

# Compact cylinders Series 32 Tandem and multi-position versions

Double-acting, magnetic,  $\varnothing$  25, 40, 63, 100.



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MOVEMENT



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

The extreme compact Tandem version allows to obtain up to 2 times the force of a normal cylinder, while the multi-position version allows to obtain up to three positions with only one cylinder.

The cylinder Series 32 Tandem and multi-position versions are, thanks to their compactness, suitable to be installed within confined spaces. They can be used in conjunction with the same mounting elements of other standard cylinders DIN/ISO 6431/VDMA 24562 (Series 60/61).

## GENERAL DATA

<b>Construction</b>	compact profile
<b>Operation</b>	double-acting, magnetic
<b>Material</b>	body and end-blocks = anodized AL rod = rolled stainless steel AISI 303 piston = anodized AL rod seal, OR end-block and piston seal = PU
<b>Mounting</b>	with threaded holes on the end blocks flange – feet – trunnion
<b>Strokes min. and max. (1)</b>	Series 32F, 32M $\varnothing$ 25 = 5-300 mm (dimension x2)
<b>Multiposition</b>	Series 32F, 32M $\varnothing$ 40 - 63 = 5-400 mm (dimension x2) Series 32F, 32M $\varnothing$ 100 = 5-500 mm (dimension x2)
<b>Strokes min. and max. (1)</b>	Series 32F, 32M $\varnothing$ 25 = 5-80 mm
<b>Tandem</b>	Series 32F, 32M $\varnothing$ 40 - 63 - 100 = 5-100 mm
<b>Operating temperature</b>	0°C + 80°C (with dry air -20°C)
<b>Operating pressure</b>	1 + 10 bar
<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>Operating speed</b>	10 + 1000 mm/sec (without load)

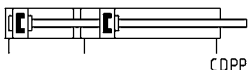
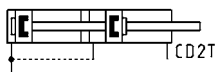
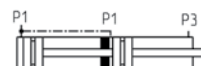
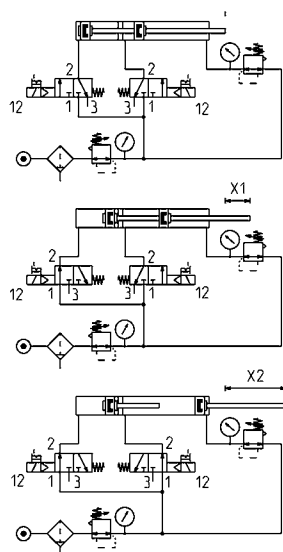
(1) the minimum stroke for the use of the sensors is 10 mm.

**CODING EXAMPLE**

<b>32</b>	<b>M</b>	<b>2</b>	<b>A</b>	<b>040</b>	<b>A</b>	<b>050</b>	<b>N</b>	<b>2</b>
<b>32</b>	SERIES compact magnetic							
<b>M</b>	VERSION M = male rod thread F = female rod thread							
<b>2</b>	OPERATION 2 = double-acting					PNEUMATIC SYMBOLS CD2T - CDPP		
<b>A</b>	MATERIALS A = anodized aluminium body, end blocks and piston - PU seals (rod - OR end block and piston)							
<b>040</b>	BORE 025 = 25 mm - 040 = 40 mm - 063 = 63 mm - 100 = 100 mm							
<b>A</b>	CONSTRUCTION A = standard							
<b>050</b>	STROKE - tandem stroke in mm - multi-position X1mm/X2mm. Insert the strokes without the initial 0 (see application scheme).							
<b>N</b>	Tandem and multi-position							
<b>2</b>	STAGES (for tandem version only) 2 = 2 stages							

