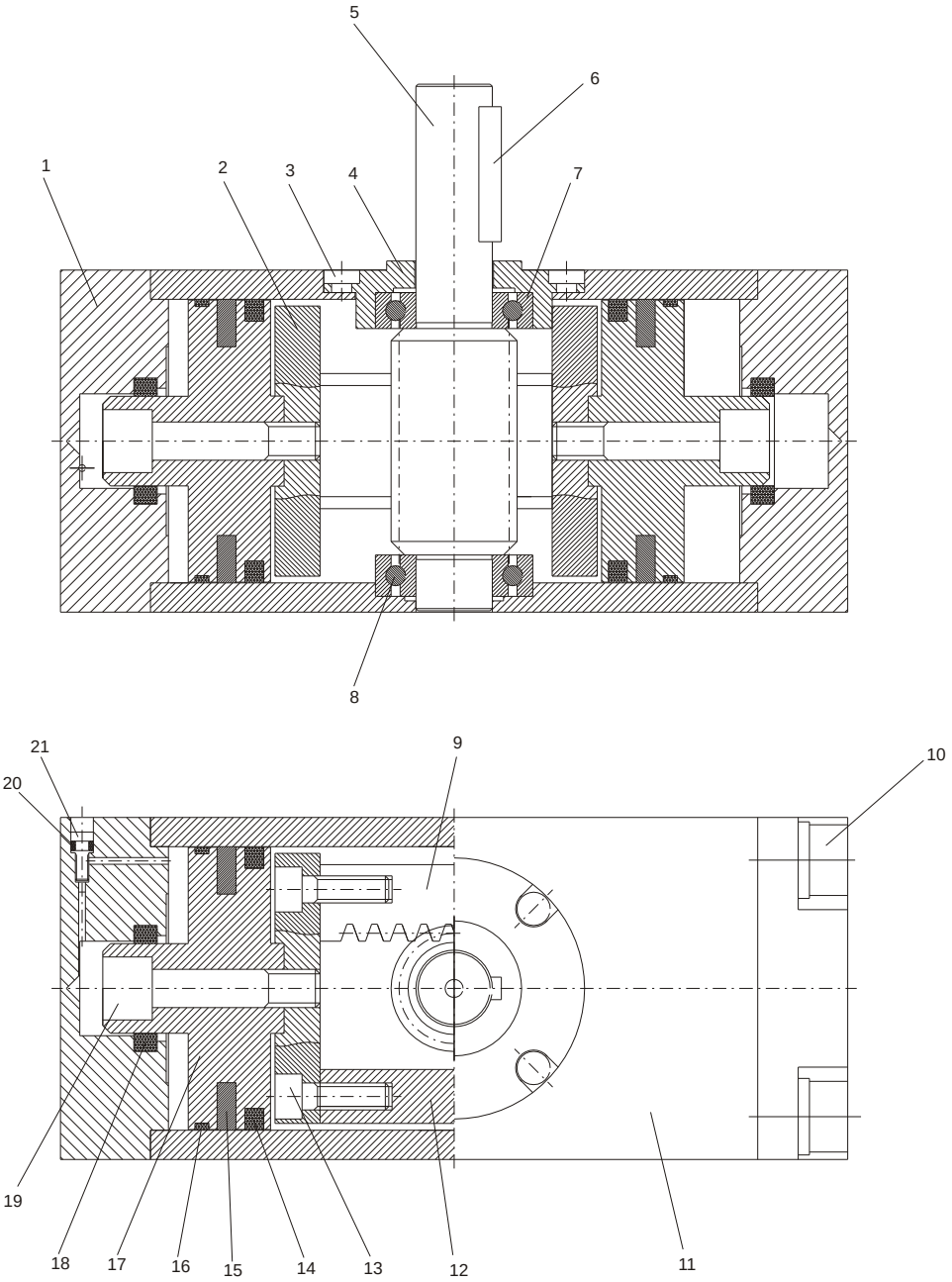
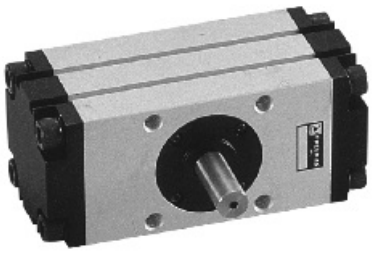


Pos.	Item	Qty.	Pos.	Item	Qty.
1	End plate	2	12	Guiding rod	1
2	Rack support	2	13	Rack fixing screw	4
3	Upper bearing flange fixing screw	4	14	Piston seal	2
4	Upper bearing flange	1	15	Magnet	2
5	Pinion	1	16	Sliding shoe	2
6	Key	1	17	Piston	2
7	Upper bearing	1	18	Cushioning washer	2
8	Lower bearing	1	19	Piston fixing screw	2
9	Rack	1	20	Cushioning screw seal	2
10	End plate fixing screw	8	21	Cushioning adjusting screw	2
11	Body	1			



Ordering code

6410.Ø.

