Cylinders according to CNOMO standards - Series CN

Bores Ø : 32 - 40 - 50 - 63 - 80 - 100 - 125 - 160 - 200 mm.

SERIE CN

- Robust cylinders for heavy duty application
- According to C.N.O.M.O. standards
- Caps in die-cast aluminium, anodized / epoxy painted
- Piston rod in steel C45, grounded and hard chromium plated
- Profiled tube in anodized aluminium, internally gauged
- Adjustable end of stroke pneumatic cushions
- Complete piston in NBR vulcanized Aluminium piston with NBR seals
- Sensors and mounting accessories

TECHNICAL FEATURES	
Construction	Caps fixed on profiled tube by bolts / Caps fixed on round tube by tie rods
Function	Double acting
Standard materials	Caps in die-cast aluminium anodized / epoxy painted, piston rod in steel C45 grounded and hard chromium plated. Profiled tube in anodized aluminiun internally gauged, complete piston/aluminium piston. Seals in NBR - PU
Note about the materials	According to Directive REACH (1907/2006/CE and s.a.s.)
Bores	Ø 32, 40, 50, 63, 80, 100, 125, 160, 200 mm
Standard strokes (min. - max.)	Ø 32: 25 mm ÷ 300 mm Ø 40, 50: 25 mm ÷ 400 mm Ø 63, 80: 25 mm ÷ 600 mm Ø 100, 125, 160, 200: 50 mm ÷ 1000 mm
Special strokes (on request)	Fino a 3000 mm
Working temperature	0 ÷ 80°C (standard seals, -20°C with dry air, in order to avoid formation of ice) 0÷ 150°C (option in FKM, -20°C with dry air, in order to avoid formation of ice)
Working pressure	0,5 ÷ 10 bar
Fluid	Filtered air without lubrication , according to ISO 8573-1:2010 [7:4:4]
Speed	10 ÷ 1000 mm/sec

CERTIFICAZIONE ATEX		
Cylinder marking	CE Ex II 2G Ex h IIC T6 Gb CE Ex II 2D Ex h IIIC 85°C Db	(Zona 1 e Zona 2) (Zona 21 e Zona 22)
Operating pressure in ATEX environment	0,5 ÷ 10 bar	
Temperature in ATEX environment	-20°C ≤ Ta ≤ +60°C	
CE marking	According to Directive 2014/34/EU (see declaration of conformity)	

TECHNICAL FEATURES									
Bore Ø (mm)	**32**	**40**	**50**	**63**	**80**	**100**	**125**	**160**	**200**
Ports (gas)	1/8”	1/4”	1/4”	3/8”	3/8”	1/2”	1/2”	3/4”	3/4”
Piston rod Ø (mm)	12	18	18	22	22	30	30	40	40
Thread of the piston rod (male)	M10 x 1,5	M16 x 1,5	M16 x 1,5	M20 x 1,5	M20 x 1,5	M27 x 2	M27 x 2	M36 x 2	M36 x 2
Theoretical push thrust at 6 bar (N)	482	754	1178	1870	3016	4710	7363	11831	18482
Theoretical pull thrust at 6 bar (N)	406	589	1001	1619	2737	4208	6799	11125	17746
Air consumption at 6 bar in push (Nl/cm)	0,056	0,088	0,137	0,218	0,350	0,550	0,860	1,407	2,198
Air consumption at 6 bar in pull (Nl/cm)	0,048	0,070	0,119	0,192	0,325	0,500	0,808	1,323	2,110
Cushioning stroke (mm)	18	23	23	27	27	33	33	37	37