**PNEUMATIC SYMBOLS**

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


**Operation scheme**


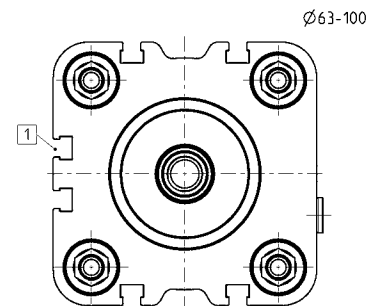
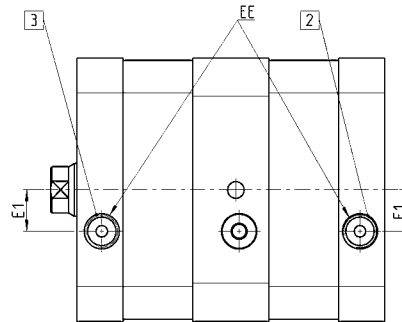
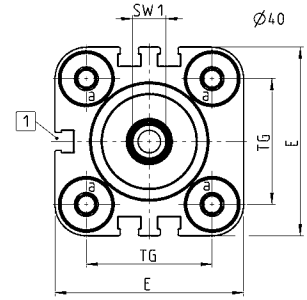
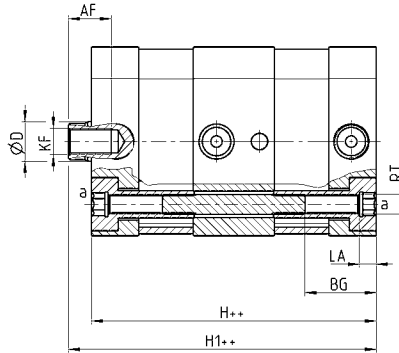
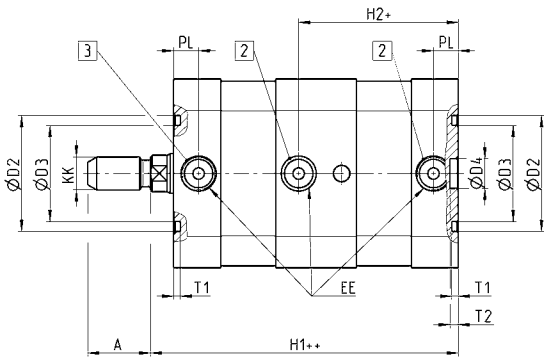
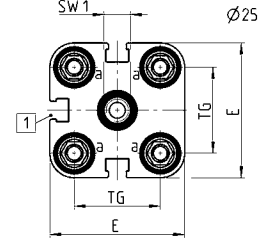
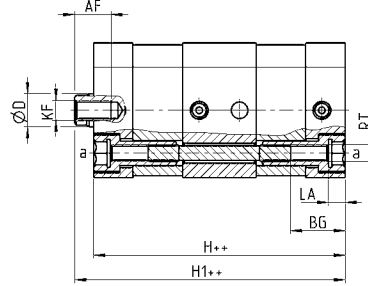
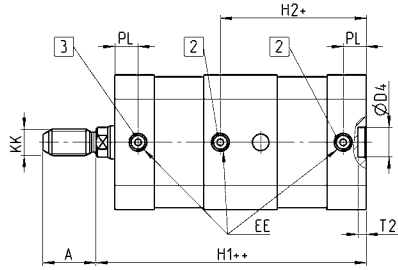
Multi-position  
Example: 32M2A040A25/75N  
X1 = 25 mm  
X2 = 75 mm

Tandem  
Example: 32M2A040A050N2  
Stroke = 50 mm

Tandem cylinders Mod. 32F2A/32M2A...N2



- + = add the stroke
- ++ = add the stroke two times
- 1 = Groove for sensor
- 2 = Positive stroke
- 3 = Negative stroke



