Series 61 cylinders -Aluminium profile

Single and double-acting, magnetic, cushioned Standard, low friction, low temperatures and tandem versions ø 32, 40, 50, 63, 80, 100, 125 mm





Series 61 cylinders have been designed to comply with the dimensions laid down in the ISO 15552 standards. A permanent magnet, mounted on the piston in these cylinders, enables information to be received regarding the piston position by means of proximity switches mounted in grooves along the cylinder profile. These grooves can be covered with a slot cover profile.

This cylinder series is equipped with adjustable end-stroke cushioning. Moreover, they are equipped with a mechanical cushioning in order to reduce the impact of the piston as it reaches the end of the stroke.

- » In compliance with ISO 15552 standards and with the previous DIN/ISO 6431 VDMA 24562 standards
- » Rolled stainless steel rod
- » Clean design with adjustable pneumatic cushioning
- » Available special versions

TANDEM:

» Double thrust and traction forces

LOW FRICTION:

» Friction force reduced by over 40%

LOW TEMPERATURE:

» Versions for -40°C and for -50°C

G VARIANT FOR DUSTY APPLICATIONS:

» Highly resistant to dust, cement, resin, mud and wood residue

GENERAL DATA

Fluid

Type of construction with tie-rods (inside the profile) Operation double-acting, single-acting, tandem. Low friction version: double-acting only. Materials standard: AL end-blocks and piston, rolled stainless steel AISI 420B rod, anodized AL profile tube, zinc-plated steel tie-rods and tie-rod nuts. PU seals: low friction: standard materials with NBR piston seal and NBR rod seal (FKM rod seal on request) low temperature: standard materials with chrome plated stainless steel AISI 420B rod, brass rod scraper ring, stainless steel AISI 303 nuts, stainless steel AISI 420B tie-rods, PU piston seals and NBR rod seal Type of mounting with front / rear flange, foot mounting, with front / rear / centre / swivel trunnion Stroke min - max 10 ÷ 2500 mm Operating temperature standard and low friction: 0°C ÷ 80°C (with dry air -20°C) low temperature (-40°C version): -40°C ÷ 60°C (with dry air -40°C) low temperature (-50°C version): -50°C ÷ 60°C (with dry air -50°C) Operating pressure 1 ÷ 10 bar (standard and low temperature); 0,1 ÷ 10 bar (low friction) Speed 10 ÷ 1000 mm/sec, no load (standard and low temperature); 5 ÷ 1000 mm/sec, no load (low friction)

filtered air, without lubrication. For standard versions only: if lubricated air is used, it is recommended to use oil ISOVG32. Once

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applied the lubrication should never be interrupted.

STANDARD STROKES FOR CYLINDERS SERIES 61

■ = Single-acting (standard and low temperature) **≭** = Double-acting (standard, low friction and low temperature) Other strokes up to 2500 mm are available on request.

STAND	STANDARD STROKES														
Ø	25	50	75	80	100	125	150	160	200	250	300	320	400	500	
32	= ×	= ×	= ×	×	×	×	×	×	×	×	×	×	×	×	
40	= ×	= ×	= ×	×	×	×	×	×	×	×	×	×	×	×	
50	= ×	= ×	= ×	×	×	×	×	×	×	×	×	×	×	×	
63	= ×	= ×	= ×	×	×	×	×	×	×	×	×	×	×	×	
80	= ×	= ×	= ×	×	×	×	×	×	×	×	×	×	×	×	
100		= ×	= ×	×	×	×	×	×	×	×	×	×	×	×	
125		×	×	×	×	×	×	×	×	×	×	×	×	×	

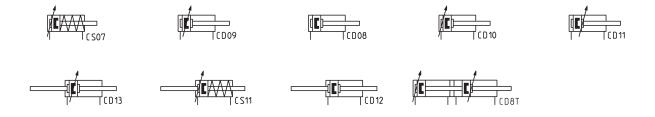
CODING EXAMPLE

61	M	0200													
61	SERIES														
M	VERSION M = standard, magnetic L = low friction, magnetic														
2	OPERATIONPNEUMATIC SYMBOLS1 = single-acting, front spring (Ø 32 ± Ø 100)CS072 = double-acting, front and rear cushionedCD093 = double-acting, no cushionCD084 = double-acting, rear cushionedCD105 = double-acting, front cushionedCD116 = double-acting, through-rod, front and rear cushionedCD137 = single-acting, through-rod, no cushionCS118 = double-acting, through-rod, no cushionCD12														
P	R = stainless steel AIS C = rolled stainless st U = rolled stainless st W = rolled stainless st Z = chrome plated sta stainless steel AISI Y = chrome plated sta	eel AISI 303 piston rod, s eel AISI 303 piston rod, teel AISI 304 piston rod, ainless steel AISI 420B ro I 303 tie-rods nuts, seals ainless steel AISI 420B ro	s steel AISI 303 tie-rod ttainless steel AISI 304 AISI 304 piston-rod nu AISI304 piston-rod nu d, stainless steel AISI 3 for low temperature (d, stainless steel AISI 3	nuts, other materials (see the piston rod nut t, AISI 420B tie-rods, AISI 303 ti t, AISI 420B tie-rods, AISI 303 ti .04 rod nut, stainless steel AISI -40°C), brass rod scraper .04 rod nut, stainless steel AISI -50°C), brass rod scraper	e-rod nuts e-rod nuts 420B tie-rods,										
050	BORE 032 = 32 mm - 040	= 40 mm - 050 = 50 m	m - 063 = 63 mm -	080 = 80 mm - 100 = 100 mi	m - 125 = 125 mm										
Α	CONSTRUCTION A = standard with roc	d nut - RL = cylinder wi	th rod lock												
0200	STROKE (see the table	e)													
	W = all FKM seals +13 () = extended p	i0°C C = PU coated cylin iston rod mm G =	with brass rod scraper	low friction version without re (chrome plated stainless stee											
				ntact our technical dept. ner reduces the friction force.											

