

Short stroke cylinders according to U.N.I.T.O.P. - Series CU

Bores Ø : 16 - 20 - 25 - 32 - 40 - 50 - 63 - 80 - 100 mm.

SERIES CU



Short stroke cylinders

According to U.N.I.T.O.P. - RUP/7

Caps in die-cast aluminium, anodized or painted

Stainless steel AISI 303 rolled piston rod

Profiled tube in anodized aluminium, internally gauged

Piston in aluminium with magnetic ring

Sensors and mounting accessories

TECHNICAL FEATURES

Construction	Caps fixed on profiled tube by bolts
Function	CUD: Double acting, female threaded rod, magnetic, not cushioning, elastic end of stroke cushioning. CUS: Single acting, female threaded rod, magnetic, not cushioning, elastic end of stroke cushioning.
Standard materials	Caps in die-aluminium alloy anodized o painted, stainless steel AISI 303 rolled piston rod. Profiled tube in anodized aluminium internally gauged, piston in aluminium anodized with magnetic ring. Seals in NBR - PU
Note about the materials	According to Directive REACH (1907/2006/CE and s.a.s.)
Bore	Ø 16, 20, 25, 32, 40, 50, 63, 80, 100 mm
Standard strokes (min. - max.) Single acting	Ø 16 ÷ 40: 5 mm ÷ 25 mm Ø 50 ÷ 100: 10 mm ÷ 25 mm
Standard strokes (min. - max.) Double acting	Ø 16: 5 mm ÷ 40 mm Ø 20 ÷ 25: 5 mm ÷ 50 mm Ø 32 ÷ 40: 5 mm ÷ 80 mm Ø 50 ÷ 100: 10 mm ÷ 80 mm
Special strokes (on request)	Up to 400 mm
Working temperature	0 ÷ 80°C (standard seals, -20°C with dry air, in order to avoid formation of ice)
Working pressure	0,5 ÷ 10 bar (2 ÷ 10 bar for single action version)
Fluid	Filtered air without lubrication , according to ISO 8573-1:2010 [7:4:4]
Speed	10 ÷ 1000 mm/sec

TECHNICAL DATA

Bore Ø (mm)	16	20	25	32	40	50	63	80	100
Ports (gas)	M5	M5	M5	1/8"	1/8"	1/8"	1/8"	1/8"	1/4"
Piston rod Ø (mm)	8	10	10	12	12	16	16	20	25
Thread of the piston rod (female)	M4 x 0,70	M5 x 0,80	M5 x 0,80	M6 x 1,00	M6 x 1,00	M8 x 1,25	M10 x 1,50	M10 x 1,50	M10 x 1,50
Thread of the piston rod (male)	M8 x 1,25	M10 x 1,25	M10 x 1,25	M10 x 1,25	M10 x 1,25	M12 x 1,25	M12 x 1,25	M16 x 1,50	M20 x 1,50
Theoretical push thrust at 6 bar (N) ⁽¹⁾	121	188	295	483	754	1177	1869	3015	4710
Theoretical pull thrust at 6 bar (N)	90	140	247	415	685	1057	1750	2825	4415
Air consumption at 6 bar in push (Nl/cm)	0,014	0,021	0,034	0,056	0,088	0,137	0,218	0,350	0,550
Air consumption at 6 bar in pull (Nl/cm)	0,010	0,016	0,028	0,048	0,080	0,123	0,204	0,329	0,510

⁽¹⁾ For the double ended piston rod: please consider the thrust in pull also in push