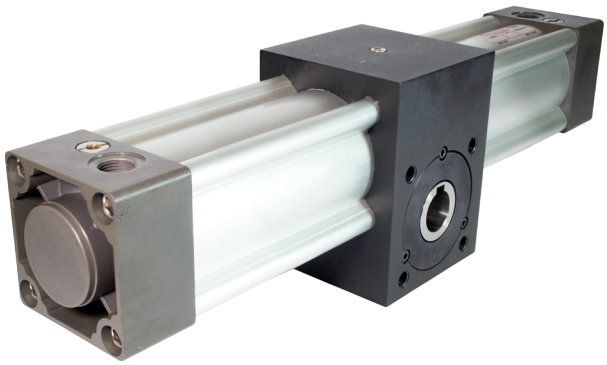
Rotary cylinders - Series CR

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

SERIE CR



- Rotary Cylinder for heavy duty application
- Central body in light anodized alloy with self-lubricant slide bronze
- Caps in die-cast aluminium anodized
- Pinion / rack group in steel grade C45
- Profiled tube in anodized aluminium, internally gauged
- Rotary group, with lubricating device, operating on ball bearings
- Adjustable end of stroke pneumatic cushions
- Complete piston in NBR vulcanized
- Sensors and mounting accessories

TECHNICAL FEATURES	
Construction	Caps fixed on profiled tube by bolts
Function	Double acting
Standard materials	Caps in die-cast aluminium anodized, central body in aluminium anodized. Pinion / rack group in steel grade C45. 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 mm
Rotary angle	90°, 180°, 360° (±3°)
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]

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**
Ports (gas)	1/8”	1/4”	1/4”	3/8”	3/8”	1/2”	1/2”
Pignon hole Ø (female)	10	15	15	24	24	35	35
Pignon pin Ø (male)	12	16	16	24	24	35	35
Theoretical torque moment at 6 bar (Nm)	6,7	14,1	21,9	46,9	75,7	164,4	256,8
Air consumption at 6 bar (Nl/cm) **90°**	0,038	0,079	0,132	0,276	0,446	0,962	1,336
180°	0,076	0,165	0,256	0,584	0,844	1,937	2,920
360°	0,161	0,333	0,521	1,140	1,829	3,944	5,802
Rotary angle (α)	90° - 180°- 360°						
Angle of rotation adjustment (β)	19°	20°	20°	17°	17°	17°	17°
Cushioning angle (γ)	50°	50°	50°	50°	50°	50°	40°