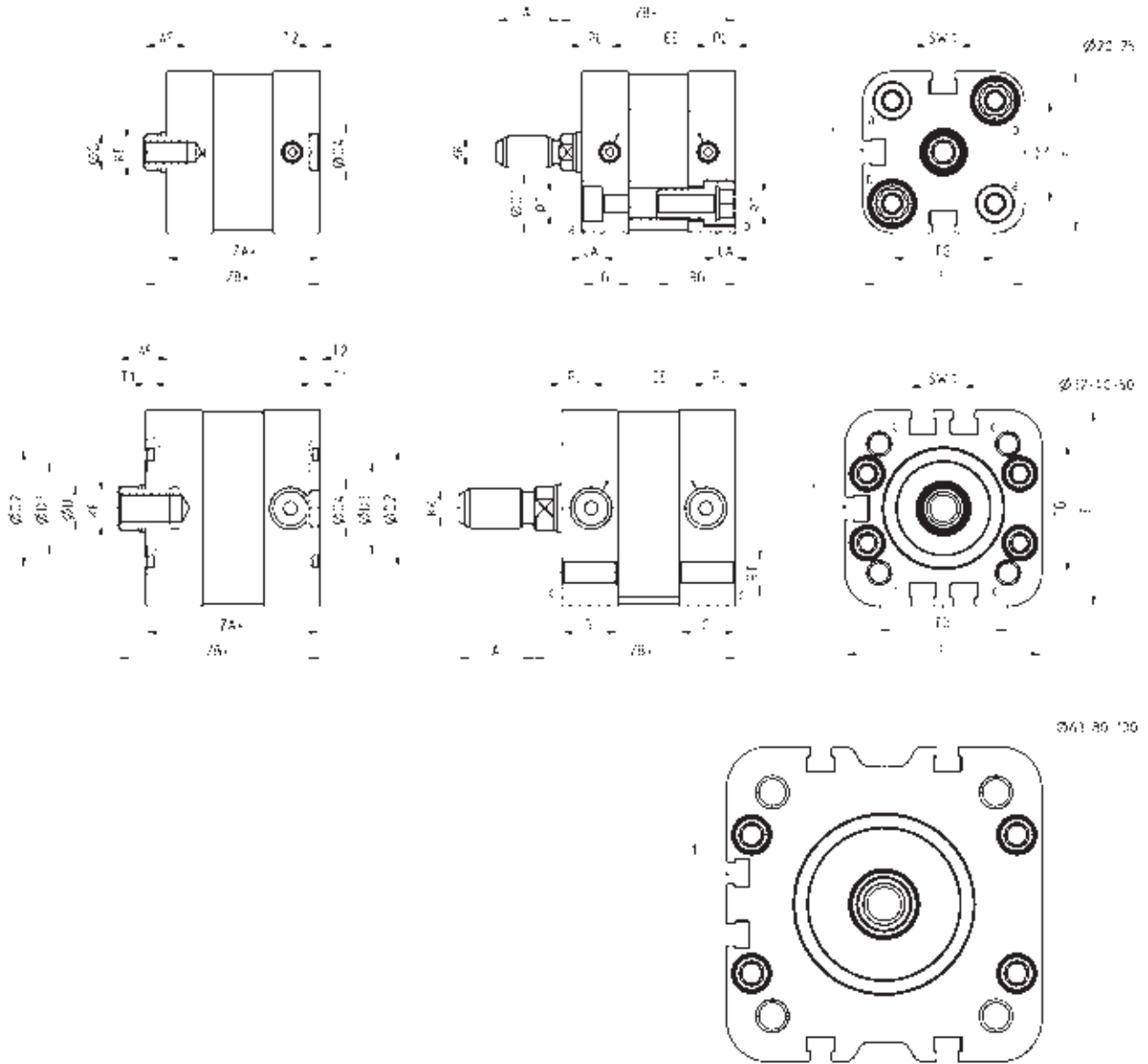
Mounting example for mounting cylinders Ø 20 ÷ 25.  
1 = Rear mounting  
2 = Through mounting

N.B. For through mounting with screws through the cylinder it is recommended to use non-magnetic screws.

