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 comply with the ISO 15552 standards and can be assembled with the entire range of standard accessories. 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

Type of construction	with tie-rods (inside the profile)
Operation	double-acting, single-acting, tandem. Low friction version: double-acting only.
Design	ISO 15552
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)
Fluid	filtered air, without lubrication. For standard versions only: if lubricated air is used, it is recommended to use oil ISOVG32. Once applied the lubrication should never be interrupted.

STANDARD STROKES FOR CYLINDERS SERIES 61

Single-acting (standard and low temperature) Other strokes up to 2500 mm are available on request.

x = Double-acting (standard, low friction and low temperature)

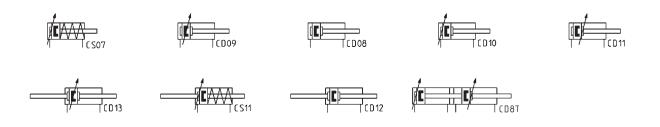
STAND	ARD STROK	ES												
Ø	25	50	75	80	100	125	150	160	200	250	300	320	400	500
32	= ×	= ×	= ×	×	×	×	×	×	×	×	×	×	×	×
40	= ×	= ×	= ×	×	×	×	×	×	×	×	×	×	×	×
50	= ×	= ×	= ×	×	×	×	×	×	×	×	×	×	×	×
63	= ×	= ×	= ×	×	×	×	×	×	×	×	×	×	×	×
80	= ×	= ×	= ×	×	×	×	×	×	×	×	×	×	×	×
100		= ×	= ×	×	×	×	×	×	×	×	×	×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

CODING EXAMPLE

61	Μ	2	Р	050	Α	0200				
61	SERIES									
М	VERSION M = standard, magnetic L = low friction, magnetic									
2	OPERATION 1 = single-acting, fro 2 = double-acting, fro 3 = double-acting, n 4 = double-acting, fro 5 = double-acting, t 6 = double-acting, th 8 = double-acting, th	PNEUMATIC 5 CSO7 CD09 CD08 CD10 CD11 CD13 CS11 CD12	CD09 CD08 CD10 CD11 CD13 CS11							
Р	MATERIALS P = see the GENERAL DATA table on the previous page R = stainless steel AISI 420B tie-rods, stainless steel AISI 303 tie-rod nuts, other materials (see the previous page) C = rolled stainless steel AISI 303 piston rod, stainless steel AISI 304 piston rod nut U = rolled stainless steel AISI 303 piston rod, AISI 304 piston-rod nut, AISI 420B tie-rods, AISI 303 tie-rod nuts W = rolled stainless steel AISI 304 piston rod, AISI304 piston-rod nut, AISI 420B tie-rods, AISI 303 tie-rod nuts Z = chrome plated stainless steel AISI 420B rod, stainless steel AISI 304 rod nut, stainless steel AISI 420B tie-rods, stainless steel AISI 303 tie-rods nuts, seals for low temperature (-40°C), brass rod scraper Y = chrome plated stainless steel AISI 420B rod, stainless steel AISI 304 rod nut, stainless steel AISI 420B tie-rods, stainless steel AISI 303 tie-rods nuts, seals for low temperature (-50°C), brass rod scraper									
	stainless steel AIS	al 303 tie-rods nuts, sea	is for low temperature (-:	i0°C), brass rod scraper						
050	BORE			0°C), brass rod scraper 80 = 80 mm - 100 = 100 m	nm - 125 = 125 mm					
050 A	BORE 032 = 32 mm - 040 CONSTRUCTION		mm - 063 = 63 mm - 0		ım - 125 = 125 mm					
	BORE 032 = 32 mm - 040 CONSTRUCTION	0 = 40 mm - 050 = 50 d nut - RL = cylinder v	mm - 063 = 63 mm - 0		nm - 125 = 125 mm					

PNEUMATIC SYMBOLS

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

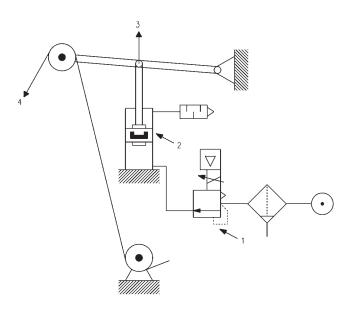


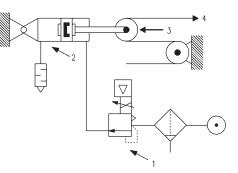
SERIES 61 CYLINDERS

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SERIES 61 CYLINDERS

Series 61 low friction cylinders - APPLICATION EXAMPLES





CYLINDER IN THRUST

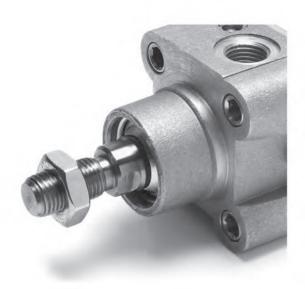
DRAWING NOTES:

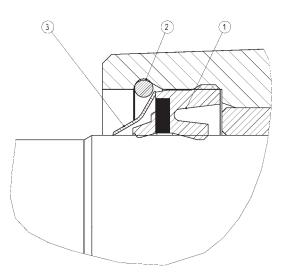
- 1. Precision pressure regulator or proportional regulator
- 2. Low friction cylinder
- 3. Force direction
- 4. Band

Series 61 low temperatures cylinders - DETAIL

CYLINDER IN TRACTION

Note: in order to reach the highest performance, it is recommended to connect a precision pressure regulator or a proportional regulator with the low friction cylinder as shown in the drawing.





1 = rod seal 2 = flexible ring 3 = metal scraper

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