

Series 1348-1349-1350, Non rotating cylinders

Construction characteristics

End caps	UNI 5079 aluminium alloy casting painted black by cataphoresis
Rod	C43 chromed steel Ra = 0.2
Barrel	UNI 9006/1 aluminium alloy square section, hardened 30 micron oxidate
Cushion bushings	2011 UNI 9002/5 hardened alloy aluminium
Piston	polyacetal resin, self-lubricated and anti-wear, with plastoferrite rings in magnetic version
Piston seals	NBR oil-resistant rubber, PUR Piston rod and cushion seals
Cushioning adjustment screw	brass

Technical characteristics

Fluid	Filtered air. No lubrication needed, if applied it shall be continuous.
Pressure	10 bar
Operating temperature	-5°C - +70°C

Please follow the suggestions below to ensure a long life for these cylinders:

- use clean and lubricated air
- correct alignment during assembly with regard to the applied load so as to avoid radial components or bending the rod.
- avoid high speeds together with long strokes and heavy loads: this would produce kinetic energy which the cylinder cannot absorb, especially if used as a limit stop (in this case use mechanical stop device)
- evaluate the environmental characteristics of cylinder used (high temperature, hard atmosphere, dust, humidity etc.)

Please note: air must be dried for applications with lower temperature.

Use hydraulic oils H class (ISO VG32) for correct continued lubrication.

Our Technical Department will be glad to help.

Bore	Usable surface (square profile) cm ²	Max couple on the rod (max torque) Nm	Grade precision (rest rod, without load) anti-rotation	Cushion length mm.
32	8.31	0.5	12'	22
40	12.41	0.8	12'	27
50	18.41	1.1	12'	27
63	29.67	1.5	12'	32

Standard strokes (for all diameters)

from 0 to 150, every 25 mm

Other stroke for these following bores:

- Ø 32 80 mm
- Ø 40 80 - 160 mm
- Ø 50 80 - 160 - 200 - 250 mm
- Ø 63 80 - 160 - 200 - 300 - 320 mm

On request are available strokes up to 1000 mm

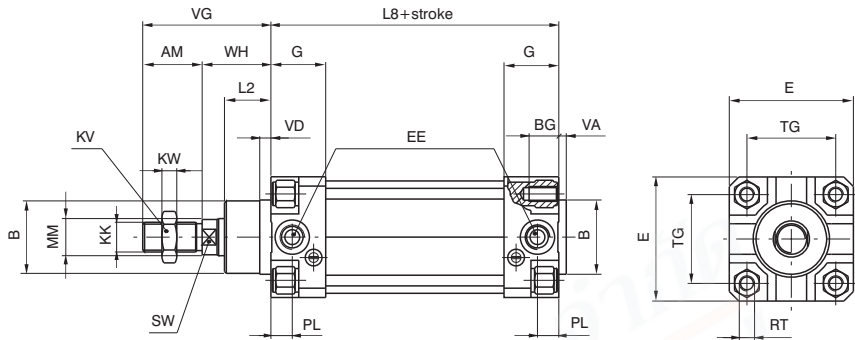
Stroke Tolerance (ISO 15552)

Bore	Stroke	Tolerance
32 - 40 - 50 - 63	up to 500	+2 0

Basic version

Ordering code

- 1348.Ø.stroke.01**
magnetic chromed rod
- 1349.Ø.stroke.01**
magnetic stainless steel rod
- 1350.Ø.stroke.01**
non-magnetic chromed rod



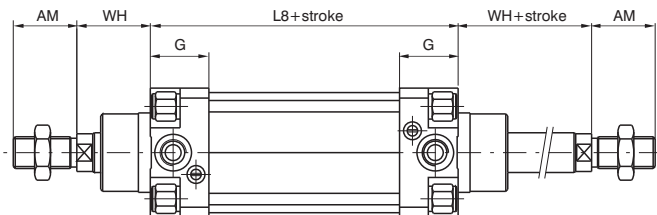
Bore	32	40	50	63	
AM	22	24	32	32	
B (d 11)	30	35	40	45	
BG	12	12	16	16	
E	46	52	65	75	
EE	G 1/8"	G 1/4"	G 1/4"	G 3/8"	
G	25	29	29,5	36	
KK	M10x1,25	M12x1,25	M16x1,5	M16x1,5	
KV	17	19	24	24	
KW	6	7	8	8	
L 2	16	20	25	25	
L 8	94	105	106	121	
MM	12	16	20	20	
PL	9	11,5	13	14	
RT	M6	M6	M8	M8	
SW	10	13	17	17	
TG	32,5	38	46,5	56,5	
VA	4	4	4	4	
VD	5	6	6	6	
VG	48	54	69	69	
WH	26	30	37	37	
Weight					
g	stroke 0 every 10 mm	505 24	705 33	1320 53	1710 58

This is the configuration that represents the basic cylinder according to ISO standards. It can be directly anchored on machine parts using the four threads on the end cap. For other applications see the following pages where different types of attachments shown.