## Compact magnetic cylinders Mod. 32F and 32M



+ = add the stroke  
1 = groove for sensor



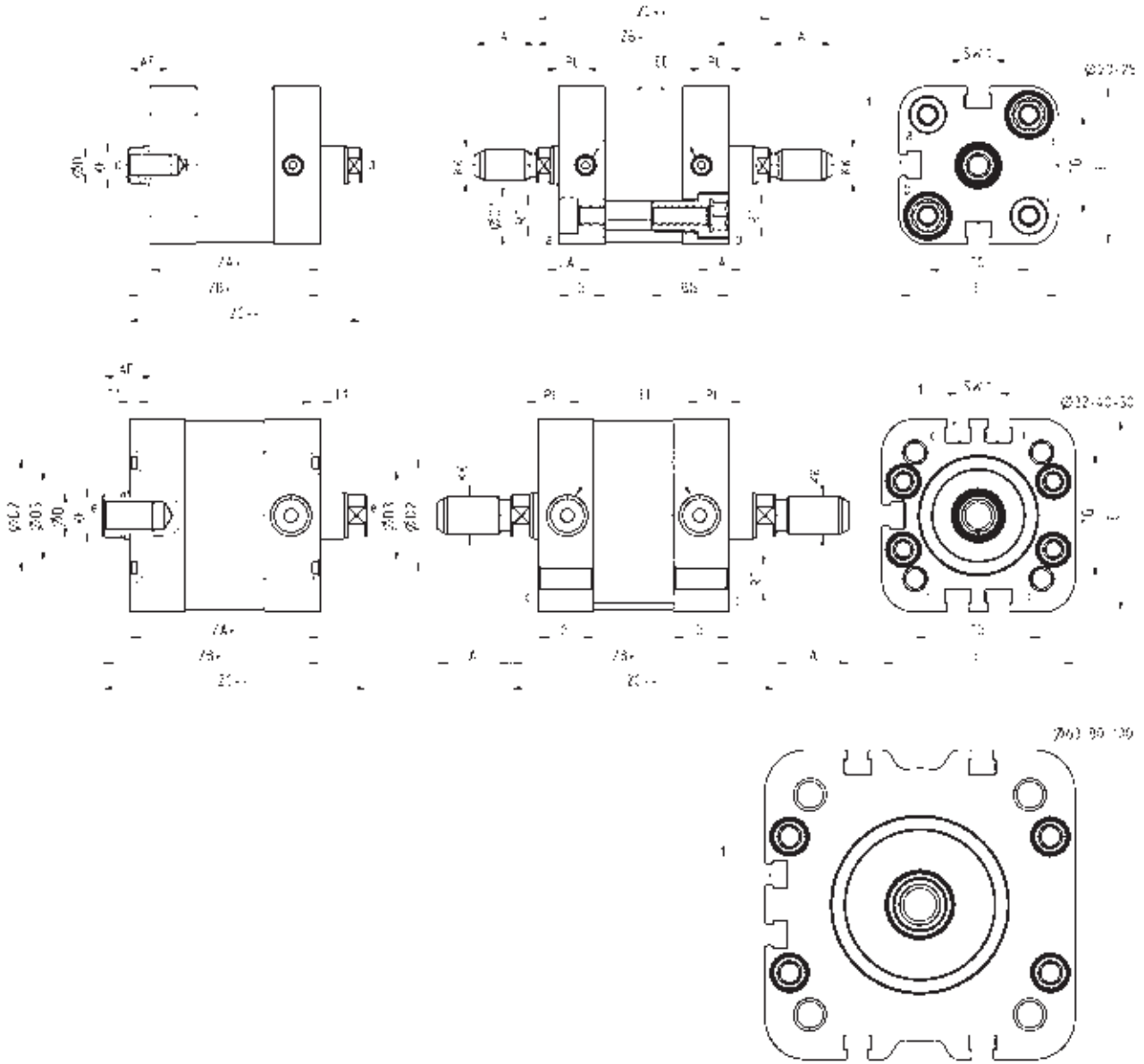
## DIMENSIONS

Ø	A	AF	BG	G	ØD	D1	ØD2	ØD3	ØD4	E	EE	KF	KK	LA	PL	RT	SW1	T1	T2	TG	ZA	ZB
20	16	11	20	10,9	10	9	-	-	9	35,8	M5	M6	M8X1,25	5	6,5	M5	8	-	2,5	22	36,8	42,5
25	16	11	20	11,9	10	9	-	-	9	40,7	M5	M6	M8X1,25	5	7	M5	8	-	2,5	26	38,8	44,5
32	19	13	-	14,3	12	-	30	24	9	49,6	G1/8	M8	M10X1,25	-	7,6	M6	10	2	2,5	32,5	44	51
40	19	13	-	14,3	12	-	35	29	9	57	G1/8	M8	M10X1,25	-	7,6	M6	10	2	2,5	38	45	52
50	22	16	-	14,3	16	-	40	34	12	69,6	G1/8	M10	M12X1,25	-	7,6	M8	13	2	3	46,5	45	53
63	22	16	-	14	16	-	45	39	12	79,6	G1/8	M10	M12X1,25	-	7,6	M8	13	2	3	56,5	49	57
80	28	20	-	14,8	20	-	45	39	12	95,6	G1/8	M12	M16X1,5	-	7,7	M10	17	2	3	72	54	63,5
100	28	20	-	17,8	25	-	55	49	12	115,6	G1/8	M12	M16X1,5	-	8	M10	22	2	3	89	66,8	76,5

