

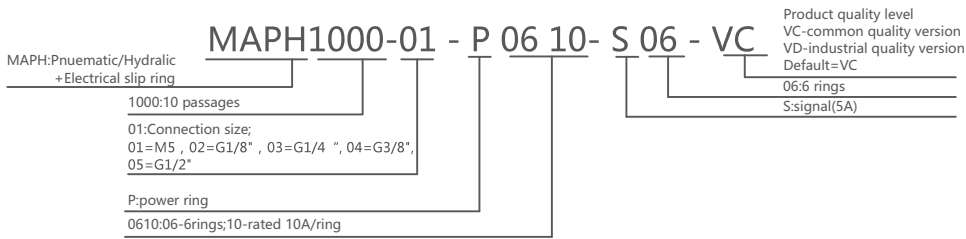
# MAPH1000

## 10 Passages Fluid Electrical Slip Ring



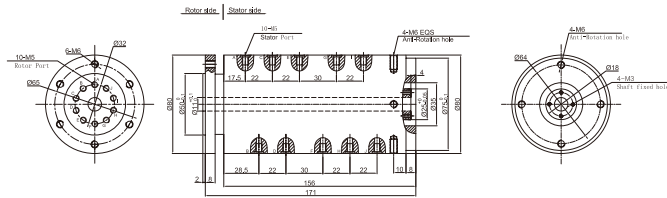
MAPH1000 is 10 passages Pneumatic /Hydraulic + 2~96rings Electrical Slip Ring.  
 Connection size including: M5,G1/8", G1/4", G3/8",G1/2" and bigger on request.  
 Electrical rings including power wire, signal wire,Ethernet, USB, Industrial BUS,  
 control Net, and all kinds of sensitive signal, etc. Normally use flange for installation,  
 hollow shaft intallation on request.  
 Media Types: Air/Gas,hydrogen,Nitrogen,Chemical, Water,Oil,etc.

### Part# Explanation

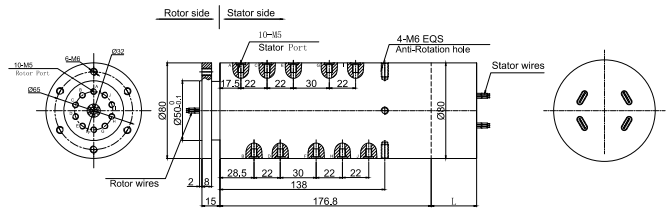


10Passages, M5

MAPH1000-01 Dimensions



MAPH1000-01 Integration of gas and electricity Dimensions ▼



### Part# List

MAPH1000-01 Pneumatic/Hydraulic Slip Ring

1) XX=01,connection size=M5, Pipe size3~6mm

Part#	Pneumatic/Hydraulic Passage	10A	Signal or 5A	Length (mm)	Part#	Pneumatic/Hydraulic Passage	10A	Signal or 5A	Length (mm)
MAPH1000-01-S06	10 passages	0	6	38	MAPH1000-01-P0810-S10	10 passages	8	10	71.6
MAPH1000-01-P0210-S04	10 passages	2	4	38	MAPH1000-01-P1010-S08	10 passages	10	8	71.6
MAPH1000-01-P0410-S02	10 passages	4	2	38	MAPH1000-01-P1210-S06	10 passages	12	6	71.6
MAPH1000-01-P0610	10 passages	6	0	38	MAPH1000-01-P1410-S04	10 passages	14	4	71.6
MAPH1000-01-S12	10 passages	12	0	54.8	MAPH1000-01-P1610-S02	10 passages	16	2	71.6
MAPH1000-01-P0210-S10	10 passages	2	10	54.8	MAPH1000-01-S24	10 passages	0	24	88.4
MAPH1000-01-P0310-S09	10 passages	3	9	54.8	MAPH1000-01-P0410-S20	10 passages	4	20	88.4
MAPH1000-01-P0610-S06	10 passages	6	6	54.8	MAPH1000-01-P0610-S18	10 passages	6	18	88.4
MAPH1000-01-P0810-S04	10 passages	8	4	54.8	MAPH1000-01-P1210-S12	10 passages	12	12	88.4
MAPH1000-01-P1010-S02	10 passages	10	2	54.8	MAPH1000-01-S30	10 passages	0	30	105.2

