

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:

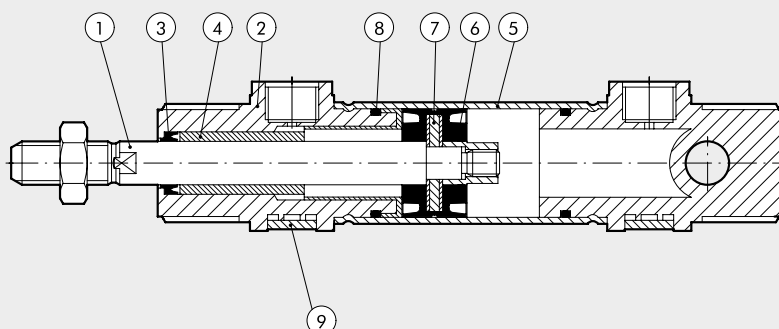
- with or without magnet
- double acting, single or through rod
- gaskets made of POLYURETHANE
- fixing accessories and guide units.



TECHNICAL DATA			Ø16	Ø20	Ø25
Max operating pressure	bar			10	
	MPa			1	
	psi			145	
Temperature range	POLYURETHANE	°C		-10 to +60	
Design				Aluminium liner chamfered on the heads	
Fluid				Unlubricated air. Lubrication, if used, must be continuous	
Standard strokes †		mm	1 to 200		1 to 500
Versions				Double-acting, Double Through-rod	
Sensor magnet				Available magnetic and non-magnetic versions.	
Inrush pressure	single piston rod	bar		0.6	
	through-rod	bar		0.8	
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	
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	

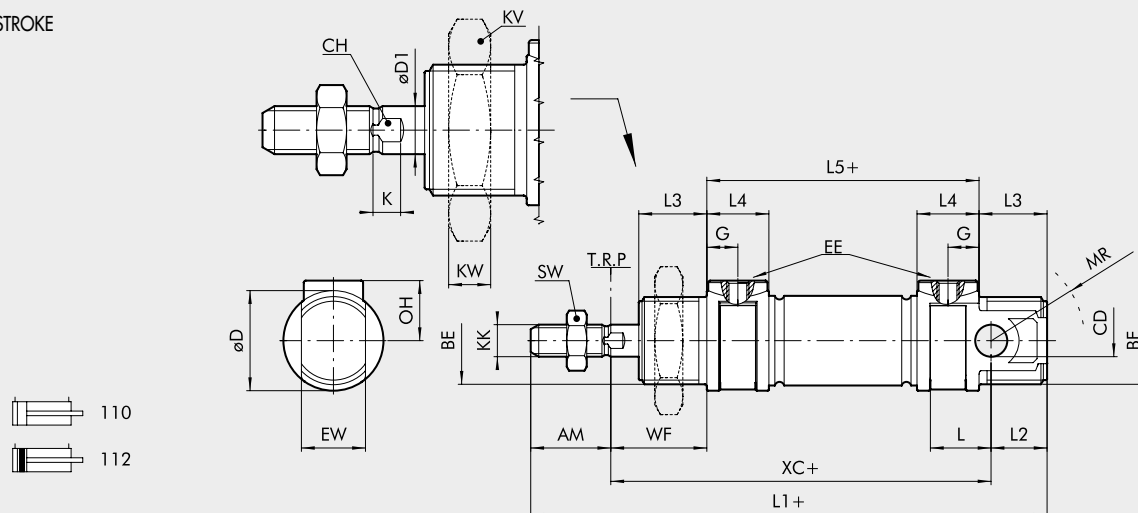
COMPONENTS

- 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: plastoneodymium
- ⑧ STATIC O-RINGS: NBR
- ⑨ COVER PLATE: technopolymer



