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° 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

6302.Ø.D

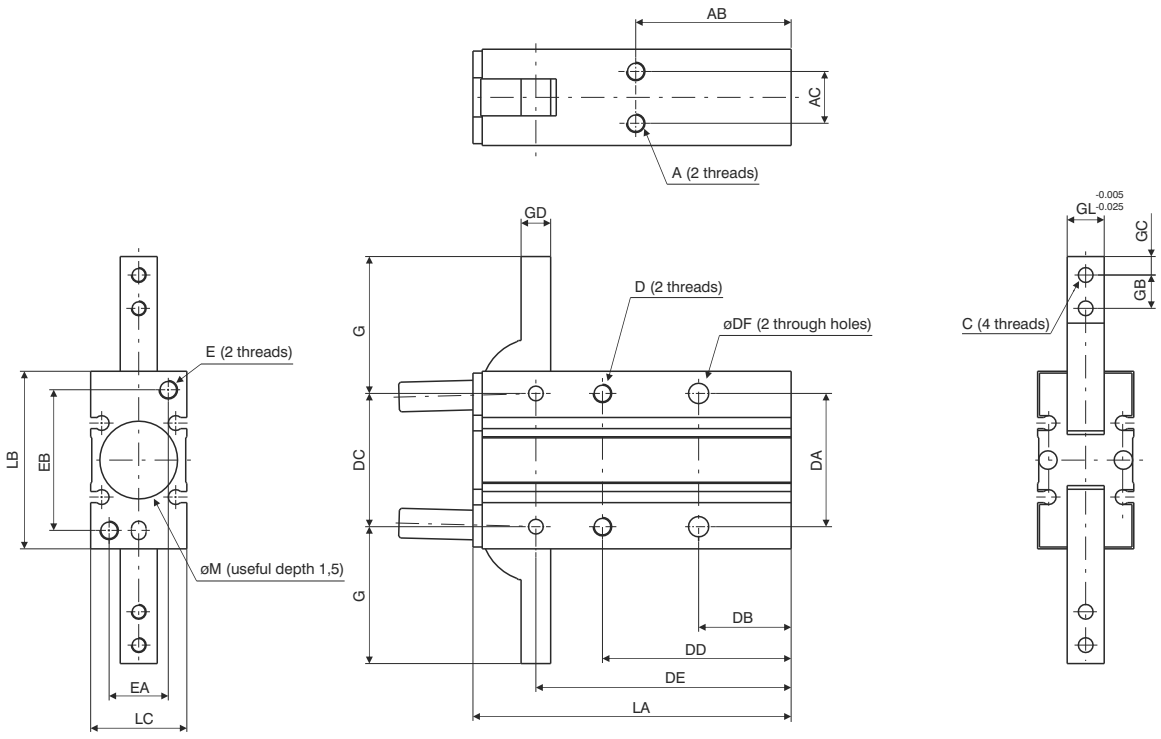
- **10**
- **16**
- **20**
- **25**

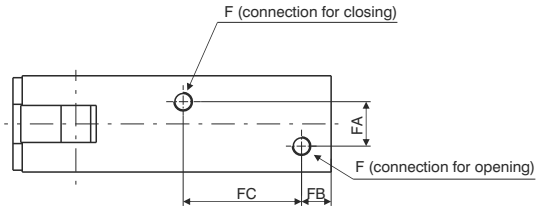
Construction characteristics

Body	aluminium
Piston	aluminium
Fingers	steel
End cover	aluminium

Technical characteristics

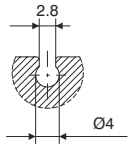
Function	double acting
Fluid	filtered and non lubricated air
Working pressure	1 - 6 bar
Working temperature	-5C° - +70C°
Opening total stroke	-3° - 180°
Maximum operating frequency	from Ø10 to Ø25, 60 cycles/minute



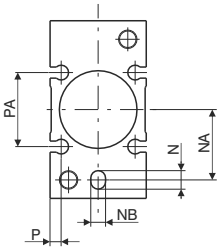


Bore		Ø10	Ø16	Ø20	Ø25
A		M3x0.5	M4x0.7	M5x0.8	M6x1
	Useful depth	4	5	8	10
AB		30	33	42	50
AC		9	12	14	16
C		M3x0.5	M3x0.5	M4x0.7	M5x0.8
D		M3x0.5	M4x0.7	M5x0.8	M6x1
	Useful depth	6	8	10	12
DA		24	30	36	42
DB		18	20	25	30
DC		22	28	36	45
DD		35	41	51	60
DE		47.5	55.5	69	86
DF		3.4	4.5	5.5	6.6
E		M3x0.5	M4x0.7	M5x0.8	M6x1
	Useful depth	6	8	10	12
EA		9	12	16	18
EB		24	30	38	46
F		M5x0.8	M5x0.8	M5x0.8	M5x0.8
FA		3	8	2	14
FB		7	7	8	8
FC		23	25	32	42
G		23.5	28.5	37	45
GB		6	7	9	12
GC		3	4	5	6
GD		4	5	8	10
GL		6	8	10	12
LA		58	69	86	107
LB		30	38	48	58
LC		15	20	26	30
N		4	4	5	5
	Useful depth	3	3	4	4
NA		9	15	19	23
ØM H9		11	17	21	26
ØNB H9		3	3	4	4
P		2	2,5	3	3
PA		13	18	20	24
Weight (gr)		70	150	320	550

