

Compact cylinders according to standard ISO 21287 - CI series

Bores Ø: 20 - 25 - 32 - 40 - 50 - 63 - 80 - 100 - 125 mm.

CI SERIES



- Compact short stroke cylinder
- Compliant with the ISO 21287 regulation
- Die-cast painted aluminum heads
- Rod in AISI 303 steel
- Anodised aluminium lining, internally calibrated
- T-slots for concealed sensors
- Aluminium piston equipped with magnetic ring
- Sensors and assembly accessories

TECHNICAL CHARACTERISTICS

Construction	Heads fixed on profiled lining by screws
Operation	Single acting - Double acting - Anti-rotation - Through stem
Standard materials	Painted die-cast aluminium heads, AISI 303 rod, internally calibrated anodised aluminium lining, aluminium piston and NBR - PU gaskets
Note on materials	Compliant with REACH (1907/2006/EC and subsequent amendments)
Bores	Ø 20, 25, 32, 40, 50, 63, 80, 100, 125 mm
Standard strokes	See standard strokes table
Special strokes (on request)	To be agreed with the sales office
Operating temperature	0 ÷ 80°C standard gaskets (-20°C with dry air, to avoid ice formation) 0 ÷ 150°C high temperature gaskets
Operating pressure	1 ÷ 10 bar (2 ÷ 10 bar for single-acting version)
Fluid	Filtered air, lubrication-free, compliant with ISO 8573-1:2010 [7:4:4]
Speed	10 ÷ 1000 mm/sec

TECHNICAL DATA

Bore Ø (mm)	20	25	32	40	50	63	80	100	125
Connections (gas)	M5	M5	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/4"
Rod Ø (mm)	10	10	12	12	16	16	20	25	25
Standard stem thread (female)	M6 x 1.00	M6 x 1.00	M8 x 1.25	M8 x 1.25	M10 x 1.50	M10 x 1.50	M12 x 1.75	M12 x 1.75	M16 x 2.00
Stem thread (male)	M8 x 1.25	M8 x 1.25	M10 x 1.25	M10 x 1.25	M12 x 1.25	M12 x 1.25	M16 x 1.50	M16 x 1.50	M20 x 1.50
Theoretical push force at 6 bar (N)	188	295	483	754	1177	1869	3015	4710	7360
Theoretical tensile force at 6 bar (N)	140	247	415	685	1057	1750	2825	4520	7070
Thrust energy consumption at 6 bar (Nl/cm)	0.021	0.034	0.056	0.088	0.137	0.218	0.350	0.550	0.900
Air consumption at 6 bar in traction (Nl/cm)	0.016	0.028	0.048	0.080	0.123	0.204	0.329	0.510	0.870

⁽¹⁾ For the through-rod version: consider the tensile force also in thrust