

## General

Pneumatic grippers from the 6300 series are typically used in complex systems such as assembly machines, robots, manipulators etc.

This series covers the wide range requirements of this sector, allowing a variety of applications.

The range includes grippers equipped with holding fingers operating from  $-10^{\circ}$  to  $+30^{\circ}$  degrees, with  $180^{\circ}$  degree opening, or a parallel guided gripper with great rigidity throughout the stroke.

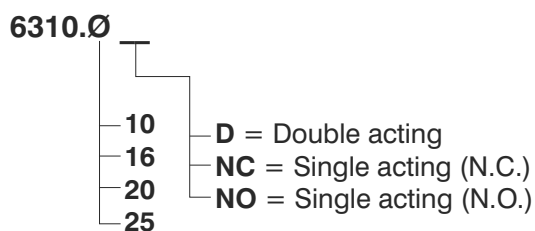
The parallel grippers cater for larger openings (three different strokes for each diameter) with synchronised operation via a pinion-rack system with high strength thanks to a double piston mechanism.

For the typical application of supplying a piece upon to a machine tool, make provision for an automatic three-pronged movement carried along by a wedge mechanism, containing the elevated force dimensions.

The holding fingers can have a tolerance reference as a precise fixing device for the catching mechanism. Every type of "hand" offers different functional levels of performance at varying diameters and lengths, secondary to the application by the "fingers".



### Ordering code

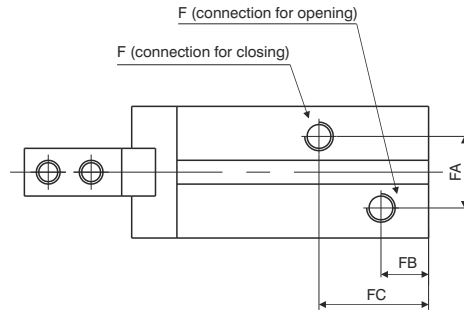
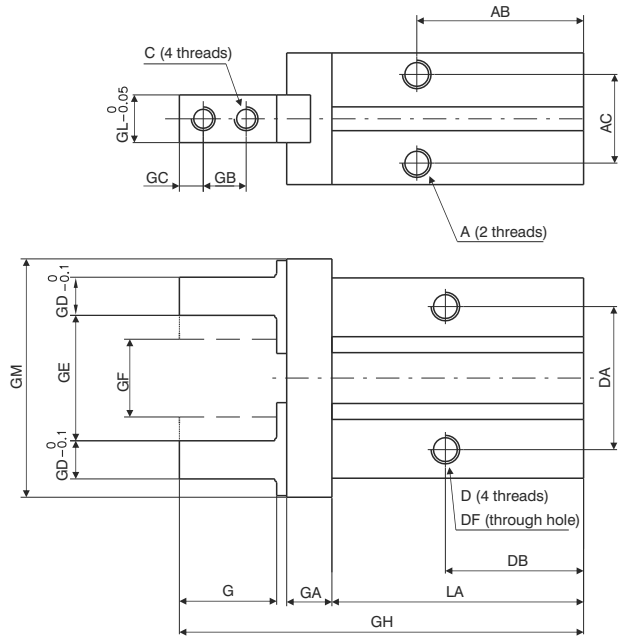
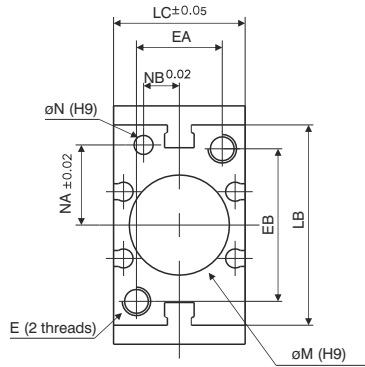