Compact magnetic cylinders Mod. 32F3 and 32M3



+ = add the stroke once  
 ++ = add the stroke twice  
 1 = groove for sensor



DIMENSIONS

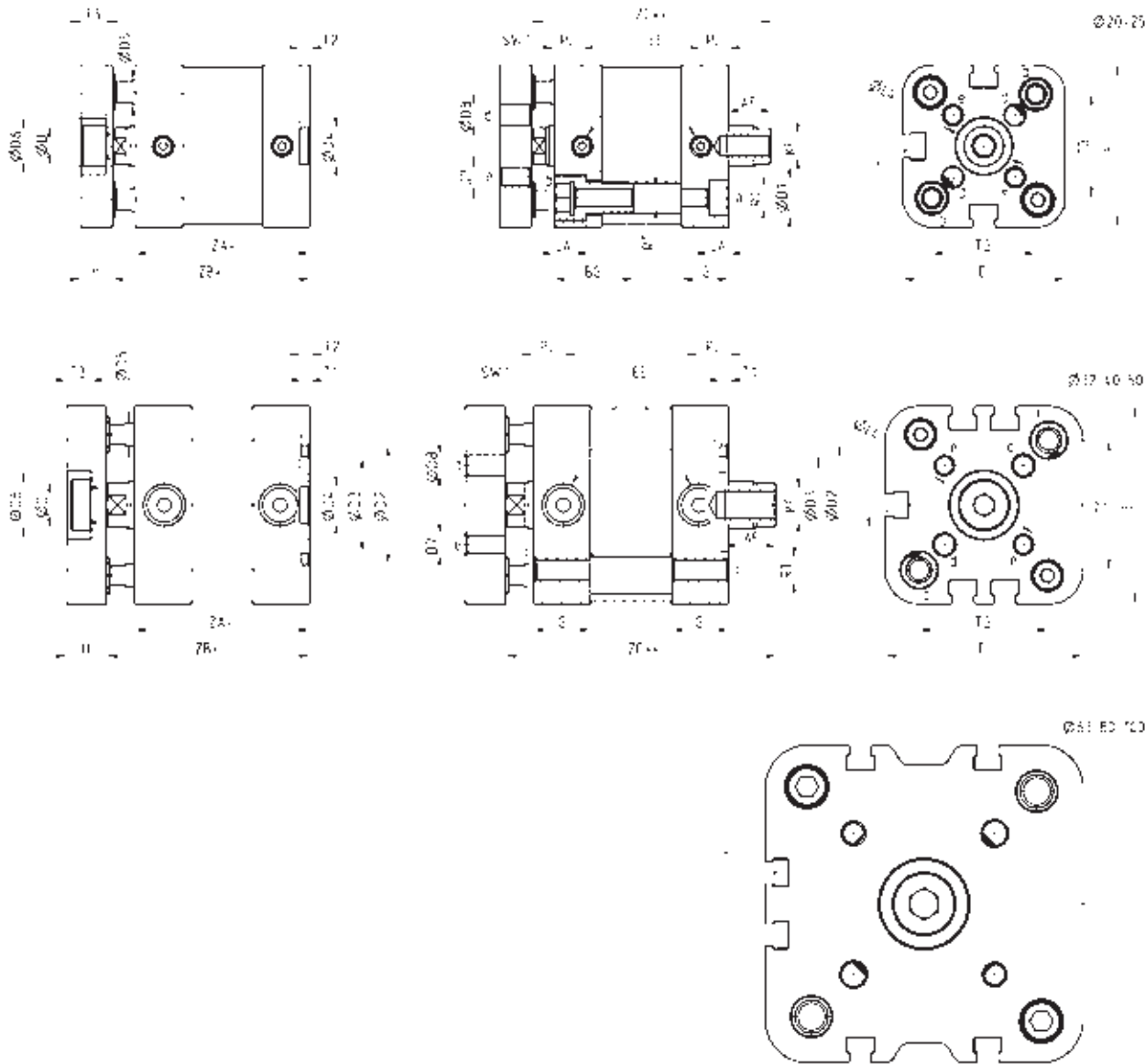
Ø	A	AF	BG	G	ØD	ØD1	ØD2	ØD3	E	EE	KF	KK	LA	PL	RT	SW1	T1	TG	ZA	ZB	ZC
20	16	11	20	10,9	10	9	-	-	35,8	M5	M6	M8X1,25	5	6,5	M5	8	-	22	36,8	42,5	48,2
25	16	11	20	11,9	10	9	-	-	40,7	M5	M6	M8X1,25	5	7	M5	8	-	26	38,8	44,5	50,2
32	19	13	-	14,3	12	-	30	24	49,6	G1/8	M8	M10X1,25	-	7,6	M6	10	2	32,5	44	51	58
40	19	13	-	14,3	12	-	35	29	57	G1/8	M8	M10X1,25	-	7,6	M6	10	2	38	45	52	59
50	22	16	-	14,3	16	-	40	34	69,6	G1/8	M10	M12X1,25	-	7,6	M8	13	2	46,5	45	53	61
63	22	16	-	14	16	-	45	39	79,6	G1/8	M10	M12X1,25	-	7,6	M8	13	2	56,5	49	57	65
80	28	20	-	14,8	20	-	45	39	95,6	G1/8	M12	M16X1,5	-	7,7	M10	17	2	72	54	63,5	73
100	28	20	-	17,8	25	-	55	49	115,6	G1/8	M12	M16X1,5	-	8	M10	22	2	89	66,8	76,5	86,2



