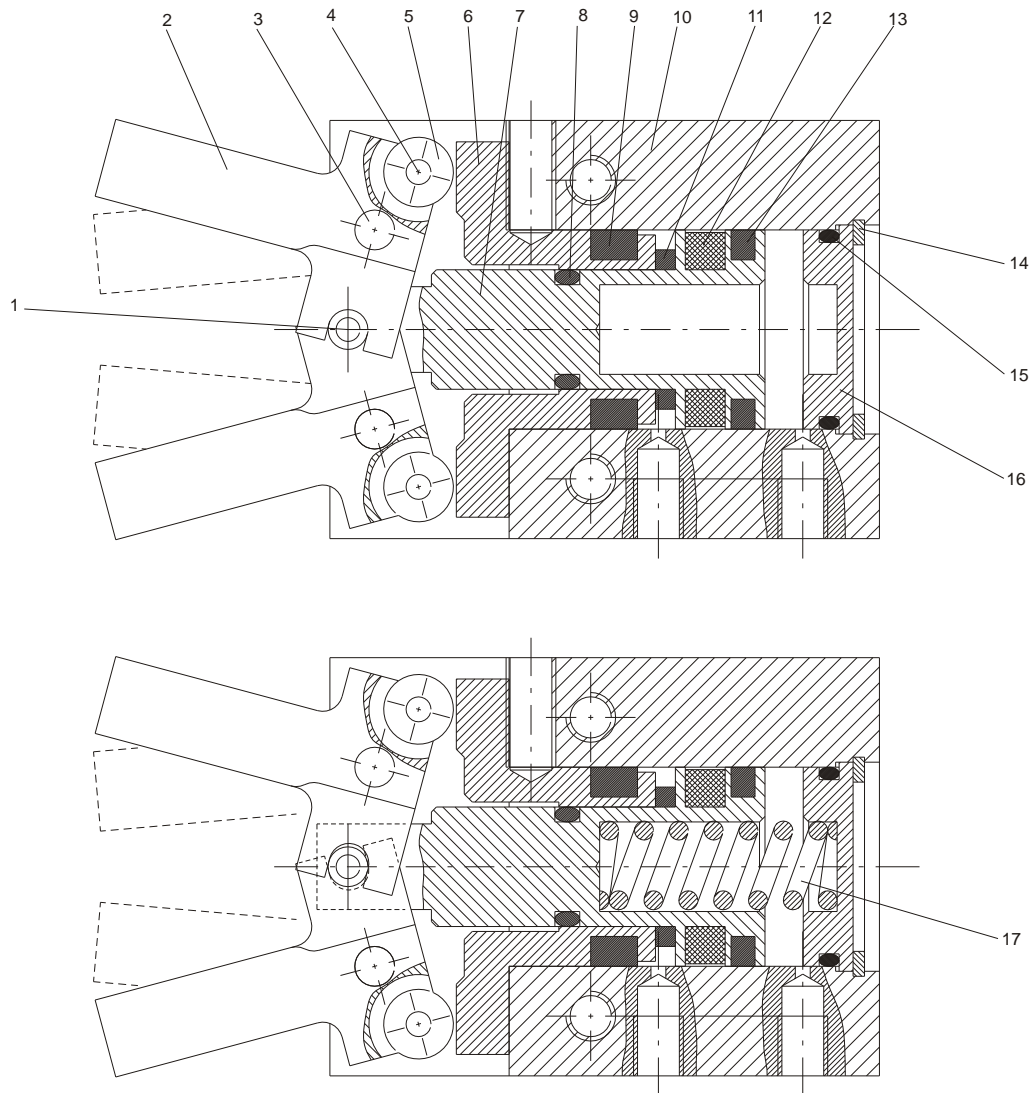


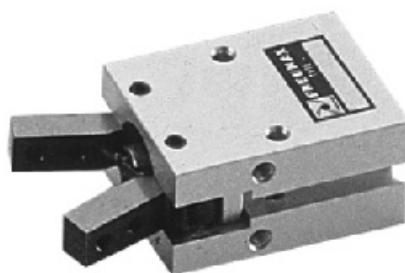


# PNEUMATIC GRIPPERS

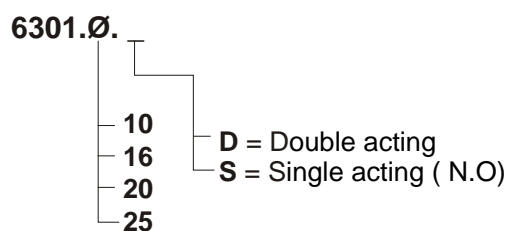
	Page
<b>Angular grippers</b>	
Standard version - series 6301	3.1
180° Angular gripper - series 6302	3.7
180° angular gripper, rack & pinion style series 6303	3.13
<b>Parallel style grippers</b>	
Standard version - series 6310	3.19
Wide opening - series 6311	3.25
3 fingers parallel style ( air chuck) series 6312	3.31
Magnetic sensor	3.39