- **90** = rotation 90°
- **180** = rotation 180°

- **50**
- **63**
- **80**
- **100**

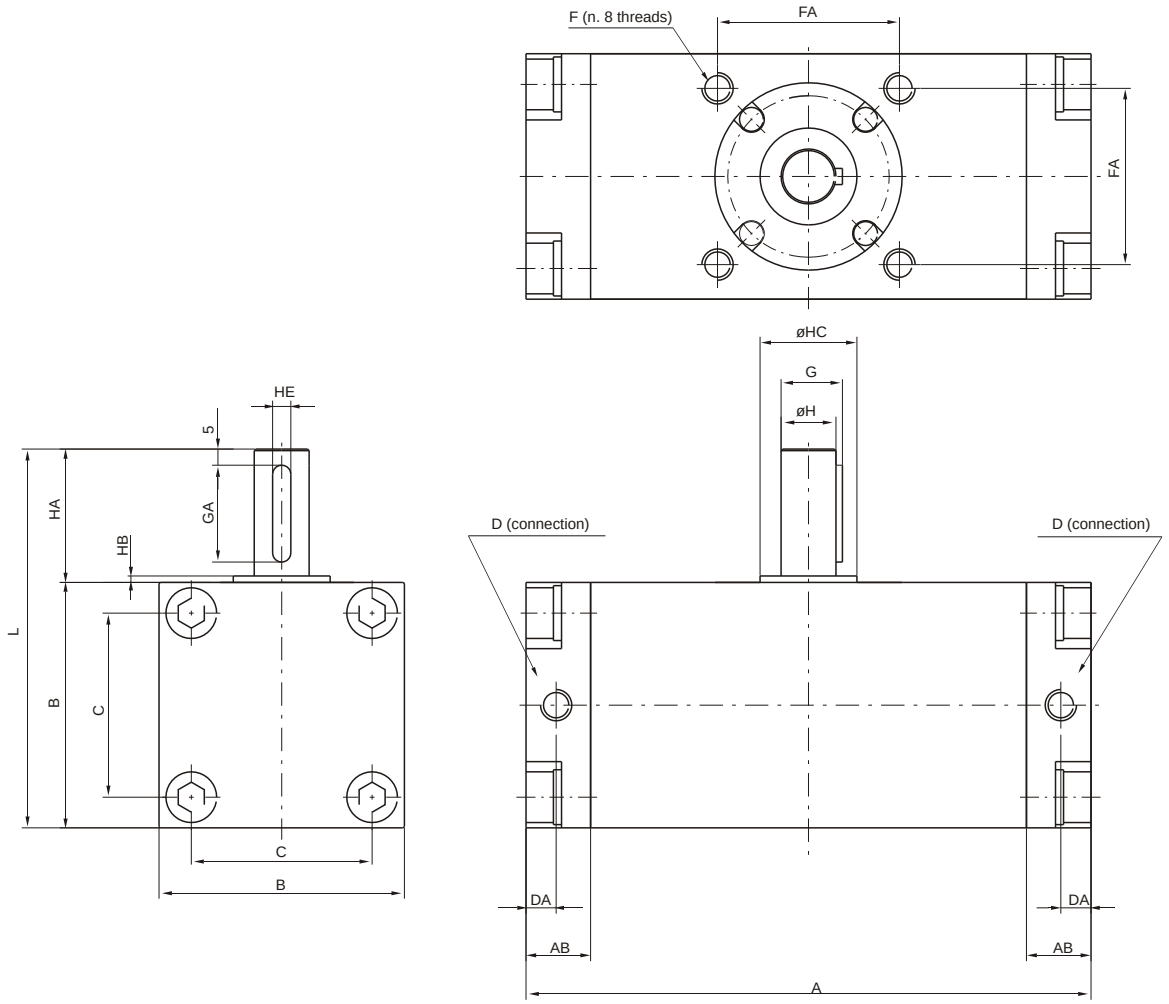
NOTE : Magnetic sensors see page 4.10

Construction characteristics

Body	aluminium alloy
Piston	aluminium
End plate	aluminium
Piston seal	NBR rubber
Pinion	steel
Rack	steel