## Compact magnetic cylinders Mod. 32R



+ = add the stroke once  
 ++ = add the stroke twice  
 1 = groove for sensor



## DIMENSIONS

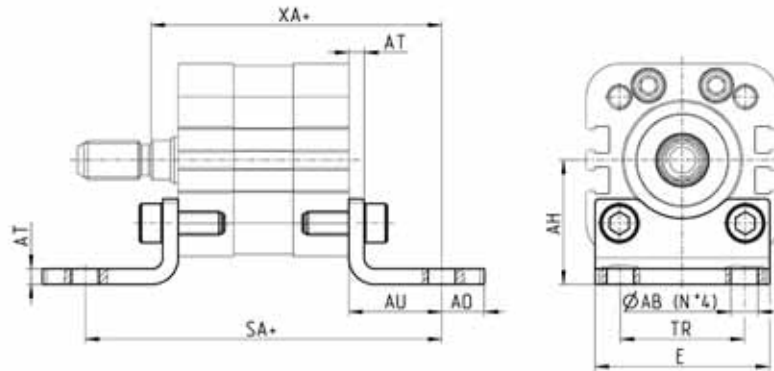
Ø	AF	BG	G	ØD	ØD1	ØD2	ØD3	ØD4	ØD5	ØD6	D7	ØD8	E	EE	H	KF	LA	ØL4	PL	RT	SW1	T1	T2	T3	TG	ZA	ZB	ZC
20	11	20	10,9	10	9	-	-	9	6	-	M4	4	35,8	M5	8	M6	5	17	6,5	M5	8	-	2,5	-	22	36,8	42,5	48,2
25	11	20	11,9	10	9	-	-	9	6	14	M5	5	40,7	M5	8	M6	5	22	7	M5	8	-	2,5	6,5	26	38,8	44,5	50,2
32	13	-	14,3	12	-	30	24	9	6	17	M5	5	49,6	G1/8	10	M8	-	28	7,6	M6	10	2	2,5	6	32,5	44	51	58
40	13	-	14,3	12	-	35	29	9	6	17	M5	5	57	G1/8	10	M8	-	33	7,6	M6	10	2	2,5	6	38	45	52	59
50	16	-	14,3	16	-	40	34	12	10	22	M6	6	69,6	G1/8	12	M10	-	42	7,6	M8	13	2	3	7	46,5	45	53	61
63	16	-	14	16	-	45	39	12	10	22	M6	6	79,6	G1/8	12	M10	-	50	7,6	M8	13	2	3	7	56,5	49	57	65
80	20	-	14,8	20	-	45	39	12	12	24	M8	8	95,6	G1/8	14	M12	-	65	7,7	M10	17	2	3	10,5	72	54	63,5	73
100	20	-	18	25	-	55	49	12	12	24	M10	10	115,6	G1/8	14	M12	-	80	8	M10	22	2	3	10,5	89	66,8	77,5	86,2

Foot mount Mod. B

Material: zinc-plated steel.



Supplied with:  
2x feet  
4x screws  
+ = add the stroke



DIMENSIONS

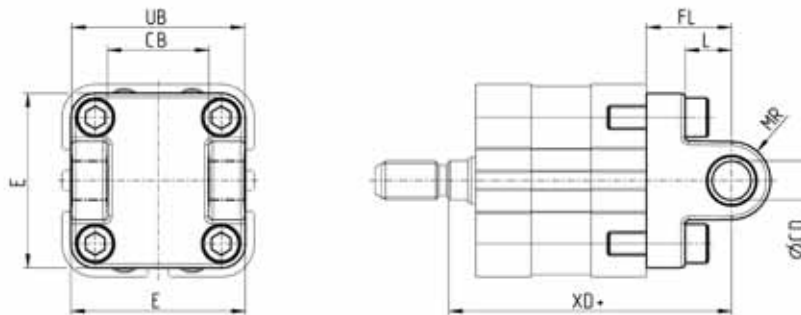
Mod.	Ø	ØAB	AH	AO	AU	AT	E	TR	SA	XA
<b>B-32-20</b>	20	6,5	27	9	16	4	35	22	68,8	58,5
<b>B-31-25</b>	25	6,5	29	9	16	4	39	26	70,8	60,5
<b>B-41-32</b>	32	7	32	11	24	4	45	32	92	75
<b>B-41-40</b>	40	10	36	15	28	4	53,5	36	101	80
<b>B-41-50</b>	50	10	45	15	32	4	62,5	45	109	85
<b>B-41-63</b>	63	10	50	15	32	5	73	50	113	89
<b>B-41-80</b>	80	12	63	20	41	6	92	63	136	104,5
<b>B-41-100</b>	100	14,5	71	25	41	6	108,5	71	148,8	117,5

Rear female trunnion Mod. C and C-H

Material: Aluminium.



