## MCG3 series Lift / Turntable

#### TRIPLE-GUIDE CYLINDER





#### Features:

- Three guide rods equally spaced enable consistent movement even when uneven load is applied.
- Increases productivity on conveyor lines.
- When connected to a rotary actuator the unit can be used as an auto turn lifter.
- Magnetic as standard.

#### Specification:

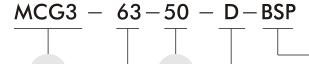
Model	МС	G3
Model (Stop type view)	( Lift type )	( Turntable type )
Acting type	Double	acting
Tube I.D.(mm)	63	80
Port size	PT1/4	PT3/8
Standard stroke	30, 50, 75	5, 100 mm
Medium	А	ir
Operating pressure range	1~9.91	kgf/cm <sup>2</sup>
Proof pressure	15 kg	Jf/cm <sup>2</sup>
Ambient temperature	-5~+60℃	(No freezing)
Lubrication	Not re	quired
Cushion	With rubber	cushion pad
Sensor switch	RCB,RC	E,RCE1

PORT THREAD

Blank: PT thread BSP: BSP thread NPT: NPT thread

#### Order example:

MODEL



TUBE I.D.

63 80: only for life type

STROKE\*

Purpose / Type of bearing Circle table lift / Slide bearing Circle table lift / Linear bush bearing D90 Turntable / Angle 90° / Slide bearing B90 Turntable / Angle 90° / Linear bush bearing D180 Turntable / Angle 180° / Slide bearing B180 Turntable / Angle 180° / Linear bush bearing QD Quad table lift / Slide bearing Quad table lift / Linear bush bearing

APPLICATION / TYPE OF BEARING

<sup>\*</sup>Stroke out of specification is also available.

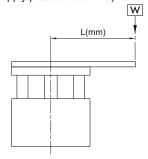
## MCG3 Lift / Turntable $\phi$ 63, $\phi$ 80



#### **TRIPLE-GUIDE CYLINDER**

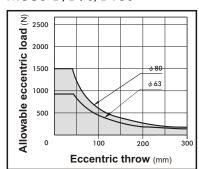
## Allowable eccentric load :

(at supply pressure 0.5MPa)

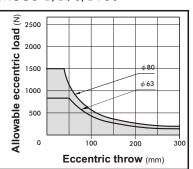


Shows the dynamic allowable value at L(mm) eccentricity from the center of the guide rod.

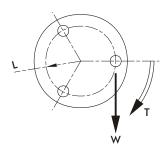
#### MCG3-D/D90/D180



#### MCG3-B/B90/B180



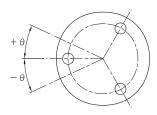
#### Allowable rotating torque:



Shows the dynamic allowable value, when actuating the cylinder with a rotating torque T at the guide rods' top.

				(N.m)
Tube I.D.	Pooring type	St	roke (m	m)
Tube I.D.	Bearing type	30	50	100
4.62	Slide bearing	13.2	12.7	7.6
$\phi$ 63	Linear hush hearing	13.5	12 7	8.8

#### Anti-roll accuracy:



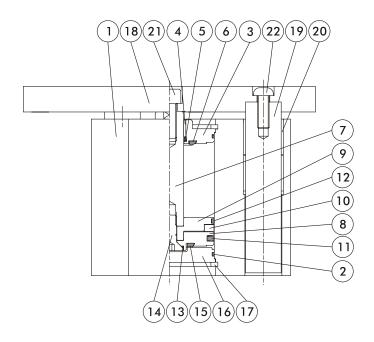
The values are the deflection angle against the piston rod.

Tube I.D.	Bearing type	Anti-roll accuracy
Tube I.D.	bearing type	θ
φ <b>63</b>	Slide bearing	±0.07°
φ 63	Linear bush bearing	±0.03°