Note: all double-acting cylinders are also available in the low friction version.

PNEUMATIC SYMBOLS

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



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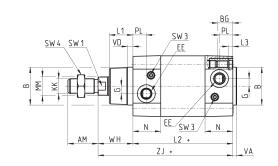
Cylinders Series 61

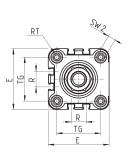
N.B.: the single-acting cylinders, sizes ZJ and L2 are increased by 25 mm.



+ = add the stroke

Table note: * = special key 80-62/8C (see accessories)









Ø80-100

DIME	DIMENSIONS																								
Ø	АМ	В	BG	Е	EE	G	KK	L1	L2+	L3	MM	N	PL	R	RT	SW1	SW2	SW3	SW4	TG	VA	VD	WH	ZJ+	front/rear cushion stroke
32	22	30	16	46	G1/8	5	M10x1,25	18	94	5	12	26	14	13	М6	10	6	2	17	32,5	4	5	26	120	17 / 12
40	24	35	16	55	G1/4	5	M12x1,25	21	105	5	16	29	15	13,5	М6	13	6	2	19	38	4	5	30	135	20 / 17
50	32	40	16	64,5	G1/4	8	M16x1,5	25	106	5	20	29,5	15	16	M8	17	8	3	24	46,5	4	6	37	143	15 / 14
63	32	45	16	75	G3/8	8	M16x1,5	26	121	5	20	36,5	21	28	M8	17	8	3	24	56,5	4	6	37	158	17 / 16
80	40	45	19	93	G3/8	8	M20x1,5	30	128	0	25	36	21	30	M10	22	*	5	30	72	4	7	46	174	20 / 20
100	40	55	19,5	110	G1/2	8	M20x1,5	35	138	0	25	38,5	23	40	M10	22	*	5	30	89	4	7	51	189	21 / 19
125	54	60	23	135	G1/2	10,5	M27x2	42	160	0	32	43	23,5	50	M12	27	12	4	41	110	6	8	65	225	26 / 25

Cylinders Series 61 - through-rod

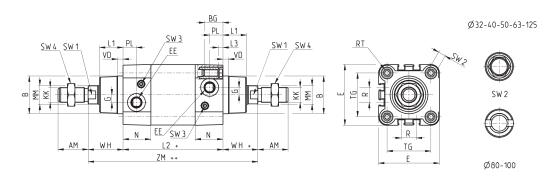
Note: the single-acting cylinders sizes ZM and L2 are increased by 25 mm.





++ = add the stroke twice

Table note: * = special key 80-62/8C (see accessories)



DIME	DIMENSIONS																							
Ø	AM	В	BG	Е	EE	G	KK	L1	L2+	L3	MM	N	PL	R	RT	SW1	SW2	SW3	SW4	TG	VD	WH	ZM++	front/rear cushion stroke
32	22	30	16	46	G1/8	5	M10x1,25	18	94	5	12	26	14	13	М6	10	6	2	17	32,5	5	26	146	17 / 12
40	24	35	16	55	G1/4	5	M12x1,25	21	105	5	16	29	15	13,5	М6	13	6	2	19	38	5	30	165	20 / 17
50	32	40	16	64,5	G1/4	8	M16x1,5	25	106	5	20	29,5	15	16	М8	17	8	3	24	46,5	6	37	180	15 / 14
63	32	45	16	75	G3/8	8	M16x1,5	26	121	5	20	36,5	21	28	М8	17	8	3	24	56,5	6	37	195	17 / 16
80	40	45	19	93	G3/8	8	M20x1,5	30	128	0	25	36	21	30	M10	22	*	5	30	72	7	46	220	20 / 20
100	40	55	19,5	110	G1/2	8	M20x1,5	35	138	0	25	38,5	23	40	M10	22	*	5	30	89	7	51	240	21 / 19
125	54	60	23	135	G1/2	10,5	M27x2	42	160	0	32	43	23,5	50	M12	27	12	4	41	110	8	65	290	26 / 25