Through rod cylinder version

Ordering code

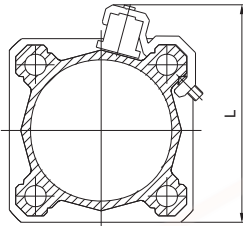
- 1348.Ø.stroke.02**
magnetic chromed rod
- 1349.Ø.stroke.02**
magnetic stainless steel rod
- 1350.Ø.stroke.02**
non-magnetic chromed rod



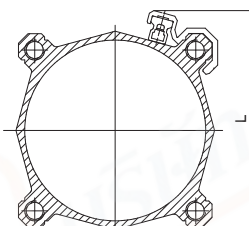
► **Sensor brackets**

Sensor brackets codes 1500._, RS._, HS._	Sensor brackets codes 1595.HAP	Bore	L
Code	Code		
1320.A	1320.ASC	Ø32	60
		Ø40	65
1320.B	1320.BSC	Ø50	77
		Ø63	87
1320.C	1320.CSC	Ø80	105
		Ø100	125
1320.D	1320.DSC	Ø125	145
1320.E	1320.ESC	Ø160	184
1320.F	1320.FSC	Ø200	222

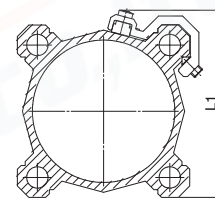
Sensor brackets codes 1580._, MRS._, MHS._		
Code	Bore	L1
1320.AS	Ø32	48
	Ø40	54
1320.BS	Ø50	66
	Ø63	76
1320.CS	Ø80	96
	Ø100	112
1320.DSC	Ø125	145
1320.ESC	Ø160	184
1320.FSC	Ø200	222



Sensors 1500._, RS._, HS._



Sensors 1595.HAP

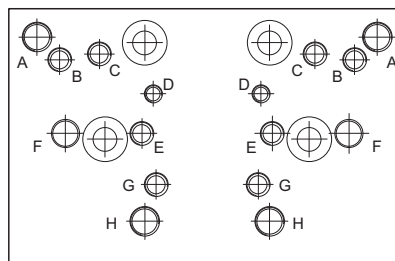


Sensors 1580._, MRS._, MHS._

Sensors for microbore cylinders: for technical characteristics and ordering codes see "Magnetic sensors" section

► **Solenoid valves supports**

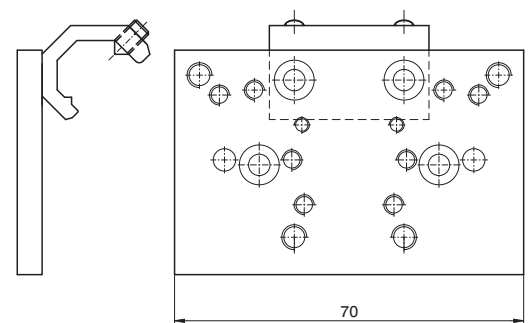
This accessory permits to mount a valve or an electrovalve on a side of the cylinder. The plate can be fitted on the cylinder profiled barrel, and, on it, can be mounted either a threaded distributor or a base on which can be mounted an ISO distributor. Once installed the connections must be done with fittings and pipes. All of the threaded holes on the support plate are dedicated to different valves series as per attached drawing.



Fixing holes for valves series:

- A = 414/2
- B = 824
- C = 828, T488, 488, 484
- D = 2400
- E = 2600
- F = Bases for ISO distributors
- G = 858/2
- H = T424

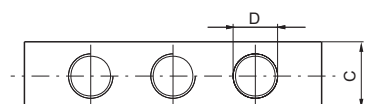
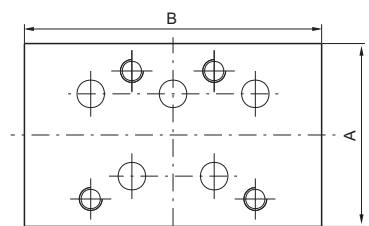
Ordering code	
1320.15	(Ø32 - Ø40)
1320.16	(Ø50 - Ø63)
1320.17	(Ø80 - Ø100)
1320.18	(Ø125)
1320.19	(Ø160)
1320.20	(Ø200)



► **Bases for ISO solenoid valves**

Ordering code

1320.21	bases for ISO 1 solenoid valves
1320.22	bases for ISO 2 solenoid valves



		Dimensions			
		A	B	C	D
1320.21	bases for ISO 1 solenoid valves	40	75	15	G 1/8"
1320.22	bases for ISO 2 solenoid valves	50	95	20	G 1/4"