### Construction characteristics

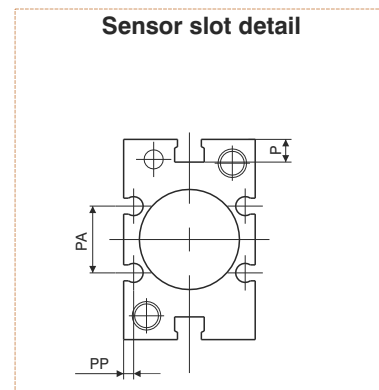
Body	aluminium
Piston	aluminium or stainless steel (depending on the bore)
Fingers	steel
End cover	aluminium
Seals	oil resistant NBR rubber

### Technical characteristics

Fluid	filtered and non lubricated air
Working pressure	double acting : 2 - 7 bar (for Ø10) - 1 - 7 (for other bores) single acting : 3.5 - 7 bar (for Ø10) - 2.5 - 7 ( for other bores)
Operating temperature	-5°C - +70°C
Maximum operating frequency	from Ø10 to Ø25, 180 cycles/minute

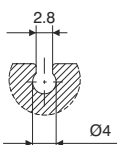


Bore		Ø10	Ø16	Ø20	Ø25
A		M3x0.5	M4x0.7	M5x0.8	M6x1
	Useful depth	6	4.5	8	10
AB		27	30	35	36.5
AC		11.4	16	18.6	22
C		M2.5x0.45	M3x0.5	M4x0.7	M5x0.8
D		M3x0.5	M4x0.7	M5x0.8	M6x1
	Useful depth	5.5	8	10	12
DA		16	24	30	36
DB		23	24.5	29	30
ØDF		2.6	3.4	4.3	5.1
E		M3x0.5	M4x0.7	M5x0.8	M6x1
	Useful depth	6	8	10	12
EA		12	15	18	22
EB		18	22	32	40
F		M3x0.5	M5x0.8	M5x0.8	M5x0.8
FA		11	13	15	20
FB		9	7.5	10	10.7
FC		19	19	23	23.5
G		12	15.5	20	25
GA		6	7.5	9.5	11
GB		5.7	7	9	12
GC		3	4	5	6
GD		4	5	8	10
GE		15.2	20.9	26.3	33.3
GF		11.2	14.9	16.3	19.3
GH		57	67.5	84.8	102.7
GL		5	8	10	12
GM		29	38	50	63
LA		37.8	42.5	52.8	63.6
LB		23	30.6	42	52
LC		16.4	23.6	27.6	33.6
ØM <sup>H9</sup>		11	17	21	26
	Useful depth	2	2	3	3.5
ØN <sup>H9</sup>		2	3	4	4
	Useful depth	3	3	4	4
NA		7.6	11	16.8	21.8
NB		5.2	6.5	7.5	10
P		5.4	5.8	9	11.5
PA		/	11.6	14	19
PP		/	2.1	2.1	3.5
Weight (gr)		55	120	230	425



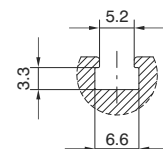
Ø16 - Ø25

Sensor slot detail type "C"



Ø10 - Ø25

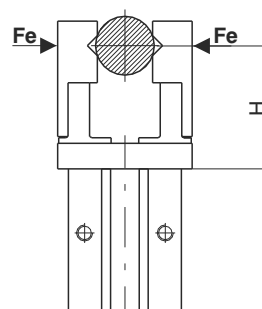
Sensor slot detail type "B"



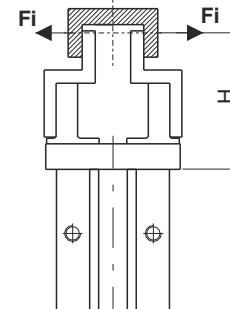
**Holding force (N) (pressure 5 bar, holding point H=20 half stroke)**

Version	Force	Bore			
		Ø10	Ø16	Ø20	Ø25
Double acting	Fe	9.8	30	42	65
	Fi	17	40	66	104
Single acting	NO	Fe	6.3	24	28
	NC	Fi	12	31	56

Fe = external holding force      Fi = internal holding force



**EXTERNAL HOLD**



**INTERNAL HOLD**