Supplied with:  
1x female trunnion  
4x screws  
+ = add the stroke

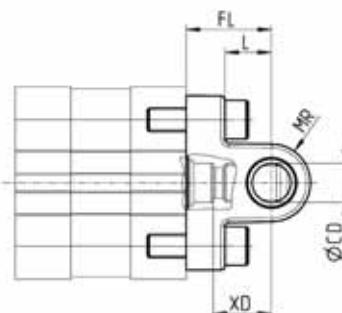
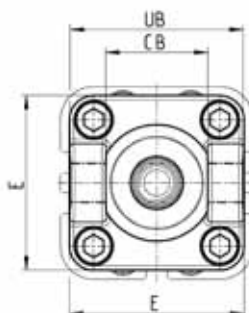


DIMENSIONS

Mod.	Ø	ØCD	E	CB	UB	L	FL	MR	XD
<b>C-41-32</b>	32	10	45	26	45	12	22	10	73
<b>C-41-40</b>	40	12	53,5	28	52	15	25	12	77
<b>C-41-50</b>	50	12	62,5	32	60	15	27	13	80
<b>C-H-41-63</b>	63	16	73	40	70	20	32	17	89
<b>C-H-41-80</b>	80	16	92	50	90	24	36	17	99,5
<b>C-H-41-100</b>	100	20	108,5	60	110	29	41	21	117,5

**Front female trunnion Mod. H and C-H**

Material: Aluminium.


 Supplied with:  
 1x female trunnion  
 4x screws

**DIMENSIONS**

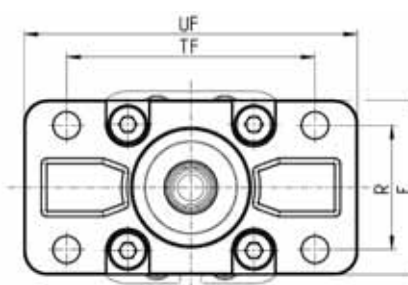
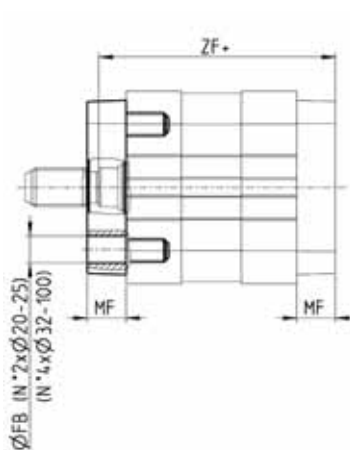
Mod.	Ø	ØCD	E	CB	UB	L	FL	MR	XD
<b>H-41-32</b>	32	10	45	26	45	12	22	10	15
<b>H-41-40</b>	40	12	53,5	28	52	15	25	12	18
<b>H-41-50</b>	50	12	62,5	32	60	15	27	13	19
<b>H-60-63</b>	63	16	73	40	70	20	32	17	24
<b>C-H-41-80</b>	80	16	92	50	90	24	36	17	26,5
<b>C-H-41-100</b>	100	20	108,5	60	110	29	41	21	31,3

**Front and rear flange Mod. D-E**

Material: zinc-plated steel for Ø 20 - Ø 25; Aluminium for Ø 32 ÷ Ø 100.


 Supplied with:  
 1x flange  
 4x screws

+ = add the stroke


**DIMENSIONS**

Mod.	Ø	ØFB	E	MF	R	TF	UF	ZF
<b>D-E-32-20</b>	20	6,6	36	10	-	55	70	52,5
<b>D-E-32-25</b>	25	6,6	40	10	-	60	76	54,5
<b>D-E-41-32</b>	32	7	45	10	32	64	86	61
<b>D-E-41-40</b>	40	9	52	10	36	72	88	62
<b>D-E-41-50</b>	50	9	63	12	45	90	110	65
<b>D-E-41-63</b>	63	9	73	12	50	100	116	69
<b>D-E-41-80</b>	80	12	95	16	63	126	148	79,5
<b>D-E-41-100</b>	100	14	115	16	75	150	176	92,5

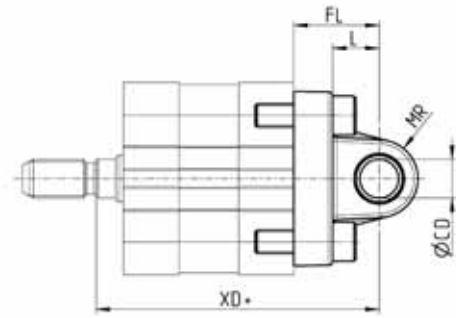
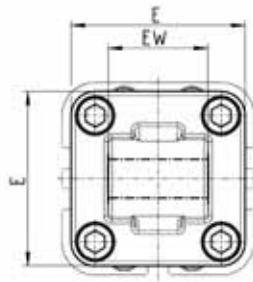
Rear trunnion male Mod. L

Material: Aluminium.



