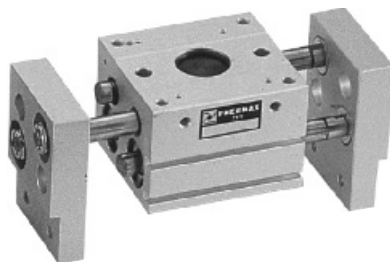


Pos.	Item	Qty.	Pos.	Item	Qty.
1	Nut	4	13	Piston seal	2
2	Finger	2	14	Piston	2
3	Washer	8	15	Magnet	2
4	Rack	2	16	Piston closing washer	2
5	Rod seal	8	17	Cushioning washer	4
6	Rack guiding bush	4	18	Holding ring	4
7	Body	1	19	Bushing	4
8	Circlip	1	20	Bushing seal	4
9	End cover	1	21	Rod seal	4
10	Pinion axis	1	22	Circlip	4
11	Pinion	1	23	Piston rod	2
12	Seal	2			



### Ordering Code

6311.Ø.D.	16	Ordering code options	Stroke				
	20		30	40	50	70	100
	25		60	80	100	120	160
32	2	80	100	120	160	200	
40		Ø16	Ø20	Ø25	Ø32	Ø40	
		<b>Bore</b>					

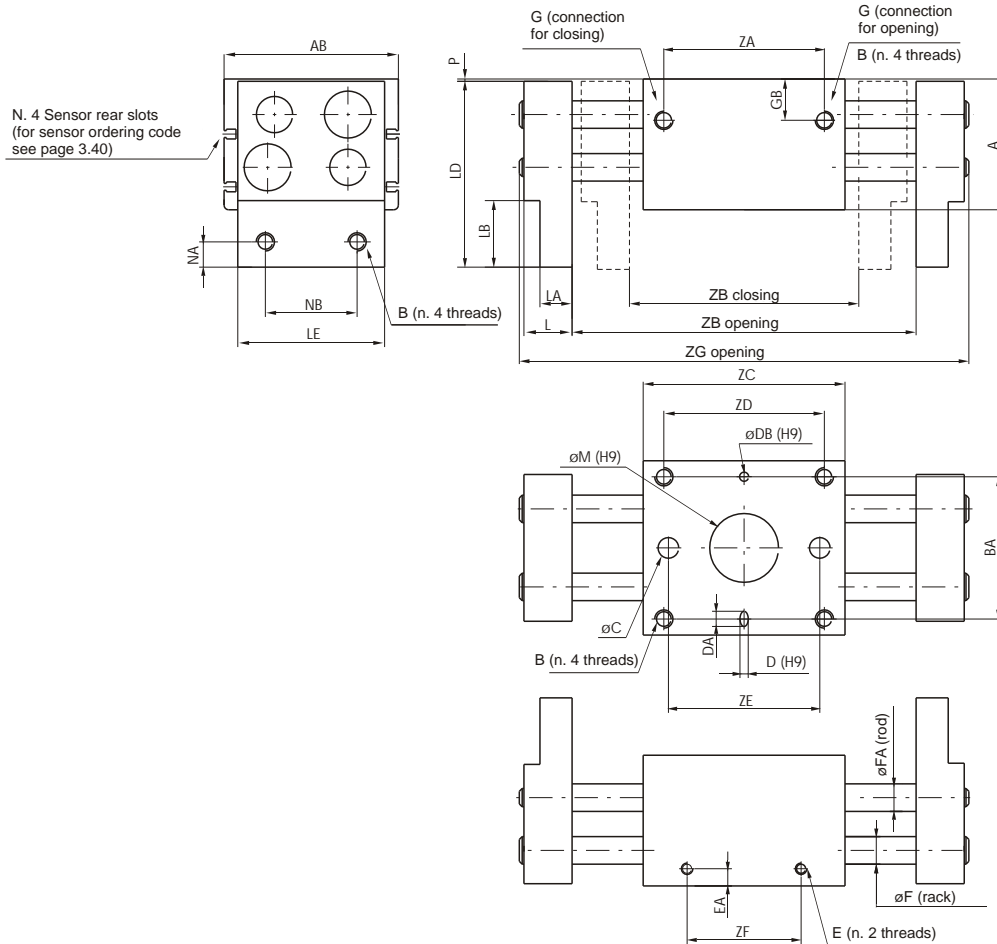
Magnet sensors: see page 3.40

### Construction characteristics

Body	aluminium
Piston	brass
Fingers	aluminium
Rod	steel
Rack	steel
Pinion	steel

### Technical characteristics

Fluid	filtered and non lubricated air
Function	double acting
Working pressure	1,6 bar
Working temperature	-5°C ÷ +70°C



Bore	A	AB	B	BA	øC	D (H9)	DA	øDB (H9)	E	EA	øF	FA	G	GB	L	LA
Ø16	39	55	M5x0,8 (useful depth h 10)	42	5,5	3 (depth3)	4	3 (depth3)	M5x0,8 (useful depth h 7)	10	8	8	M5x0,8	10	13	9
Ø20	46	65	M6x1 (useful depth h 12)	52	6,6	4 (depth4)	5	4 (depth4)	M6x1 (useful depth h 7)	11	10	10	M5x0,8	11	17	12,5
Ø25	52	76	M8x1,25 (useful depth h 16)	62	9	4 (depth4,5)	5	4 (depth4,5)	M8x1,25 (useful depth h 7)	12,5	12	12	M5x0,8	16	21	14
Ø32	68	82	M8x1,25 (useful depth h 16)	64	/	6 (depth8)	7	6 (depth8)	M8x1,25 (useful depth h 11)	22	14	16	G1/8	16	24	15
Ø40	79	98	M10x1,5 (useful depth h 20)	76	/	6 (depth8)	7	6 (depth8)	M10x1,5 (useful depth h 12)	28	16	20	G1/8	18	28	18

Bore	LB	LD	LE	øM (H9)	N	NA	NB	P
Ø16	19	57,5	43	23 (depth 1,5)	M5x0,8	8	25	0,5
Ø20	24	69	54	27 (depth 1,5)	M6x1	10	30	1
Ø25	29	80	64	32 (depth 1,5)	M8x1,25	12	40	1
Ø32	32	99	70	35 (depth 2,5)	M10x1,5	15	50	1
Ø40	38	176	86	40 (depth 2,5)	M12x1,75	18	60	1

Bore	Opening/ Closing Stroke	ZA	ZB		ZC	ZD	ZE	ZF	ZG opening	Weight (gr.)
			closing	opening						
Ø16	30	26	68	98	60	45	40	28	128	600
	60	50	110	170	90	75	70	58	200	800
	80	70	130	210	110	95	90	78	240	950
Ø20	40	32	82	122	71	58	54	38	160	1000
	80	68	142	222	113	100	96	80	260	1500
	100	88	162	262	133	120	116	100	300	1700
Ø25	50	38	100	150	88	70	66	48	196	1700
	100	86	182	282	142	124	120	102	328	2500
	120	104	200	320	160	142	138	120	366	2800
Ø32	70	56	150	220	110	86	/	60	272	2900
	120	104	198	318	158	134	/	108	370	3800
	160	148	242	402	202	178	/	152	454	4700
Ø40	100	72	188	288	148	116	/	80	348	5300
	160	130	246	406	206	174	/	138	466	6850
	200	170	286	486	246	214	/	178	546	7900

**Holding force**

