

KEY TO CODES

CYL	1 1 2 TYPE	0	16 BORE	0020 STROKE	C MATERIAL	P GASKETS	► E
	101 SE axial coupling	0 Standard	▼ 08	For the	A C45 chrome rod,	P Polyurethane	E Single-
	102 DEM axial coupling	U Bronze rear	▼ 10	maximum	aluminium piston	N NBR	acting
	104 SE through-rod	V Without	▼ 12	suppliable	C C45 chrome rod,	● V FKM/FPM	extended
■ ◀	106 SE cushioned	head nut	16	strokes,	technopolymer	● B Low	rod
■	109 DEA		20	look at the	piston	temperature	
	110 DE	S Non-magnetic	25	technical	Z Stainless steel piston		
◀	111 SE	▲ G No stick-slip		data	rod and nut		
	112 DEM				aluminium piston		
■	113 DEMA				X Stainless steel piston		
* ▼	114 DEM through-rod				rod and nut		
* ▼ ■	115 DEMA through-rod				technopolymer piston		
◆	116 DEM for mechanical						
	lock						
■	117 DEMA for						
	mechanical lock						

- DE: Double-acting (non-cushioned, not magnetic)

DEM: Magnetic double-acting (non-cushioned)

DEMA: Magnetic double-acting (cushioned)

DEA: Cushioned double-acting (non-magnetic)

SE: Single-acting (magnetic)
- Only available for non-magnetic versions (S) and with aluminium piston (A or Z)

▲ For speeds lower than 0.2m/s, to prevent surging. Use no-lubricated air only

▼ Stainless steel piston rod

■ Available from Ø 16

◆ Available from Ø 12

* For ø16 to 25 aluminium piston, stainless stell piston rod

◀ 106... single-acting retracted rod, cushioned

106...E single-acting extended rod, cushioned available in Ø 16 - Ø 20 - Ø 25

111... single-acting retracting piston rod

111...E single-acting extended piston rod, available in Ø 16 - Ø 20 - Ø 25

► Letter to be added only to the single acting extended rod version

NOTES

ISO 6432 MINI-CYLINDER SERIES TP



Minicylinders manufactured according to the ISO 6432 regulation having high resistance technopolymer heads and anodized aluminium liner. Available in various versions with a wide range of accessories:

- with or without magnet
- single and double acting-single or through rod
- gaskets made of POLYURETHANE
- fixing accessories and guide units.



TECHNICAL DATA		POLYURETHANE		
Max operating pressure	bar	10		
	MPa	1		
Temperature range	°C	-10 to +60		
Fluid		Unlubricated air. Lubrication, if used, must be continuous		
Bores	mm	16; 20; 25		
Design		Aluminium liner chamfered on the heads		
Standard strokes +	mm	Ø 16: from 1 to 200		
	mm	Ø 20 to 25: from 1 to 500		
Versions		Double-acting, Double Through-rod (for both there are magnetic and non magnetic versions)		
Forces generated at 6 bar thrust/retraction		See cylinder "General technical data" at the beginning of the chapter		
Weights		See cylinder "General technical data" at the beginning of the chapter		
Inrush pressure		Ø 16	Ø 20	Ø 25
single piston rod	bar	0.6	0.6	0.6
through-rod	bar	0.8	0.8	0.8
Notes		The standard version is lacking of the head nut.		
		Use of fittings with a taper thread is NOT recommended.		
		+ Maximum recommended strokes. Higher values can create operating problems		

COMPONENTS

- ① PISTON ROD: C45 steel or stainless steel, thick chromed
- ② HEADS: high resistance technopolymer
- ③ PISTON ROD GASKET: polyurethane
- ④ GUIDE OPERATOR: technopolymer
- ⑤ BARREL: drawn anodized aluminium alloy
- ⑥ PISTON GASKET: polyurethane
- ⑦ MAGNET: plasteodymium
- ⑧ STATIC O-RINGS: NBR
- ⑨ COVER PLATE: technopolymer