Supplied with:  
1x male trunnion  
4x screws

+ = add the stroke



DIMENSIONS

Mod.	Ø	ØCD	E	EW	L	FL	MR	XD
L-32-20	20	8	34	16	14	20	8	62,5
L-32-25	25	8	38	16	14	20	8	64,5
L-41-32	32	10	45	26	12	22	10	73
L-41-40	40	12	53,5	28	15	25	13	77
L-41-50	50	12	62,5	32	15	27	13	80
L-41-63	63	16	73	40	20	32	17	89
L-41-80	80	16	92	50	24	36	17	99,5
L-41-100	100	20	108,5	60	29	41	21	117,5

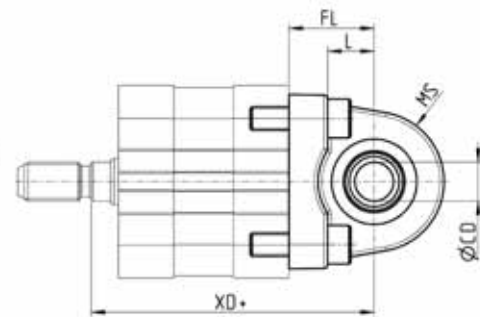
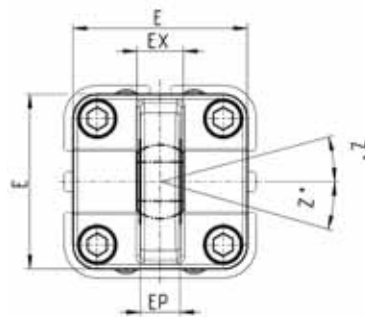
Rear trunnion ball-joint Mod. R

Material: Aluminium.



Supplied with:  
1x ball joint  
4x screws

+ = add the stroke



DIMENSIONS

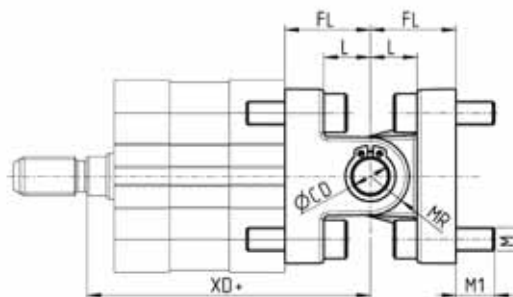
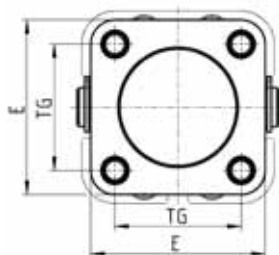
Mod.	Ø	ØCD	E	EX	EP	L	FL	MS	XD	Z°
R-41-32	32	10	45	14	10,5	12	22	18	73	4
R-41-40	40	12	53,5	16	12	15	25	18	77	4
R-41-50	50	12	62,5	16	12	15	27	21	80	4
R-41-63	63	16	73	21	15	20	32	23	89	5
R-41-80	80	16	92	21	15	24	36	36	99,5	5
R-41-100	100	20	108,5	25	18	29	41	41	117,5	5

## Accessory combination Mod. C+L+S

Material: Aluminium.



+ = add the stroke



## DIMENSIONS

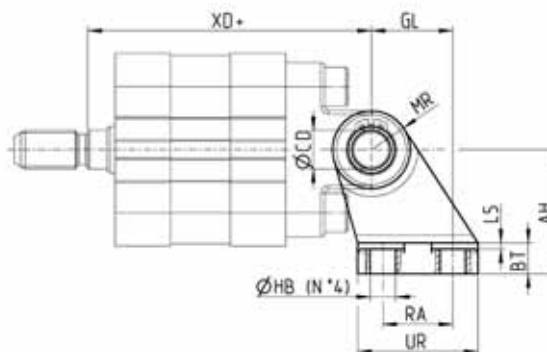
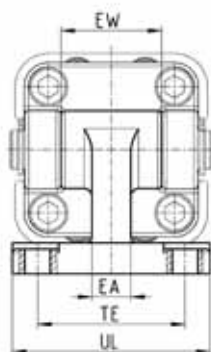
Mod.	Ø	ø <sub>CD</sub>	E	L	FL	M	M1	MR	TG	XD
<b>C+L+S</b>	32	10	45	12	22	M6	10	10	32,5	73
<b>C+L+S</b>	40	12	53,5	15	25	M6	10	12	38	77
<b>C+L+S</b>	50	12	62,5	15	27	M8	13	13	46,5	80
<b>C+L+S</b>	63	16	73	20	32	M8	13	17	56,5	89
<b>C+L+S</b>	80	16	92	24	36	M10	16	17	72	99,5
<b>C+L+S</b>	100	20	108,5	29	41	M10	16	21	89	117,5

## 90° male trunnion Mod. ZC

Material: Aluminium.


