

GENERAL

Detection

Fluid

Operating pressure

Ambient temperature

Optimal max. speed

Max. speed rate

Standards

Equipped for magnetic position detectors

Air or inert gas, filtered, lubricated or not

10 bar, max. [1 bar = 100 kPa]

-10°C to +70°C

≤ 1 m/s (for optimal service life)

2 m/s

CNOMO 06-07-02 to 06-07-15

AFNOR NFE 49001 - NFE 49002

NFE 49011 to NFE 49015

CONSTRUCTION

Barrel

Tie rods

Front and rear ends

Bearing

Cushioning seals

Cushioning

Rod

Rod nut

Piston

Hard anodized aluminium alloy (Ø 25: stainless steel)

Stainless steel (Ø32-100), paint steel (Ø 25 + Ø125-200)

Zamak (Ø 25 mm) - light alloy (Ø 32 to 200 mm)

Self-lubricating metal

NBR (nitrile)

Pneumatic, adjustable from both sides with captive screw

Hard chrome plated steel

Galvanised steel

Ø 25 to 200 mm light alloy

fitted with an annular permanent magnet

Piston seals

Rod seal

PUR (polyurethane)

NBR (nitrile)



cushioning length

Ø 25 - 32 mm = 15 mm

Ø 40 - 50 mm = 20 mm

Ø 63 - 80 mm = 21 mm

Ø 100 - 125 mm = 24 mm

Ø 160 - 200 mm = 30 mm

SPECIFICATIONS

Ø (mm)	connect. Ø (G) ⁽¹⁾	stroke (mm)	catalogue number *	reference	max. stroke (mm)
25	G 1/8	25	43701270	PCN 25 A 25 - DM	2000
		50	43700999	PCN 25 A 50 - DM	
		75	43701271	PCN 25 A 75 - DM	
		100	43701000	PCN 25 A 100-DM	
		125	43701272	PCN 25 A 125-DM	
		150	43701001	PCN 25 A 150-DM	
		200	43701002	PCN 25 A 200-DM	
		250	43701003	PCN 25 A 250-DM	
		300	43701273	PCN 25 A 300-DM	
		400	43701274	PCN 25 A 400-DM	
		to be defined	43751263.... ⁽²⁾	PCN 25 A ⁽²⁾ -DM	
32	G 1/8	25	43701275	PCN 32 A 25 - DM	2000
		50	43701004	PCN 32 A 50 - DM	
		75	43701276	PCN 32 A 75 - DM	
		100	43701005	PCN 32 A 100-DM	
		125	43701277	PCN 32 A 125-DM	
		150	43701006	PCN 32 A 150-DM	
		200	43701007	PCN 32 A 200-DM	
		250	43701008	PCN 32 A 250-DM	
		300	43701278	PCN 32 A 300-DM	
		400	43701279	PCN 32 A 400-DM	
40	G 1/4	25	43701280	PCN 40 A 25 - DM	2000
		50	43701009	PCN 40 A 50 - DM	
		75	43701281	PCN 40 A 75 - DM	
		100	43701010	PCN 40 A 100-DM	
		125	43701282	PCN 40 A 125-DM	
		150	43701011	PCN 40 A 150-DM	
		200	43701012	PCN 40 A 200-DM	
		250	43701013	PCN 40 A 250-DM	
		300	43701014	PCN 40 A 300-DM	
		400	43701015	PCN 40 A 400-DM	
50	G 1/4	25	43701283	PCN 50 A 25 - DM	2000
		50	43701016	PCN 50 A 50 - DM	
		75	43701284	PCN 50 A 75 - DM	
		100	43701017	PCN 50 A 100-DM	
		125	43701285	PCN 50 A 125-DM	
		150	43701018	PCN 50 A 150-DM	
		200	43701019	PCN 50 A 200-DM	
		250	43701020	PCN 50 A 250-DM	
		300	43701021	PCN 50 A 300-DM	
		400	43701022	PCN 50 A 400-DM	
		to be defined	43751266.... ⁽²⁾	PCN 50 A ⁽²⁾ -DM	