DIMENSIONS OF STANDARD VERSIONS

+ = ADD STROKE

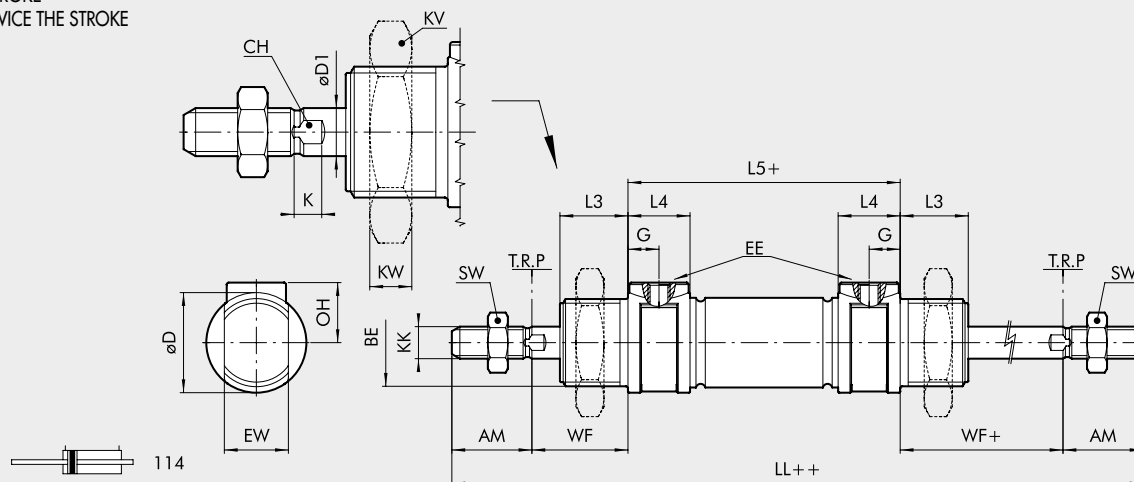


																									MAX LOCKING TORQUE [Nm]		
Ø	AM	BE	CD (H9)	øD	øD1	G	EE	EW (d13)	OH	L	L1	L2	L3	L4	L5	KK	XC(±1)	WF	KW	KV	MR	SW	CH	K	Ø	BE (front/rear)	EE
16	16	M16x1.5	6	21	6	4.7	M5	12	12	11	111	13	17	9.5	56	M6	82	22	8	24	16	10	5	3.5	16	12/8	1.2
20	20	M22x1.5	8	25	8	7.7	1/8"	16	16	15	129	14	17	15.5	68	M8	95	24	7	32	18	13	7	4.6	20	22/15	3
25	22	M22x1.5	8	30	10	7.7	1/8"	16	17	15	143	17	20	15.5	73	M10x1.25	104	28	7	32	21	17	8	5.5	25	22/15	3

DIMENSIONS OF STANDARD VERSIONS WITH THROUGH-ROD

+ = ADD STROKE

++ = ADD TWICE THE STROKE



																			MAX LOCKING TORQUE [Nm]		
Ø	AM	BE	øD	øD1	G	EE	OH	LL	L3	L4	L5	KK	WF	KW	KV	SW	CH	K	Ø	BE	EE
16	16	M16x1.5	21	6	4.7	M5	12	132	17	9.5	56	M6	22	8	24	10	5	3.5	16	12	1.2
20	20	M22x1.5	25	8	7.7	1/8"	16	156	17	15.5	68	M8	24	7	32	13	7	4.6	20	22	3
25	22	M22x1.5	30	10	7.7	1/8"	17	173	20	15.5	73	M10x1.25	28	7	32	17	8	5.5	25	22	3

KEY TO CODES

CYL	110 TYPE	3	16 BORE	0	020 STROKE	C MATERIAL	P GASKETS
	110 DA non-magnetic minicylinder	● 3 TP heads (standard)	■ 16	0 Standard	For the maximum suppliable strokes, look at the technical data	C C45 chrome piston rod	P Polyurethane
	112 DAM minicylinder	4 TP heads (standard) + head nut	20	S Non-magnetic		X Stainless piston rod	
	114 DAM through-rod minicylinder		25				

DA: Double-acting (non-cushioned, not magnetic).

DAM: Double action magnetic (unless otherwise specified) not cushioned.

As standard the cylinders are already No stick-slip version.

● This version don't provide the nut on the head.

■ Ø 16 will be only in version with stainless rod (X).