

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° to $+30^{\circ}$ degrees, with 180° 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

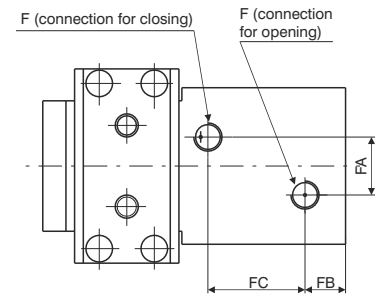
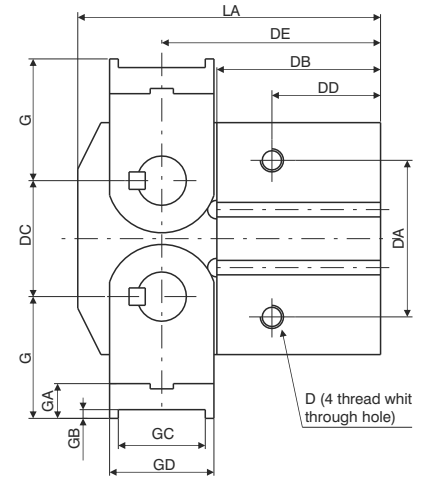
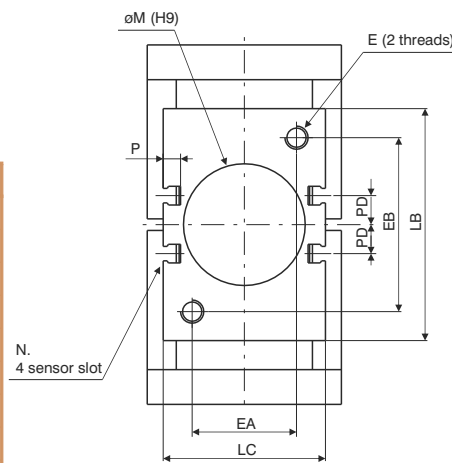
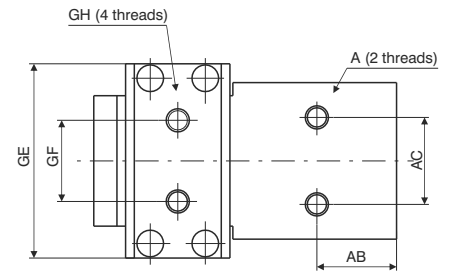
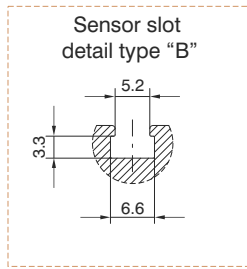
6303.Ø.D
 — F = Fingers, end fixing
 — L = Fingers, side fixing
 — 20
 — 25
 — 32
 — 40
 — 50

Construction characteristics

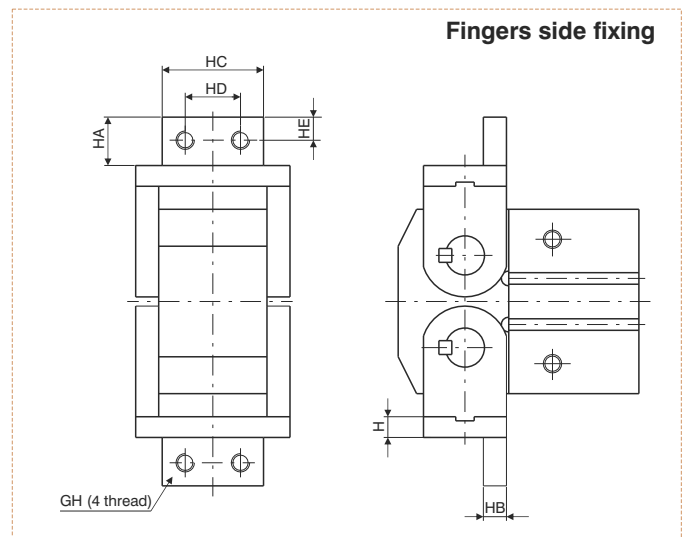
Body	aluminium
Piston	aluminium
Fingers	steel
End cover	aluminium

Technical characteristics

Function	double acting
Fluid	filtered and non lubricated air
Working pressure	1.5 - 7 bar
Working temperature	-5C° - +70C°
Opening total stroke	-5° - 180°
Maximum operating frequency	from Ø20 to Ø25, 60 cycles/minute from Ø32 to Ø50, 30 cycles/minute



Bore		Ø20	Ø25	Ø32	Ø40	Ø50
A		M5	M6	M6	M8	M10
	Useful depth	7	10	10	15	20
AB		17	20	21	27.5	36
AC		20	24	24	30	40
D		M5	M6	M6	M8	M10
	Useful depth	10	12	12	16	20
DA		27	34	42	54	70
DB		35	40	47	56.5	69
DC		18	24	30	40	56
DD		23	27	29	37.5	48
DE		45	51	61.5	75.5	96
E		M5	M6	M6	M8	M10
	Useful depth	10	12	12	15	20
EA		26	30	30	36	40
EB		26	30	45	60	80
F		M5	M5	G1/8	G1/8	G1/4
FA		12	16	20	20	30
FB		9	10	13	14	16
FC		20	23	25	33.5	44
G		23	27	32	42	58
GA		7	8	9	12	17
GB		2	2	2	3	4
GC		12	17	23	30	44
GD		16	21	27	36	52
GE		41	45	51	67	85
GF		18	20	20	28	38
GH		M4	M5	M6	M8	M10
H		5	6	7	9	13
HA		10	12	14	21	24
HB		5	6	7	10	13
HC		28	30	34	44	58
HD		14	16	18	24	30
LA		60	69	83.5	104.5	136
LB		36	45	58	80	112
LC		36	40	45	56	66
ØM ^{H9}		21	26	34	42	52
	Useful depth	3	3	4	4	5
P		6	5.5	5.5	6	6
PD		4	4.5	11	10	13
Weight (gr)		300	500	900	2100	5000



Gripping force

NOTE:

Bore selection should be made considering a holding force 10 to 20 times the component weight.
In case of acceleration/deceleration a further margin of safety should be considered.

Bore (Nm)	Ø20	Ø25	Ø32	Ø40	Ø50
	0.3	0.7	1.6	3.7	8.3