DIMENSIONS

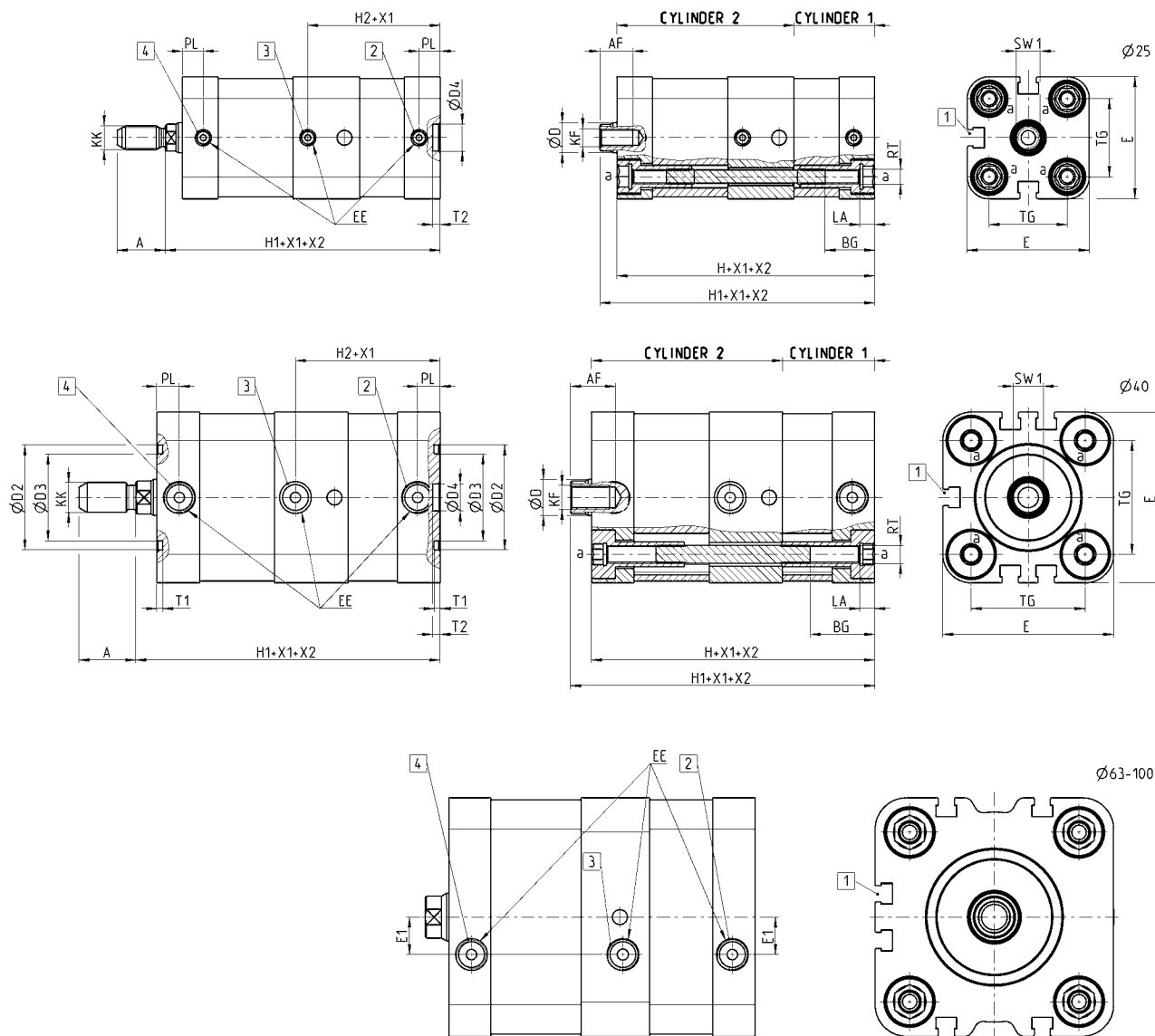
Ø	A	AF	BG	ØD	ØD2	ØD3	ØD4	E	EE	E1	H	H1	H2	KF	KK	LA	PL	RT	SW1	T1	T2	TG
25	16	11	16,5	10	-	-	9	40,7	M5	-	76	81,7	44	M6	M8X1,25	5	7	M5	8	-	2,5	26
40	19	13	21,5	12	35	29	9	57	G1/8	-	86	93	48,2	M8	M10X1,25	5	7,6	M6	10	2	2,5	38
63	22	16	18,5	16	45	39	12	79,6	G1/8	12'5	93	101	-	M10	M12X1,25	6	7,6	M8	13	2	3	56,5
100	28	20	20	25	55	49	12	115,6	G1/8	25	121	130,7	-	M12	M16X1,5	6	8	M10	22	2	3	89

## Multi-position cylinders Mod. 32F2A/32M2A...X1/X2N

- 1 = Groove for sensor
- 2 = Positive stroke cylinder 1
- 3 = Positive stroke cylinder 2
- 4 = Negative stroke for both cylinders



X1 = Partial stroke  
X2 = Total stroke as operation scheme pag. 1.1.31.2



## DIMENSIONS

Ø	A	AF	BG	ØD	ØD2	ØD3	ØD4	E	EE	E1	H	H1	H2	KF	KK	LA	PL	RT	SW1	T1	T2	TG
25	16	11	16,5	10	-	-	9	40,7	M5	-	76	81,7	44	M6	M8X1,25	5	7	M5	8	-	2,5	26
40	19	13	21,5	12	35	29	9	57	G1/8	-	86	93	48,2	M8	M10X1,25	5	7,6	M6	10	2	2,5	38
63	22	16	18,5	16	45	39	12	79,6	G1/8	12,5	93	101	44	M10	M12X1,25	6	7,6	M8	13	2	3	56,5
100	28	20	20	25	55	49	12	115,6	G1/8	25	121	130,7	60,5	M12	M16X1,5	6	8	M10	22	2	3	89