 Supplied with:  
1x male support

+ = add the stroke



## DIMENSIONS

Mod.	Ø	AH	BT	ø <sub>CD</sub>	EA	EW	GL	ø <sub>HB</sub>	L5	MR	RA	UL	UR	TE	XD
<b>ZC-32</b>	32	32	8	10	10	26	21	6,6	1,6	10	18	51	31	38	73
<b>ZC-40</b>	40	36	10	12	15	28	24	6,6	1,6	11	22	54	35	41	77
<b>ZC-50</b>	50	45	12	12	16	32	33	9	1,6	13	30	65	45	50	80
<b>ZC-63</b>	63	50	14	16	16	40	37	9	1,6	15	35	67	50	52	89
<b>ZC-80</b>	80	63	14	16	20	50	47	11	2,5	15	40	86	60	66	99,5
<b>ZC-100</b>	100	71	17	20	20	60	55	11	2,5	19	50	96	70	76	117,5

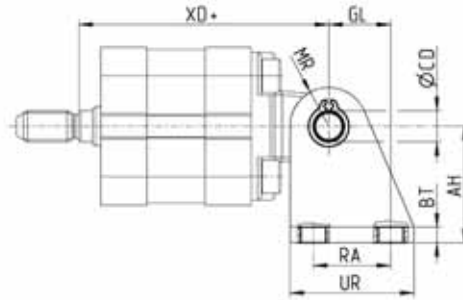
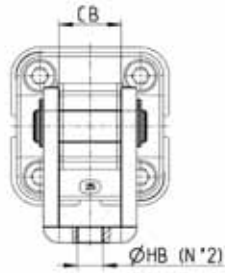
90° swivel combination for trunnion Mod. I

Material: zinc-plated steel.



Supplied with:  
1x female support  
2x seeger  
1x clevis pin

+ = add the stroke



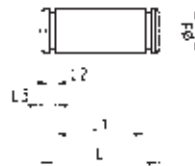
DIMENSIONS

Mod.	Ø	AT	BT	ØCD	CB	GL	ØHB	MR	RA	UR	XD
I-20-25	20	30	4	8	16,1	16	6,5	10	20	32	62,5
I-20-25	25	30	4	8	16,1	16	6,5	10	20	32	64,5

Clevis pin Mod. S



Supplied with:  
1x clevis pin in stainless steel  
2x Seeger in steel



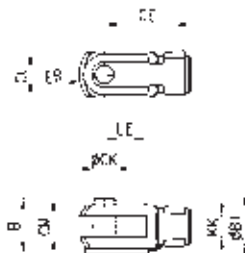
DIMENSIONS

Mod.	Ø	D	L	L1	L2	L3
S-32	32	10	52	46	1,1	3
S-40	40	12	59	53	1,1	3
S-50	50	12	67	61	1,1	3
S-63	63	16	77	71	1,1	3
S-80	80	16	97	91	1,1	3
S-100	100	20	121	111	1,3	5

**Rod fork end Mod. G**

ISO 8140

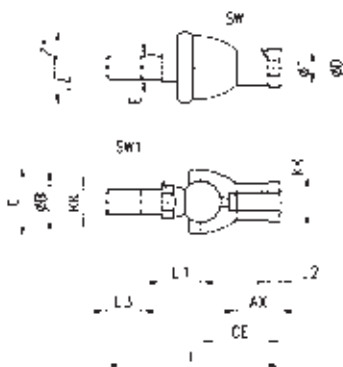
Material: zinc-plated steel.


**DIMENSIONS**

Mod.	Ø	ø <sub>CK</sub>	LE	CM	CL	ER	CE	KK	B	ø <sub>B1</sub>
<b>G-20</b>	20-25	8	16	8	16	10	32	M8X1,25	22	14
<b>G-25-32</b>	32-40	10	20	10	20	12	40	M10x1,25	26	18
<b>G-40</b>	50-63	12	24	12	24	14	48	M12x1,25	32	20
<b>G-50-63</b>	80-100	16	32	16	32	19	64	M16x1,5	40	26

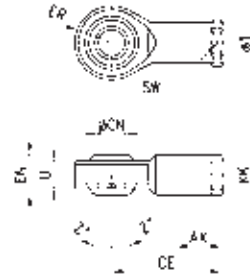
**Piston rod socket joint Mod. GY**

Material: zama and zinc-plated steel.


**DIMENSIONS**

Mod.	Ø	KK	L	CE	L2	AX	SW	SW1	L1	L3	ø <sub>T</sub>	ø <sub>D</sub>	E	ø <sub>B</sub>	ø <sub>C</sub>	Z
<b>GY-20</b>	20-25	M8X1,25	65	32	5	16	14	10	16	12	12,5	13	6	10	20	15
<b>GY-32</b>	32-40	M10X1,25	74	35	6,5	18	17	11	19,5	15	15	19	10	14	28	15
<b>GY-40</b>	50-63	M12X1,25	84	40	6,5	20	19	17	21	17	17,5	22	12	19	32	15
<b>GY-50-63</b>	80-100	M16X1,5	112	50	8	27	22	19	27,5	23	22	27	16	22	40	11

### Swivel ball joint Mod. GA

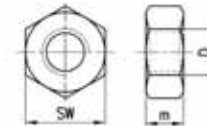


DIMENSIONS											
Mod.	Ø	ø <sub>CN</sub>	U	EN	ER	AX	CE	KK	ø <sub>T</sub>	Z	SW
<b>GA-20</b>	20-25	8	9	12	12	16	36	M8X1,25	12,5	6,5	14
<b>GA-32</b>	32-40	10	10,5	14	14	20	43	M10x1,25	15	6,5	17
<b>GA-40</b>	50-63	12	12	16	16	22	50	M12X1.25	17,5	6,5	19
<b>GA-50-63</b>	80-100	16	15	21	21	28	64	M16x1,5	22	7,5	22

### Piston rod lock nut Mod. U



ISO 4035  
Materials: zinc-plated steel.