Technical characteristics

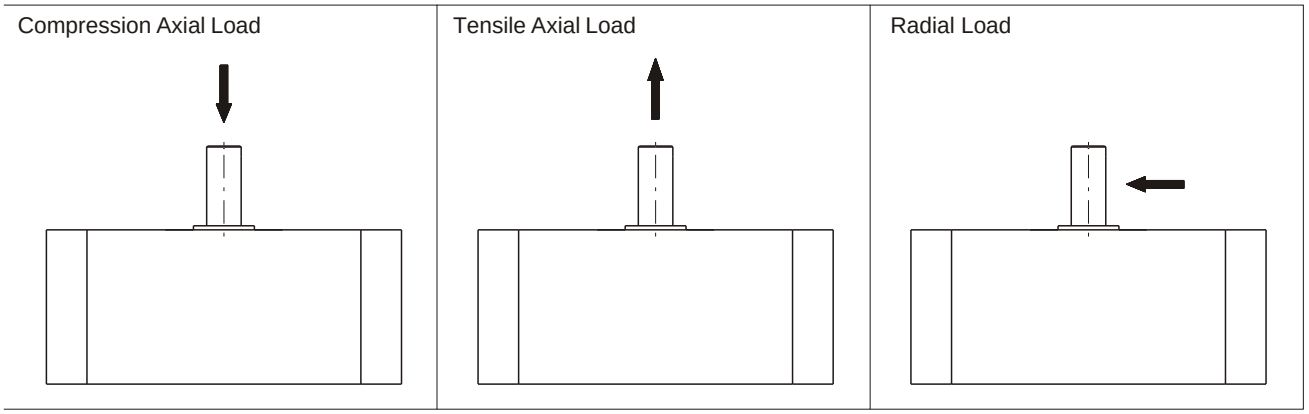
Fluid	filtered and non lubricated air
Max. pressure	10 bar
Working temperature	-5°C ÷ +70°C



Bore	A		AB	B	C	D	DA	F	FA	G	GA	H	HA	HB	HC	HE	L	Weight (gr.)	
ø50	156	189	17	62	46	G1/8	8,5	M8x1,25 (usef ul d ept h 8)	48	17	25	15	36	2,5	25	5 $^{0}_{-0,030}$	98	1500	1700
ø50	175	214	20	76	57	G1/8	10	M10x1,5 (usef ul d ept h 12)	60	19,5	30	17	41	2,5	30	6 $^{0}_{-0,030}$	117	2500	3000
ø50	199	243	23,5	92	70	G1/4	12	M12x1,75 (usef ul d ept h 13)	72	22,5	40	20	50	3	35	6 $^{0}_{-0,030}$	142	4300	5000
ø50	259	325	25	112	85	G3/8	12,5	M12x1,75 (usef ul d ept h 14)	85	28	45	25	60	4	40	8 $^{0}_{-0,036}$	172	8500	9500
	90°	180°																90°	180°

Allowable Loads

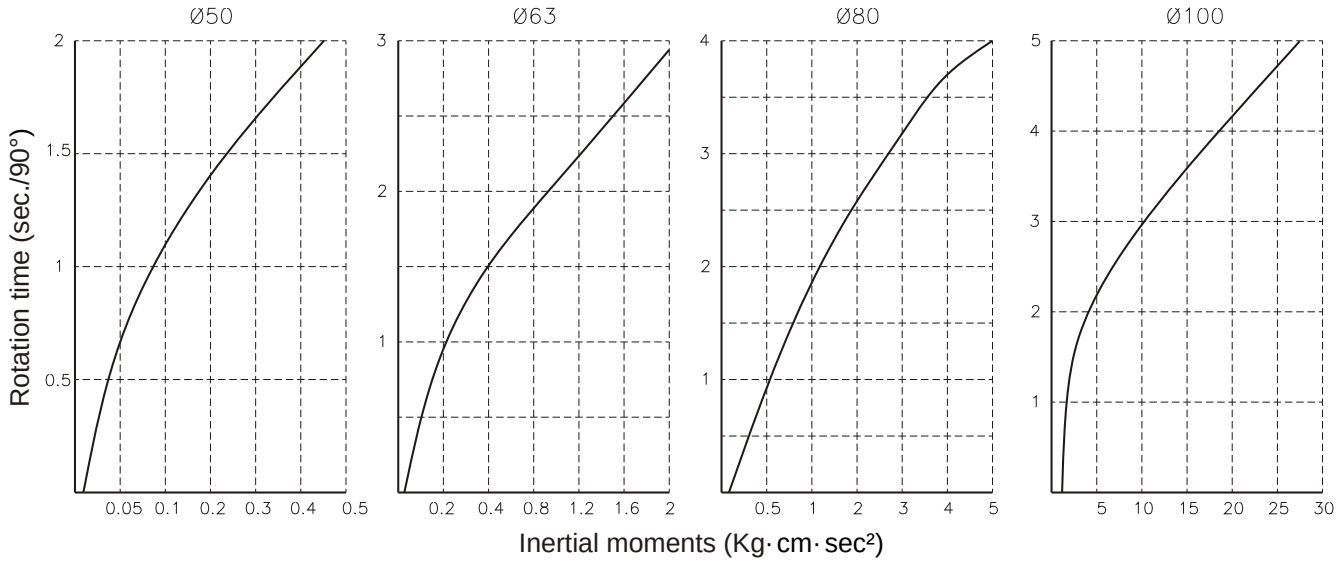
	Size			
	50	63	80	100
Radial Load (N)	200	300	400	600
Compression Axial Load (N)	500	600	900	1000
Tensile Axial Load (N)	200			