Ø (mm)	connect. Ø (G) ⁽¹⁾	stroke (mm)	catalogue number *	reference	max. stroke (mm)
63	G 3/8	25	43701286	PCN 63 A 25 - DM	2000
		50	43701023	PCN 63 A 50 - DM	
		75	43701287	PCN 63 A 75 - DM	
		100	43701024	PCN 63 A 100-DM	
		125	43701288	PCN 63 A 125-DM	
		150	43701025	PCN 63 A 150-DM	
		200	43701026	PCN 63 A 200-DM	
		250	43701027	PCN 63 A 250-DM	
		300	43701028	PCN 63 A 300-DM	
		400	43701029	PCN 63 A 400-DM	
		500	43701030	PCN 63 A 500-DM	
		600	43701031	PCN 63 A 600-DM	
80	G 3/8	to be defined	43751267.... ⁽²⁾	PCN 63 A ⁽²⁾ -DM	2000
		25	43701289	PCN 80 A 25 - DM	
		50	43701032	PCN 80 A 50 - DM	
		75	43701290	PCN 80 A 75 - DM	
		100	43701033	PCN 80 A 100-DM	
		125	43701291	PCN 80 A 125-DM	
		150	43701034	PCN 80 A 150-DM	
		200	43701035	PCN 80 A 200-DM	
		250	43701036	PCN 80 A 250-DM	
		300	43701037	PCN 80 A 300-DM	
		400	43701038	PCN 80 A 400-DM	
		500	43701039	PCN 80 A 500-DM	
100	G 1/2	600	43701040	PCN 80 A 600-DM	2000
		to be defined	43751268.... ⁽²⁾	PCN 80 A ⁽²⁾ -DM	
		25	43701494	PCN 100 A 25 - DM	
		50	43701329	PCN 100 A 50 - DM	
		75	43701495	PCN 100 A 75 - DM	
		100	43701330	PCN 100 A 100 - DM	
		125	43701496	PCN 100 A 125 - DM	
		150	43701331	PCN 100 A 150 - DM	
		200	43701332	PCN 100 A 200 - DM	
		250	43701333	PCN 100 A 250 - DM	
		300	43701334	PCN 100 A 300 - DM	
		400	43701335	PCN 100 A 400 - DM	
		500	43701336	PCN 100 A 500 - DM	
		600	43701337	PCN 100 A 600 - DM	
		700	43701338	PCN 100 A 700 - DM	
		800	43701339	PCN 100 A 800 - DM	
		900	43701340	PCN 100 A 900 - DM	
		1000	43701341	PCN 100 A 1000-DM	
		to be defined	43751278.... ⁽²⁾	PCN 100 A ⁽²⁾ -DM	

* The magnetic position detectors must be ordered separately:

- "T" model ([reed switch](#) or [magneto-resistive](#) type)

⁽¹⁾ Thread connection: G = ISO 16030

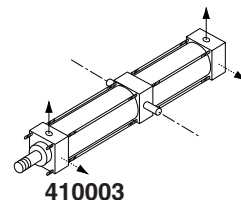
⁽²⁾ Code for non standard stroke, to be defined.