MAPH1000-01-P1210	10 passages	12	0	54.8	MAPH1000-01-P0610-S24	10 passages	6	24	105.2
MAPH1000-01-S18	10 passages	0	18	71.6	MAPH1000-01-S36	10 passages	0	36	125
MAPH1000-01-P0210-S16	10 passages	2	16	71.6	MAPH1000-01-S42	10 passages	0	42	141.8
MAPH1000-01-P0410-S14	10 passages	4	14	71.6	MAPH1000-01-S48	10 passages	0	48	158.6
MAPH1000-01-P0610-S12	10 passages	6	12	71.6					

Note: N channels 10A rings parallel can be used as 1 channel N\*10A current. For example: 2 rings 10A parallel could be used as 1 wires 20A.  
10A and Signal(5A) can be combine in any way as you need. Max.ring:96 rings, can be customized based on standard slip rings. Please contact us.

### Specifications

Rotary Union Specification		
Parameter	Value	
Passage	10 passages	
Max .Pressure	3MPa, Vacuum 100KPa	
Torque	5.0N.M	
Electrical Data		
Parameter	Value	
	Power	Signal
Rated Voltage	0~440VAC/VDC	0~440VAC/VDC
Insulation Resistance	≥1000MΩ/500VDC	≥1000MΩ/500VDC
Lead Wires	AWG17#Teflon	AWG22#Teflon
Lead Length	standard 300mm(adjustable)	
Insulation Strength	500VAC@50Hz, 60s	
Electrical Noise	<0.01Ω	
Mechanical Data		
Parameter	Value	
Working Life	See Product Quality Level Table	
Rotating Speed	See Product Quality Level Table	
Working Temperature	-30°C~80°C	
Operating Humidity	0~85% RH	
Contact Material	Precious Metal	
Housing Material	Aluminium Alloy	
Protection Grade	IP51	

### Product Quality Level Table

Products Level Code	Max Rotating Speed	Working Life	Sealing Element
VC	100RPM	10 Million Revs	Common Seals
VD	300RPM	30 Million Revs	High-Quality Seals

### Lead Wires Color Code

Ring	1	2	3	4	5	6	7	8	9	10	11	12
Color	BLK	RED	YLW	GRN	BLU	WHT	BLK	RED	YLW	GRN	BLU	WHT

(6 wires for 1 group color, from 7-12, repeat the same color as 1...6, indicated with number code pipe)

### Options for custom slip ring

Note Below special demands can be customized. According, the delivery date will be extended 3 to 15 days; also the cost will be increased 30% to 50%. Most of our basic parts are standard and modular, which can save the cost and lead time.

- ① Cable exit way and cable length can be customized for both rotor and stator.
- ② Because of the structure limitation, length/height/OD can be customized on your request.
- ③ Support current or signal up to 200 rings.
- ④ Aviation plug, terminal and heat-shrink tube are optional.
- ⑤ Hybrid slip ring for Yaskawa/Panasonic/Siemens servo control signal, power line and encoder line.
- ⑥ Support mixed high speed data transmission (including Ethernet, USB, RS232, RS485, Profibus, CanBUS, CANOPEN, DeviceNET, CC-LINK, ProfINET, EtherCAT, etc.)
- ⑦ Can combine temperature control signal with thermocouple signal.
- ⑧ Special environment can be customized, such as quakeproof, high temperature, etc.

⑨ Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.

- ⑩ High temperature can up to 500 degrees.
- ⑪ High voltage can up to 110KV
- ⑫ Rotating speed can up to 10000RPM
- ⑬ Maximum current can up to 5000 amperes.
- ⑭ Military grade
- ⑮ Optional for underwater IP65, IP68.
- ⑯ Optional for stainless steel housing

Technical support : [technical@moflon.com](mailto:technical@moflon.com)