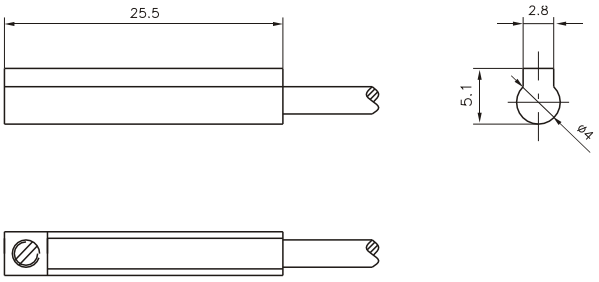
Kinetic energy (cushioning angle 35°)

	Size			
	ø50	ø63	ø80	ø100
Max Kinetic energy (Kg· cm)	10	15	20	30

Rotation time according to inertial moments



Sensor c/w 1 m. Cable

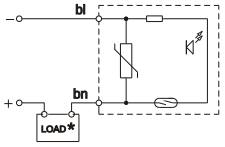


Ordering codes	
1581.U	Reed bulb sensor with led and 1 m cable
1581.HAP	PNP sensor Hall effect with led and 1 m cable
1581.HAN	NPN sensor Hall effect with led and 1 m cable

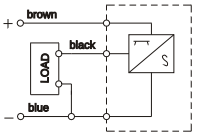
Technical characteristics

	1581.U	1581.HAP	1581.HAN
Type of contact	N.O.		
Maximum current	100mA	200mA	
Maximum permanent power	10W	6W	
Voltage range	5÷120VDC/AC	5 ÷ 30V DC	
Working temperature	-10° C ÷ 70°C		
Maximum voltage drop	/	0,5V	
Cable section	2, ø2,8	3,ø2,8	
Degree of protection	IP 67		

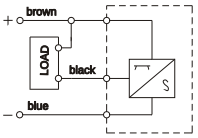
Diagrams and connection



With Reed bulb



PNP



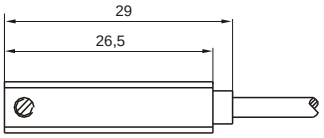
NPN

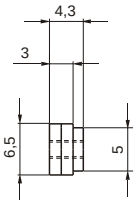
Hall effect

4

Sensor c/w 2,5 m. cable

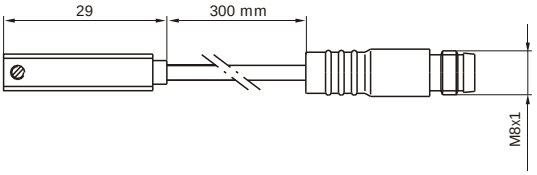
Weight gr. 27





Sensor c/w M8 connector (300 mm cable)

Weight gr. 15



Ordering codes	
1580.U	Reed bulb sensor with led and 2.5 m cable
1580.HAP	PNP sensor Hall effect with led and 2.5 m cable
MRS.U	Reed bulb sensor with led and connector
MHS.P	PNP sensor Hall effect with led and connector
MC1	M8 in line connector with 2.5 m cable (2 wires)
MC2	M8 in line connector with 5 m cable (2 wires)
MCH1	M8 in line connector with 2.5 m cable (3 wires)
MCH2	M8 in line connector with 5 m cable (3 wires)

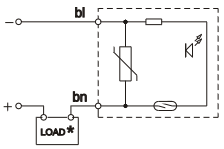
Technical characteristics

	1580.U	MRS.U	1580.HAP	MHS.P
Type of contact	N.O.			
Maximum current (pulses of 0.5 sec)	0,1A		0,2A	
Maximum permanent current	0,1A		0,2A	
Maximum permanent power	6VA		4W	
Voltage range A.C.	3 ÷ 30V		/	
Voltage range D.C.	3 ÷ 30V		12 ÷ 30V	
Working temperature	-20° C ÷ 70°C			
Maximum voltage drop	3V			
Cable section	2x0,14		3x0,14	
Degree of protection	IP 65			
Connecting time	0,5 ms		0,8 ms	
Disconnecting time	0,1 ms		0,3 ms	
Average working period	10^7		10^9	
Repetition of intervention point	± 0,1			

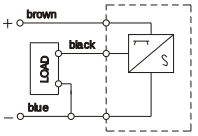
NOTE: Pay attention to the connected loads which should not exceed recommendations

***Reed bulb sensor: connection can be done either to negative or positive pole**

Diagrams and connection



With Reed bulb



Hall effect