(Min. stroke: 5 mm)

OPTIONS AND SPECIAL VERSIONS

- Other strokes on request
- Version without cushioning and/or non equipped for magnetic position detectors.
- Standard orientation of trunnion: trunnion axis perpendicular to the ports (trunnion axis orientation horizontal to the ports, option cat. no. **410003**)
- Piston rod in 316L stainless steel, cat. no.: **995002** - in 303 stainless steel, cat. no.: **995202**
- Overlength piston rod in hard chrome steel, cat. no.: **995003** - in 316L stainless steel, cat. no.: **995004** - in 303 stainless steel, cat. no.: **995204**
- Through rod: contact us

Other options and special versions: contact us



DIMENSIONS (mm), WEIGHT (kg)

THROUGH-ROD TYPE CYLINDER

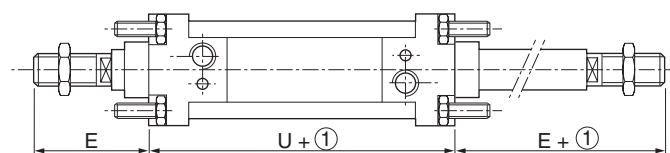
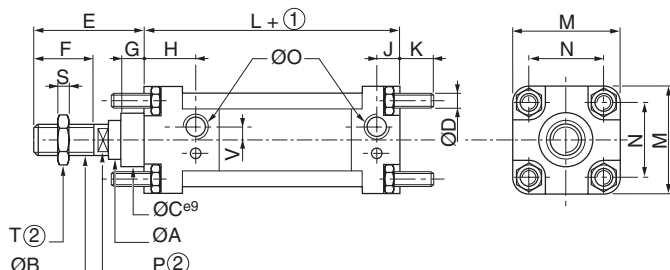


Tie-rod cylinder
CNOMO 06.07.02

SINGLE-ROD TYPE CYLINDER



Tie-rod cylinder
CNOMO 06.07.02



- ① Stroke
② Width across flats

Ø	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	S
25	12	M10 x 1,5	25	M6	45	20	15	14	14	17	80	40	28	G1/8	8	5
32	12	M10 x 1,5	25	M6	45	20	15	18	11,5	17	80	45	33	G1/8	8	5
40	18	M16 x 1,5	32	M6	70	36	15	29,5	11	17	110	52	40	G1/4	13	8
50	18	M16 x 1,5	32	M8	70	36	15	29,5	14	23	110	65	49	G1/4	13	8
63	22	M20 x 1,5	45	M8	85	46	20	33	16	23	125	75	59	G3/8	17	10
80	22	M20 x 1,5	45	M10	85	46	20	33	16	28	125	95	75	G3/8	17	10
100	30	M27 x 2	55	M10	110	63	20	30	30	28	145	115	90	G1/2	22	13,5
125	30	M27 x 2	55	M12	110	63	20	36,5	18	34	145	140	110	G1/2	22	13,5
160	40	M36 x 2	65	M16	135	85	25	39	20	42	180	180	140	G3/4	32	18
200	40	M36 x 2	65	M16	135	85	25	39	20	42	180	220	175	G3/4	32	18

Ø	T	U	V	weight	
				(3)	(4)
25	17	90	2,5	0,520	0,280
32	17	90	4	0,640	0,320
40	24	129	1,5	0,910	0,470
50	24	129	4	1,200	0,600
63	30	146	5,5	1,970	0,830
80	30	146	5,5	2,700	1,100
100	41	164	-	5,100	1,280
125	41	164	-	6,500	2,000
160	54	200	-	13,550	3,250
200	54	200	-	18,000	4,100

(3) Cylinder weight at 0 mm stroke.

(4) Weight to be added per additional 100 mm length.

