

Construction characteristics

End covers	hard anodised aluminium		
Barrel	stainless steel AISI 304		
Piston rod	stainless steel		
Piston	brass (ø8-10-12) aluminium (ø16-20-25)		
Seals	Standard: NBR Oil resistant rubber, PUR Piston rod seals (HNBR or FPM seals available upon request)		
Mounting	steel painted in cataphoresis		
Forks	zinc plated steel		
Single-acting springs	cting springs C98 zinc plated steel for springs		
Cushioning length	ø <u>16</u> - <u>20</u> - <u>25</u> - <u>32</u> mm <u>15</u> - <u>18</u> - <u>18</u> - <u>18</u>		

Technical characteristics

Fluid	filtered air and preferably lubricated
Maximum working pressure	10 bar
Working temperature	-5°C - +70°C with standard seals magnetic or non magnetic piston
	-5°C - +80°C with FPM seals magnetic piston
	-5°C - +80°C with HNBR seals magnetic piston
	-5°C - +120°C with HNBR seals non magnetic piston
	-5°C - +150°C with FPM seals non magnetic piston

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.

Our Technical Department will be glad to help.

Standard strokes

ø 8 and ø 10

15-25-50-75-80-100 mm

ø 12 and ø 16

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

ø 20 and ø 25

15-25-50-75-80-100-150-160-200-250-300-320-350-400 mm

a 32

 $15 - 25 - 50 - 75 - 80 - 100 - 150 - 160 - 200 - 250 - 300 - 320 - 350 - 400 - 450 - 500 \, mm$

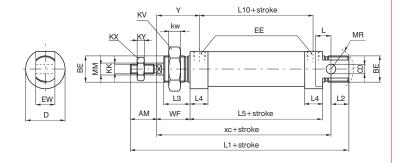
Minimum and maximum springs load

Bore	Ø8	Ø10	Ø12	Ø16	Ø20	Ø25	Ø32
Min. load(N)	2.2	2.2	4	7.5	11	16.5	23
Max. load(N)	4.2	4.2	8.7	21	22	30.7	52.5

Ordering code	Description
1280.Ø.stroke 1291.Ø.stroke 1292.Ø.stroke 12–Ø.stroke.A 12–Ø.stroke.M	Basic version Basic version front spring (max stroke 50 mm) Basic version rear spring from Ø16 (max stroke 50 mm) Adjustable cushioning (from Ø16) Magnetic piston
12Ø.stroke.A.M 12Ø.strokeT 12Ø.strokeV	



Standard version, fully compliant with ISO standards. Can use all available mountings. For single acting type, the maximum stroke is 50 mm., after which overall dimensions increase in length to an extent not proportional to the stroke (and in any case not longer than stroke 100).



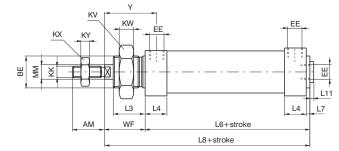
Without rear eye version

Ordering code	Description
1281.Ø.stroke 1293.Ø.stroke 1294.Ø.stroke 12Ø.stroke.A 12Ø.stroke.M 12Ø.stroke	



Version derived from standard version 1260 and not included in ISO standard. Not having a rear eye it is shorter. Rear inlet connection is at 90 like the front one, in line and plugged. The considerations made for the basic type 1280 apply for all single-acting types.





Push/Pull rod version

Ordering code	Description
1282.Ø.stroke 1282.Ø.stroke.M 1282.Ø.stroke.A 1282.Ø.stroke.A.M 1282.Ø.stroke T 1282.Ø.stroke V	



This version having rods coming out from both end plates with overall dimensions, except for the rod, equal to 1280 version. This version is not suitable for Ø8 and Ø10 due to difficulty in anchoring the pistons to rods.

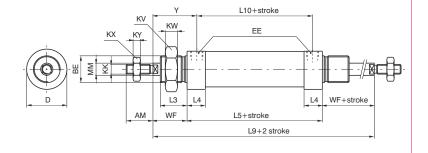




Table of dimensions

Series 1200

		Bore								
		8	10	12	16	20	25	32		
AM (-0,2	2)	12	12	16	16	20	22	20		
BE		M12X1,25	M12X1,25	M16X1,5	M16X1,5	M22X1,5	M22X1,5	M30X1,5		
CD (H9))	4	4	6	6	8	8	12		
D (h11)		16	16	20	21	27	30	38		
EE		M5	M5	M5	M5	G1/8"	G1/8"	G1/8"		
EW (d13	3)	8	8	12	12	16	16	26		
KK (6g)		M4X0,7	M4X0,7	M6X1	M6X1	M8X1,25	M10X1,25	M10X1,25		
KV		17	17	22	22	30	30	42		
KW		5,5	5,5	6	6	7	7	8		
KX		7	7	10	10	13	17	17		
KY		3	3	4	4	5	6	6		
L		6	6	9	9	12	13	13		
L1 (±1)	*	86	86	105	111	130	141	139		
L2		10	10	14	13	15	15	14		
L3		12	12	17	17	18	22	22		
L4		9	9	9	11	15,5	15	14,5		
L5 (±1)	*	46	46	50	56	68	69	69		
L6	*	48	48	52	58	70,5	71,5	71,5		
L7		2	2	2	2	2,5	2,5	2,5		
L8	*	64	64	74	80	94,5	99,5	99,5		
L9 (±1,2	2) *	78	78	94	100	116	125	125		
L10 (±1)) *	37	37	41	45	52,5	53	54,5		
L11		1,5	1,5	1,5	1,5	2	2	2		
MM (f7)		4	4	6	6	8	10	12		
MR		12	12	16	16	18	19	22		
WF (±1,	,2)	16	16	22	22	24	28	28		
XC (±1)	*	64	64	75	82	95	104	105		
Y (±1,2))	20,5	20,5	26,5	27,5	32	36	35		
Stroke to	olerance:	until stroke 100 +	1,5 mm, beyond +2	mm						
Veight	stroke 0	30	35	65	80	160	200	310		
gr. ev	ery 10mm	2	2,5	4	5	7,5	11,5	18		
	ns of the rear eye v	versions: ersion								
Veight	stroke 0	25	30	60	75	150	185	290		
gr. ev	ery 10mm	2	2,5	4	5	7,5	11,5	18		
Push/pu	ıll rod vers	sion	,	I .		,	,			
Veight s	stroke 0	35	40	75	95	200	250	370		
gr. ev	ery 10mm		3	6	7	10,5	15,5	24		

Dimensions marked with * do not increase proportionally to stroke for rear spring version (over 25 mm stroke).