ISO 6432 MINI-CYLINDER SERIES STD

Mini-cylinders to ISO 6432 with a chamfered stainless steel barrel. The cylinder head dimensions have been reduced for some sizes so that they can be used where there are space restrictions. Can be used with different types of sensors.

Available in various versions with a wide range of accessories:

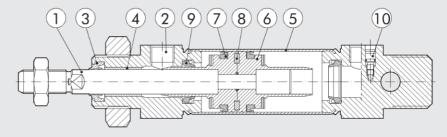
- with or without magnet
 single acting extended, retracted or through piston rod
- · double acting, single or through piston rod
- with pneumatic cushioning (Ø 16-20-25)
- gaskets made of NBR, POLYURETHANE, and FKM/FPM (for high temperatures), and low-temperature gaskets
- special executions on request
- · fixing accessories, guide units and mechanical rod locking

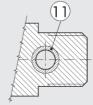


TECHNICAL DATA		Polyurethane	NBR			FK/	M/FPM		Low temperature
Max operating pressure	bar				1	0			
	MPa					1			
Temperature range	°C	-10 to +80	-10 to +8	-				c cylinders)	-35 to +80
Fluid			Unlubric	ated air.	Lubrication	, if used, r	nust be co	ontinuous	
Bores	mm				8; 10; 12;		5		
Design						ed barrel			
Standard strokes +	mm	Single-acting:			o 25 stroke				
		Double-acting:			o 10 stroke				
					to 16 strok				
					to 25 strok				
		Double-acting, cushior			strokes fro				
					to 25 strok				
Versions			ole-acting, Doub						
			ugh-rod, Throug						
Magnet for sensors		All	versions come of					magnet on req	uest.
Inrush pressure			Ø8	Ø 10	Ø 12	Ø 16	Ø 20	Ø 25	
single piston rod	bar		0.8	8.0	0.8	0.6	0.6	0.6	
through-rod	bar		1	1	1	0.8	0.8	0.8	
Forces generated at 6 bar thrust/retraction								of the chapter	
Weights								of the chapter	
Notes									on-lubricated air.
		+ M	aximum recomm	ended st	rokes. High	ner values	can creat	e operating pro	blems
		+ M	aximum recomm	ended st	rokes. High	ner values	can creat	e operating pro	blems

COMPONENTS

- 1) PISTON ROD: C45 steel or stainless steel, thick chromed
- 2 HEAD: anodised aluminium alloy
- 3 PISTON ROD GASKET: polyurethane, NBR or FKM/FPM
- 4 GUIDE BUSHING: steel strip with bronze and PTFE insert
- ⑤ BARREL: AISI 304 steel
- 6 HALF-PISTON: acetal resin
- PISTON GASKET: polyurethane, NBR or FKM/FPM
- 8 MAGNET: plastoneodymium
- O CUSHIONING GASKET: NBR or FKM/FPM
- 10 NEEDLE: OT 58 with needle out movement safety system even when fully open
- 1 BUSHING (optional): self-lubricating bronze

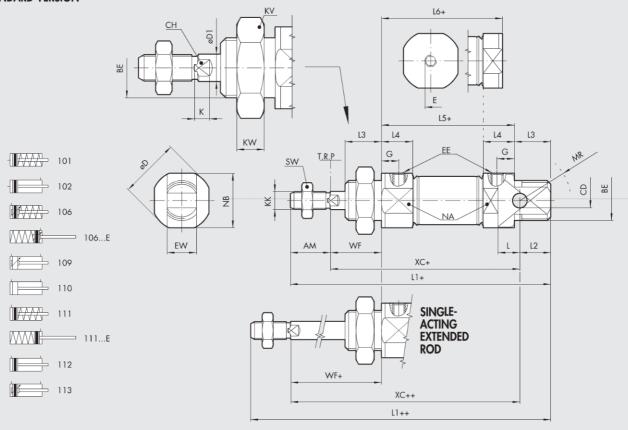






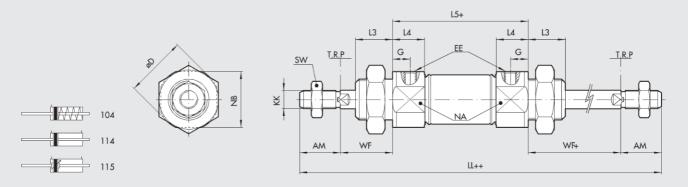
DIMENSIONS





THROUGH-ROD VERSION

+ = ADD STROKE ++= ADD TWICE THE STROKE



Ø	AM +0.0;-2.0	BE	øCD ^{H9}	øD	øD1	E	G	EE	EW d13	L	LL	LI	L2	L3	L4	L5	L6	KK	XC±1	WF ±1,	² KW	ΚV	MR	NA	NB	SW	CH	K
8	12	M12x1.25	4	16.7	4	M5	6	M5	8	6.5	102	86	10	12	10	46	46	M4	64	16	7	19	12	15	15	7	3	3
10	12	M12x1.25	4	16.7	4	M5	6	M5	8	6.5	102	86	10	12	10	46	46	M4	64	16	7	19	12	15	15	7	3	3
12	16	M16x1.5	6	19	6	M5	6	M5	12	9	125	104	13	17	10	49	47	M6	75	22	8	24	16	17	17	10	5	3.5
16	16	M16x1.5	6	19.7	6	1/8	6	M5	12	9	132	111	13	17	10	56	53	M6	82	22	8	24	16	18	18	10	5	3.5
20	20	M22x1.5	8	27.9	8	1/8	8	G 1/8	16	12	156	129	14	17	15.5	68	61	M8	95	24	7	32	18	24	24	13	7	4.6
25	22	M22x1.5	8	33	10	1/8	9	G 1/8	16	12	173	143	17	20	17.1	73	66.5	M10x1.25	104	28	7	32	21	30	30	17	8	5

VERSION 106...E (SINGLE-ACTING EXTENDED ROD, CUSHIONED) VERSION 111...E (SINGLE-ACTING EXTENDED ROD)

Ø	Stroke	LI	L5	XC	Ø	Stroke	LI	L5	XC	Ø	Stroke	L1	L5	XC
16	0 - 25	115.4	60.4	86.4	20	0 - 25	133.4	72.4	99.4	25	0 - 25	146.1	76.1	107.1
16	26 - 50	135.4	80.4	106.4	20	26 - 50	154.4	93.4	120.4	25	26 - 50	169	99	130

KEY TO CODES

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

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 extended rod, cosmona dramatic 111... single-acting 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