Sensor slot detail type “C”



Back view detail



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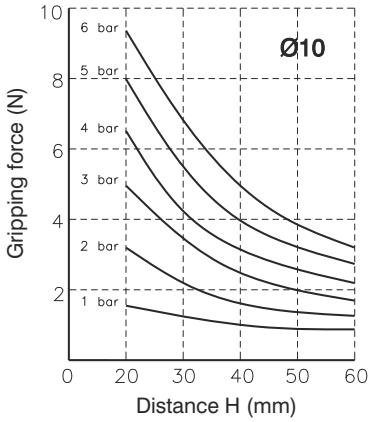
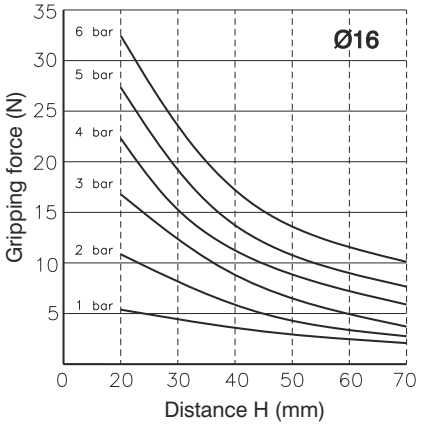
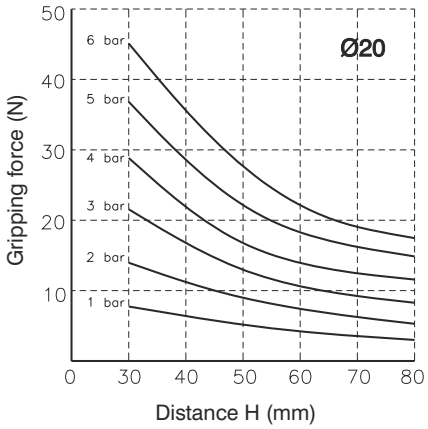
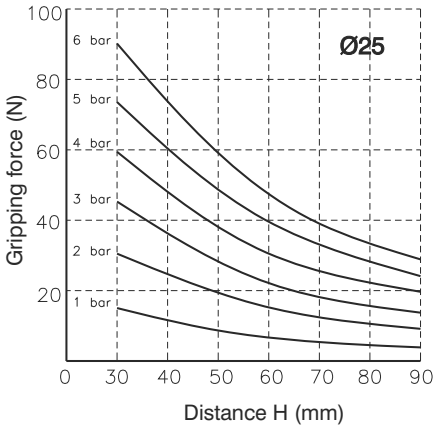
Gripping force 5 bar (Nm)

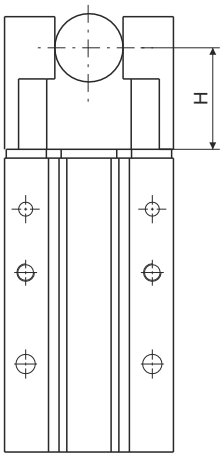
Bore	Ø10	Ø16	Ø20	Ø25
(Nm)	0.16	0.54	1.1	2.28



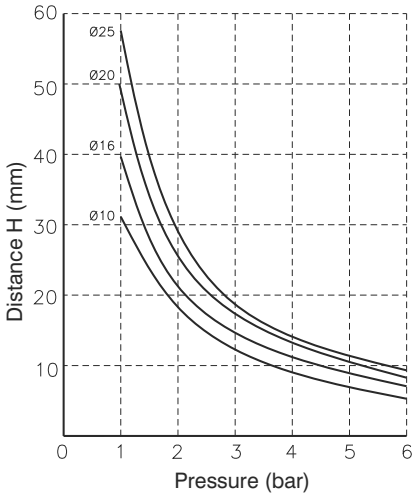


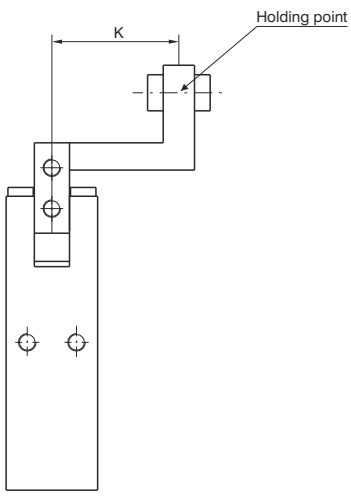






Confirmation of Holding point





Applications where the holding point is outside the recommended parameters shown on the above graph might affect the product life.