Pos.	Item	Qty.	Pos.	Item	Qty.
1	Central pin	1	10	Body	1
2	Fingers	2	11	Cushioning washer	1
3	Level shaft	2	12	Magnet	1
4	Side roller	2	13	Piston seal	1
5	Supplementary thrust roller	2	14	Circlip	1
6	Supplementary thrust piston	1	15	End cover seal	1
7	Piston	1	16	End cover	1
8	O-Ring seal	1	17	Spring ( single acting version, N.O)	1
9	Supplementary piston seal	1			



### Ordering code



Magnetic sensors : see page 3.38

### Construction characteristics

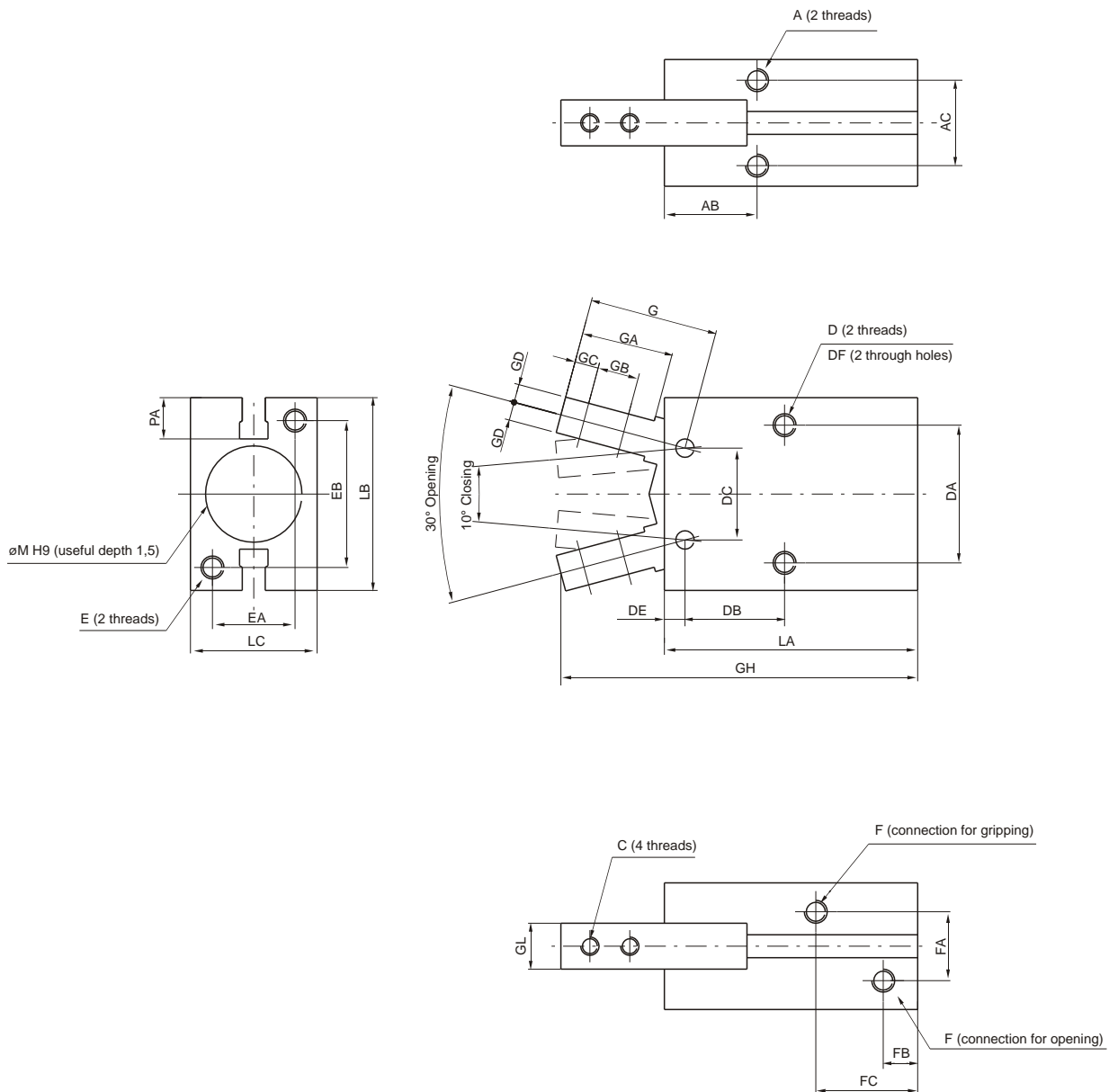
Body	oxidated aluminium
Piston	oxidated aluminium
Fingers	nitrate steel
End cover	oxidate aluminium
Seals	oil resistant NBR rubber

### Technical characteristics

Fluid	filtered and lubricated or non lubricated air
Working pressure	1 ÷ 6 bar for double acting 2,5 ÷ 6 bar for single acting
Operating temperature	-5°C ÷ +70°C