SPARE PARTS KITS CODE

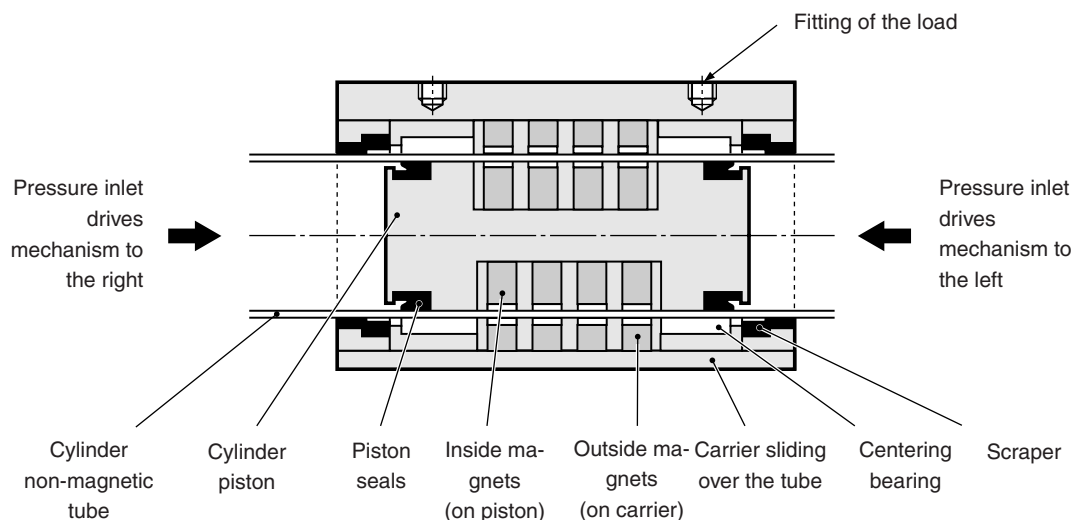
Ø (mm)	1 + 2 + 3 ⁽¹⁾	4 to 10 (Except 6: Ø25 to 100) seals
25	97801393	97801412
32	97801393	97801394
40	97801395	97801396
50	97801395	97801398
63	97801399	97801400
80	97801399	97801402
100	97801543	97802263
125	97801569	97802264
160	97801544	97802265
200	97801544	97802266

(1) For best results, use grease supplied in each kit. Supplementary tube (11 cm³) available on request, catalogue number: **97802100**

(2) Specify stroke length (in mm).

OPERATING SYSTEM

The air-operated cylinder slides within the non-magnetic tube. The cylinder activates the carrier via the magnetic coupling by means of powerful permanent magnets.



CHARACTERISTICS

Rodless cylinders with magnetic coupling offer many advantages :

- **REDUCED DIMENSIONS**

Unlike the traditional pneumatic cylinders, the linear drive cylinders with magnetic coupling are rodless, with reduced dimensions, an easier sliding of the cylinder within the mechanism and a different positioning of the load to move. This type of cylinder is compact.

- **EASY MOUNTING**

Cylinders are drilled for easier mounting and reduced dimensions.

- **LONG LASTING EQUIPMENT**

Due to absence of piston rod and mechanical movement, the cylinder with magnetic coupling is hermetically closed : it is thus leakage- and dust-free.

- **NON LUBRICATED AIR**

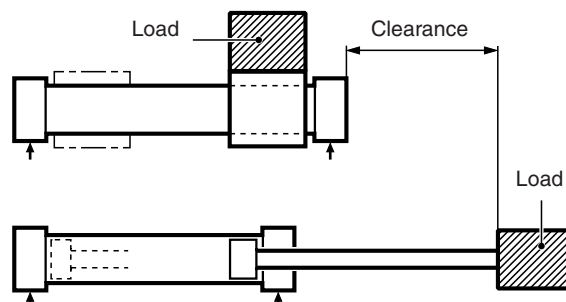
These products of advanced technology operate with lubricated or non-lubricated air.

- **MECHANICAL PROTECTION**

The linear drive is performed by magnetic coupling. In case the holding limit is exceeded, a magnetic breakaway occurs, thus offering an additional protection of the machinery and their environment. The magnetic coupling is restored when the piston and carrier align once again.

- **POSITION CONTROL**

All the cylinders are originally designed to be equipped with magnetic position detectors with ILS, LED and wire outlet.



APPLICATIONS

Whenever space is limited or large linear drives are required such as : door opening, sliding carriers, material handling, loading and feeding, transmission over conveyors, workpieces lift (or hoist), sliding of spraying guns or cutting tools etc...