



Series 1200 Tecno-MIR

Construction characteristics

Barrel	nylon 66 reinforced with glass fibres
Fixing devices	steel painted / stainless steel AISI 304
Forks	zinc plated steel / stainless steel AISI 304
Piston seals	NBR oil-resistant rubber seal
Rod seal	PUR
Pistons	aluminium
Piston rod	C43 chromed (non magnetic piston version) stainless steel (magnetic piston version)
End caps	nylon 66 reinforced with glass fibres

Operational characteristics

Fluid	filtered air, preferably lubricated
Max. working pressure	8 bar
Working temperature	-5 °C ... +50 °C

Please follow the suggestions below to ensure a long life for these cylinders:

- use clean and lubricated air.
- correct alignment during assembly with regard to the applied load so as to avoid radial components or bending the rod.
- avoid high speeds together with long strokes and heavy loads: this would produce kinetic energy which the cylinder cannot absorb, especially if used as a limit stop (in this case use mechanical stop device).
- evaluate the environmental characteristics of cylinder used (high temperature, hard atmosphere, dust, humidity etc.).

Please note: air must be dried for applications with lower temperature.

Use hydraulic oils H class (ISO VG32) for correct continued lubrication.

Standard strokes

Double acting version

Ø12:

15 - 25 - 50 - 75 - 80 - 100 - 125 - 150 - 160 - 200 mm

Ø16:

15 - 25 - 50 - 75 - 80 - 100 - 150 - 160 - 200 - 250 mm

Ø20 - Ø25:

15 - 25 - 50 - 75 - 80 - 100 - 150 - 160 - 200 - 250 - 300 mm

On request are available strokes up to:

Ø12: 200 mm

Ø16: 250 mm

Ø20 - Ø25: 300 mm

Maximum fitting torque

Bore	Thread	Maximum torque (Nm)
Ø12	M5	1
Ø16	M5	1
Ø20	G 1/8"	4
Ø25	G 1/8"	4

Weight charts

Weight table series TECNO MIR 1230 - 1231

Bore		Ø12	Ø16	Ø20	Ø25
Weight (g)	Stroke 0	50	65	120	160
	every 10 mm	3,75	4	6,5	9

Weight table series TECNO MIR 1232

Bore		Ø12	Ø16	Ø20	Ø25
Weight (g)	Stroke 0	60	75	180	200
	every 10 mm	7	8,5	10	20

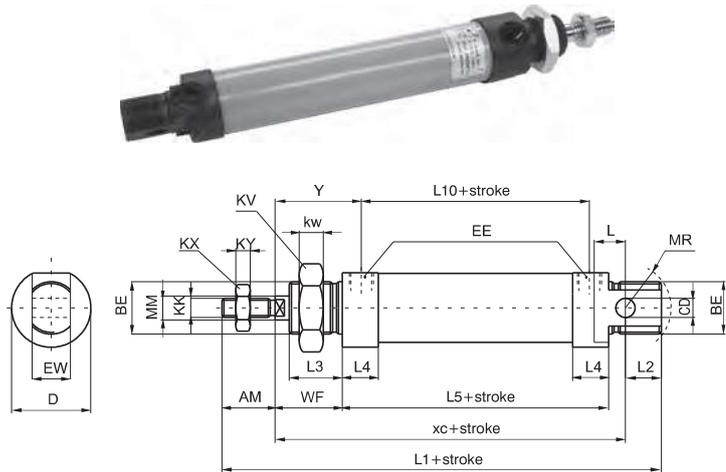
PNEUMATIC ACTUATION

Basic version

Coding: 1230.Ø.stroke.▼

Ø	BORE
	12 = Ø12
	16 = Ø16
	20 = Ø20
▼	VERSION
	= non magnetic piston
	M = magnetic piston

Standard version, fully complying with ISO standards. Can use all available mountings.