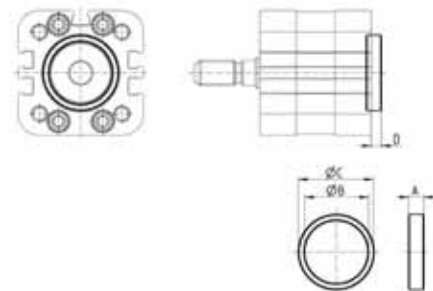
DIMENSIONS				
Mod.	Ø	D	M	SW
<b>U-20</b>	20-25	M8X1,25	5	13
<b>U-25-32</b>	32-40	M10X1,25	6	17
<b>U-40</b>	50-63	M12X1,25	7	19
<b>U-50-63</b>	80-100	M16X1,5	8	24

### Centring sleeve Mod. TR



Supplied with:  
1x anodized AL centring ring

Designed for the centring of both rear and front end caps with brackets Mod. B/D-E/C/C-H/H/L/R, as for the centring of the cylinder while mounting.

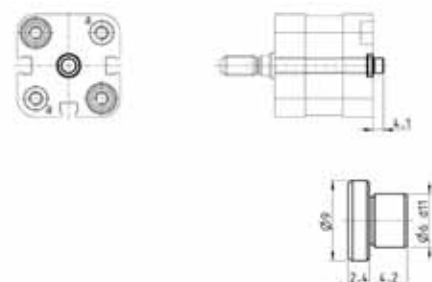


DIMENSIONS					
Mod.	Ø	A	ø <sub>B</sub>	ø <sub>C</sub>	D
<b>TR-32-32</b>	32	6	25	30	4
<b>TR-32-40</b>	40	6	30	35	4
<b>TR-32-50</b>	50	6	35	40	4
<b>TR-32-63</b>	63-80	7	40	45	5
<b>TR-32-100</b>	100	7	50	55	5

### Centring pin Mod. TS-32-20

Material: anodized AL

Designed for the centring of rear end caps with brackets L-32-20 / L-32-25 as for cylinder while mounting, it is also suitable in "a" holes of rear/front end caps of cyl. Ø20-25 or in the central hole of rear end caps of cyl. Ø32-40.



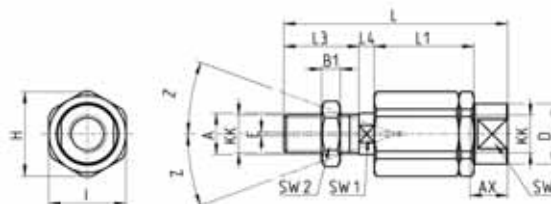
Mod.
<b>TS-32-20</b>




**Self aligning rod Mod. GK**

Only for cylinders with male rod.

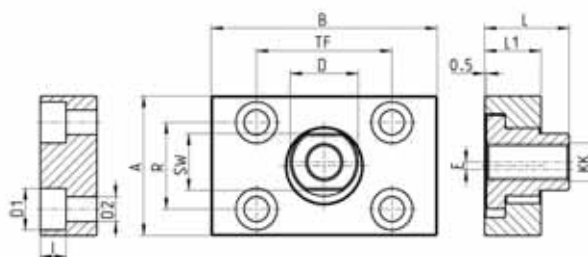
Material: zinc-plated steel.


**DIMENSIONS**

Mod.	Ø	KK	L	L1	L3	L4	ØA	ØD	H	I	SW	SW1	SW2	B1	AX	Z	E
<b>GK-20</b>	20-25	M8x1,25	57	26	21	5	8	12,5	19	17	11	7	13	4	16	4	2
<b>GK-25-32</b>	32-40	M10x1,25	71,5	35	20	7,5	14	22	32	30	19	12	17	5	22	4	2
<b>GK-40</b>	50-63	M12x1,25	75,5	35	24	7,5	14	22	32	30	19	12	19	6	22	4	2
<b>GK-50-63</b>	80-100	M16x1,5	104	53	32	10	22	32	45	41	27	20	24	8	30	3	2


**Coupling piece Mod. GKF**

Material: zinc-plated steel.


**DIMENSIONS**

Mod.	Ø	KK	A	B	R	TF	L	L1	I	ØD	ØD1	ØD2	SW	E
<b>GKF-20</b>	20-25	M8x1,25	30	35	20	25	22,5	10	-	14	5,5	-	13	1,5
<b>GKF-25-32</b>	32-40	M10x1,25	37	60	23	36	22,5	15	6,8	18	11	6,6	15	2
<b>GKF-40</b>	50-63	M12x1,25	56	60	38	42	22,5	15	9	20	15	9	15	2,5
<b>GKF-50-63</b>	80-100	M16x1,5	80	80	58	58	26,5	15	10,5	25	18	11	22	2,5