## MCG3 Inside structure & Parts list







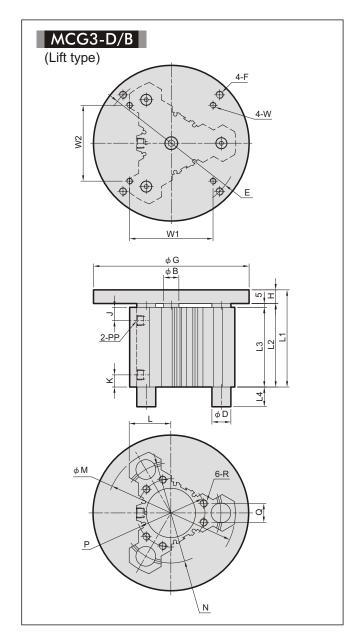
### Material

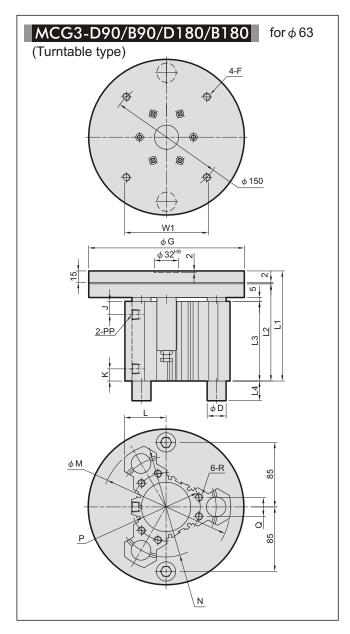
No.	Part name	Material
1	Body	Aluminum alloy
2	Cover ring	NBR
3	Rod cover	Aluminum alloy
4	Rod bush	Copper
5	Rod packing	NBR
6	Rod cushion	NBR
7	Piston rod	Medium carbon steel
8	Piston	Aluminum alloy
9	Piston for magnet ring	Aluminum alloy
10	Magnet ring	Magnet material
11	Piston packing	NBR
12	Wear ring	Teflon
13	Piston gasket	NBR
14	Screw	Carbon steel
15	Head cushion	NBR
16	End cover	Aluminum alloy
17	Snap ring	Spring steel
18	Plate	Carbon steel
19	Guide rod	Medium carbon steel
20	Guide rod bush	Copper
21	Screw for piston rod	Carbon steel
22	Screw for guide rod	Carbon steel

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### TRIPLE-GUIDE CYLINDER







## MCG3-D/B

Code Tube I.D.	В	Е	F	G	Н	J	K	L	M	N	Р	PP	Q	R	W	W1	W2
63	20	P.C.D180	M10×1.5	205	18	17.5	16	54.8	170	P.C.D132	P.C.D90	PT1/4	25	M10×1.5×23depth	M8×1.25	110	100
80	25	P.C.D190	M10×1.5	220	18	22	22	61.2	190	P.C.D150	P.C.D106	PT3/8	32	M10×1.5×23depth	M8×1.25	110	100

<b>-</b> .		L	.1		L2				L3			
Tube I.D.						Stroke	(mm	)				
1.0.	30	50	75	100	30	50	75	100	30	50	75	100
63	108	128	153	178	90	110	135	160	85	105	130	155
80	118	138	163	188	100	120	145	170	95	115	140	165

Tube	L	4	φ	D
I.D.	MCG3-D	MCG3-B	MCG3-D	MCG3-B
63	0	26	φ 25	φ16
80	0	25	φ 28	φ20

## MCG3-D90/B90/D180/B180

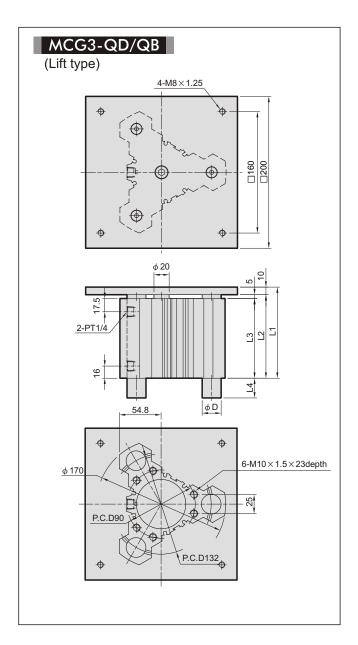
İ	T 1.		L1			L2			L3		
	Tube I.D.				Stro	Stroke (mm)					
	1.0.	30	50	100	30	50	100	30	50	100	
	63	125	145	195	108	128	178	85	105	155	

Tube	L	.4	φ	D
I.D.	D90 / D180	B90 / B180	D90 / D180	B90 / B180
63	0	26	φ 25	φ16

# MCG3 Lift / Installation of sensor switch $\,\phi\,63,\,\phi\,80\,$



### TRIPLE-GUIDE CYLINDER



### MCG3-QD/QB

Tube I.D.	Stroke (mm)	L1	L2	L3
	30	100	90	85
63	50	120	110	105
63	75	145	135	130
	100	170	160	155

Tube	L	_4	$\phi$ D		
I.D.	MCG3-QD	MCG3-QB	MCG3-QD	MCG3-QB	
63	0	26	φ 25	φ 16	