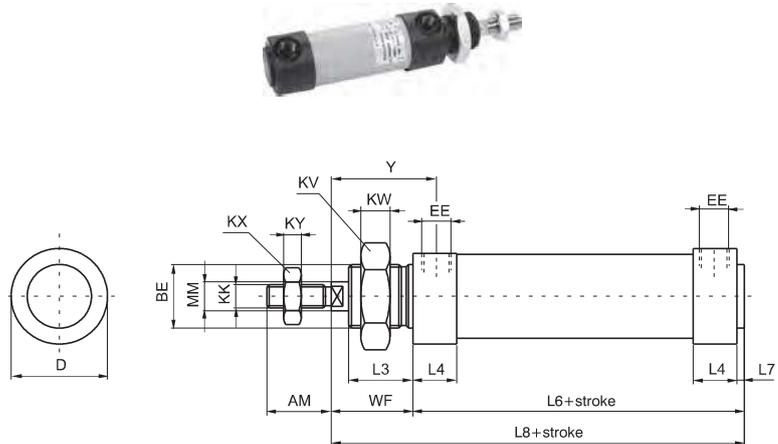


Without rear eye version

Coding: 1231.Ø.stroke.▼

Ø	BORE
	12 = Ø12
	16 = Ø16
	20 = Ø20
▼	VERSION
	= non magnetic piston
	M = magnetic piston

This version derived from standard version 1230 and not included in ISO standard. Not having a rear eye it is shorter. The inlet connection is lateral on the rear caps (like on the front caps).



Through rod cylinder version

Coding: 1232.Ø.stroke.▼

Ø	BORE
	12 = Ø12
	16 = Ø16
	20 = Ø20
▼	VERSION
	= non magnetic piston
	M = magnetic piston

Through rod model, dimensions as for the 1230 (except the rod).

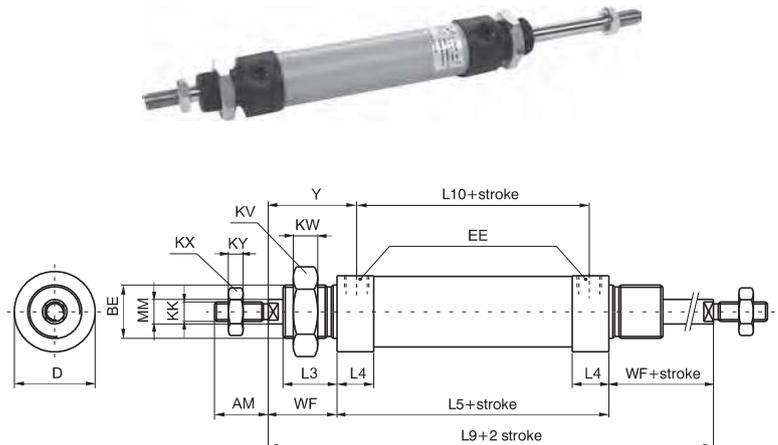


Table of dimensions

Bore	AM (-0,2)	BE	CD (H9)	D (h11)	EE	EW (d13)	KK (6g)	KV	KW	KX	KY	L	L1 (±1)	L2	L3	L4	L5 (±1)	L6	L7	L8	L9 (±1,2)	L10 (±1)	MM (f7)	WF (±1,2)	XC (±1)	Y (±1)
12	16	M16X1,5	6	19	M5	12	M6X1	22	6	10	4	9	105	14	17	13,5	50	52	2	74	94	41	6	22	75	26,5
16	16	M16X1,5	6	23	M5	12	M6X1	22	6	10	4	9	111	13	17	14,5	56	58	2	80	100	45	6	22	82	27,5
20	20	M22X1,5	8	28,5	G1/8"	16	M8X1,25	30	7	13	5	12	130	15	18	20,5	68	70,5	2,5	94,5	116	52	8	24	95	32
25	22	M22X1,5	8	31,5	G1/8"	16	M10X1,25	30	7	17	6	14	140	14	22	20	68	70,5	2,5	98,5	124	52	10	28	104	36