### Holding force (Nm) at 5 bar

Bore	Double acting	Single acting	Opening total stroke
10	0,1	0,07	-10° ÷ 30°
16	0,4	0,30	
20	0,7	0,55	
25	1,35	1,08	



Bore	A	AB	AC	C	D	DA	DB	DC	DE	DF	E	EA	EB
10	M3x0,5 (useful depth 6)	11,6	11,4	M2,5x0,45	M3x0,5 (useful depth 5)	16	12,8	10	2,8	2,6	M3x0,5 (useful depth 6)	12	18
16	M4x0,7 (useful depth 6,5)	14,6	16	M3x0,5	M4x0,7 (useful depth 8)	24	16,2	16	3,9	3,4	M4x0,7 (useful depth 8)	15	22
20	M5x0,8 (useful depth 8)	20,2	18,6	M4x0,7	M5x0,8 (useful depth 10)	30	21,7	20	4,5	4,3	M5x0,8 (useful depth 10)	18	32
25	M6 (useful depth 10)	23,9	22	M5x0,8	M6 (useful depth 12)	36	25,8	25	4,6	5,1	M6 (useful depth 12)	22	40

Bore	F	FA	FB	FC	G	GA	GB	GC	GD	GH	GL	LA	LB	LC	M	PA	Weight (gr.)
10	M3x0,5	10,4	7,2	18,8	17,2	12	5,7	3	2	52,4	6,4 <sup>0/-0,1</sup>	38,6	23	16,4	11 H9	5,4	40
16	M5x0,8	13	7	18,3	22,6	16	7	4	3,5	62,5	8 <sup>0/-0,1</sup>	44,6	30,6	23,6	17 H9	5,8	90
20	M5x0,8	15	7,5	22,2	28	20	9	5,2	4	78,7	10 <sup>0/-0,1</sup>	55,2	42	27,6	21 H9	9	180
25	M5x0,8	20	7,7	23,5	37,5	27	12	8	5	92	12 <sup>0/-0,1</sup>	60,4	52	33,6	26 H9	11,5	315

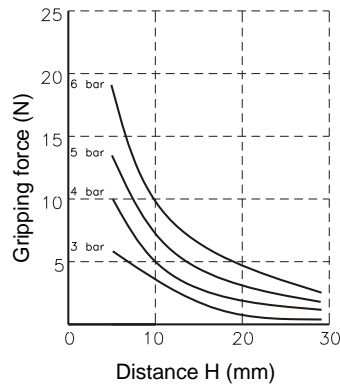
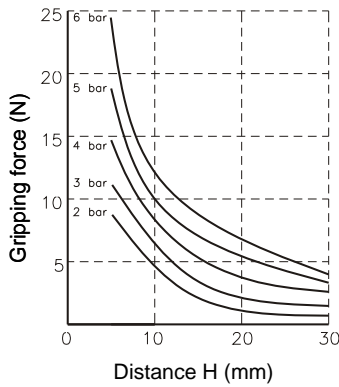
**NOTE:**

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.

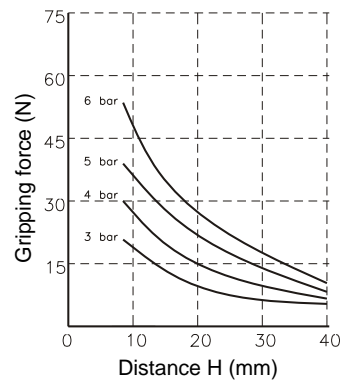
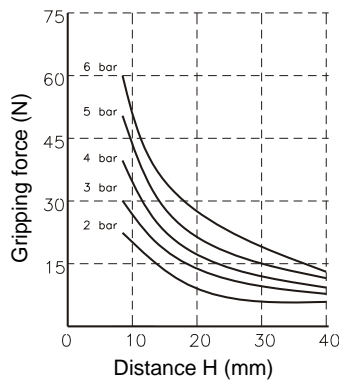
Double acting

Single acting

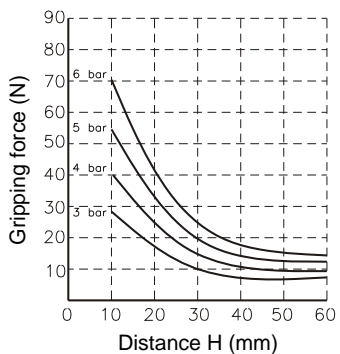
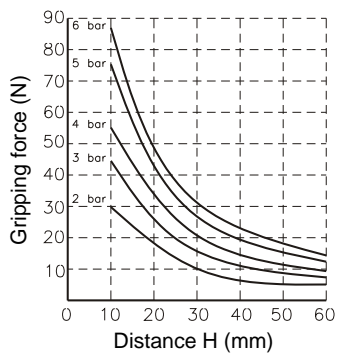
Ø10



Ø16



Ø20



Ø25

