

### **Construction characteristics**

Series 1348-1350

UNI 5079 aluminium alloy casting painted black by cataphoresis C43 chromed steel $Ra=0.2$ UNI 9006/1 aluminium alloy square section, hardened 30 micron oxidate
<u> </u>
UNI 9006/1 aluminium alloy square section, hardened 30 micron oxidate
2011 UNI 9002/5 hardened alloy aluminium
polyacetal resin, self-lubricated and anti-wear, with plastoferrite rings in magnetic version
NBR oil-resistant rubber, PUR Piston rod and cushion seals
brass
F 1

### **Technical characteristics**

Fluid	filtered and lubricated air
Pressiure	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) cm²	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 to150, every 25 mm					
Other stroke for these following bores:					
Ø32 80 mm					
Ø 40	80 - 160 mm				
Ø 50 80 - 160 - 200 - 250 mm					
Ø63 80-160-200-300-320 mm					

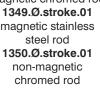
### Stroke Tolerance (ISO 15552)

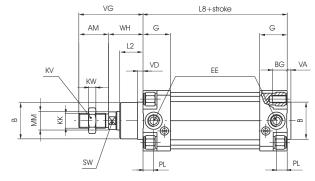
Bore	Stroke	Tolerance	
32 - 40 - 50 - 63	up to 500	+2 0	

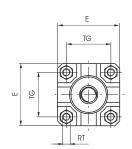
# Basic version

Ordering code

1348.Ø.stroke.01 magnetic chromed rod 1349.Ø.stroke.01 magnetic stainless steel rod









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

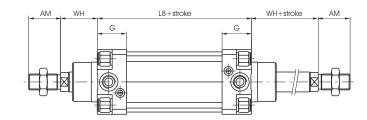
Bore		32	40	50	63
AM		22	24	32	32
B (d 11)		30	35	40	45
BG		12	12	16	16
E		46	52	65	75
EE		G 1/8"	G 1/4"	G 1/4"	G 3/8"
G		25	29	29.5	36
KK		M10x1.25	M12x1.25	M16x1.5	M16x1.5
KV		17	19	24	24
KW		6	7	8	8
L 2	L2		20	25	25
L 8	L8		105	106	121
MM	MM		16	20	20
PL		9	11.5	13	14
RT		M6	M6	M8	M8
SW	SW		13	17	17
TG	TG		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	stroke 0	505	705	1320	1710
gr.	every 10 mm	24	33	53	58

### Push/pull version

Ordering code

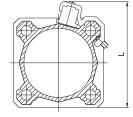
1348.Ø.stroke.02 magnetic chromed rod 1349.Ø.stroke.02 magnetic stainless steel rod

1350.Ø.stroke.02 non-magnetic chromed rod

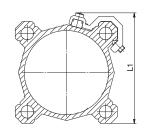




### Sensor brackets



Sensor brackets codes 1500, RS, HS		Sensor brackets codes 1580, MRS, MHS			
Code	Bore	L	Code	Bore	L1
1320.A	Ø32	60	1000 10	Ø32	48
1320.A	Ø40	65	1320.AS	Ø40	54
1320.B	Ø50	77	1320.BS	Ø50	66
1320.6	Ø63	87		Ø63	76
1320.C	Ø80	105	1320.CS	Ø80	96
1320.0	Ø100	125		Ø100	112
1320.D	Ø125	145	/	/	/
1320.E	Ø160	184	/	/	/
1320.F	Ø200	222	/	/	/
for cylinders: 1319 - 1320, 1325 - 1345, 1330 - 1332, 1348 - 1349					

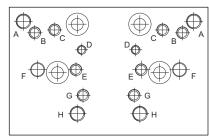


### Sensor for microcylinders

For technical characteristics and ordering codes see Chapter 6 (magnetic sensors)

## **Distributor 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 whic 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 = 414/2B = 824

C = 828, T488, 488, 484

D = 2400E = 2600

F = Bases for ISO distributors

G = 858/2

H = T424

For cylinders series 1319 - 1321 / 1325 - 1326 / 1345 - 1347 / 1330 - 1333 / 1348 - 1350

## Ordering code

**1320.15** (Ø32 - Ø40)

**1320.16** (Ø50 - Ø63)

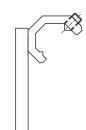
**1320.17** (Ø80 - Ø100)

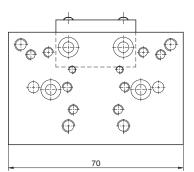
**1320.18** (Ø125)

**1320.19** (Ø160)

**1320.20** (Ø200)







#### Bases for ISO distributors

Ordering code				
1320.21	bases for ISO 1 electrodistributor			
1320.22	bases for ISO 2 electrodistributor			



		Dimensions			
		Α	В	С	D
1320.21	bases for ISO 1 electrodistributor	40	75	15	G 1/8"
1320.22	bases for ISO 2 electrodistributor	50	95	20	G 1/4"

