Cylinders according to ISO 15552 standards - Series CC

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

SERIES CC

- Cylinders designed with lightened shape
- According to ISO 15552 standards
- Caps in die-cast aluminium, painted
- Piston rod in steel C45, grounded and hard chromium plated
- Profiled tube in anodized aluminium, internally gauged
- “T” grooves for sensors, on one side
- Adjustable end of stroke pneumatic cushions
- Piston in aluminium with magnetic ring
- Sensors and mounting accessories

TECHNICAL FEATURES	
Construction	Caps fixed on profiled tube by bolts
Function	Double acting, single acting on request
Standard materials	Caps in die-cast aluminium painted, piston rod in steel C45 grounded and hard chromium plated Profiled tube in anodized aluminiun internally gauged, piston in aluminium, 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 mm
Standard strokes (min. - max.)	Ø 32, 40, 50: 25 mm ÷ 400 mm Ø 63, 80: 25 mm ÷ 600 mm Ø 100, 125: 50 mm ÷ 1000 mm
Special strokes (on request)	Up to 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	1 ÷ 10 bar
Fluid	Filtered air without lubrication , according to ISO 8573-1:2010 [7:4:4]
Speed	10 ÷ 1000 mm/sec

ATEX CERTIFICATION		
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 DATA							
Bore Ø (mm)	**32**	**40**	**50**	**63**	**80**	**100**	**125**
Ports (gas)	1/8”	1/4”	1/4”	3/8”	3/8”	1/2”	1/2”
Piston rod Ø (mm)	12	16	20	20	25	25	32
Thread of the piston rod (male)	M10 x 1,25	M12 x 1,25	M16 x 1,5	M16 x 1,5	M20 x 1,5	M20 x 1,5	M27 x 2
Theoretical push thrust at 6 bar (N)	482	754	1178	1870	3016	4710	7363
Theoretical pull thrust at 6 bar (N)	414	633	990	1680	2722	4416	6882
Air consumption at 6 bar in push (Nl/cm)	0,056	0,088	0,137	0,218	0,350	0,550	0,860
Air consumption at 6 bar in pull (Nl/cm)	0,048	0,074	0,114	0,195	0,320	0,510	0,790
Cushioning stroke (mm)	20	20	25	25	35	35	30

Standard sales conditions available on www.bonesipneumatik.it