

LPP Rotary Unions (Can Be Integrated with Electricity)



Rotary Union		Electrical & Electronics		Mechanical	
Circuits	2/4/6/8/10/12	Circuits	1 ~ 36	Working Speed	0 ~ 100rpm
Gas Pipe Outer Diameter(mm)	φ4	Current	2A each circuit or higher	Contact Material	Gold to gold
Maximum Working Pressure	-1.5Kpa ~ 1Mpa	Voltage	240V AC/DC	Housing Material	Engineering Plastic / Metal (Optional)
Medium	Compressed air, inert gas, etc.	Dielectric Strength	≥500VAC@50Hz	Wire Type	AWG28# Teflon®UL
Environmental		Insulation Resistance	100MΩ@500VDC	Wire Length	250mm (Optional)
Temperature	-20°C~+60°C (Optional)			Others	
Humidity	≤60%RH	ElectricalNoise	35mΩ (Min 1mΩ)	Life	5 million (can be customized)
Protection Grade	IP50 (Optional)				

Brief Introduction

The LPP rotary unions can perform rotation of 360 degrees. The medium includes inert gas such as compressed air, steam, vacuum, nitrogen, hydrogen, etc. It can integrate slip ring to transport various control signals. The sealing surface and sealing ring are made of special materials, with the advantages of wear resistance, long life, corrosion resistance, and no leakage. Customers can install LPP rotary unions independently according to the application environment.

Features

- Continuable medium: compressed air, nitrogen, and other inert gases;
- Small size, light weight, low torque
- Integrated power, switching signal, Ethernet, USB, industrial bus, sensor and other signals;
- Customized rotary joint parameters and integrated slip ring can be customized according to customer requirements;
- The joint and pipe diameter can be customized according to customer requirements;

Optional

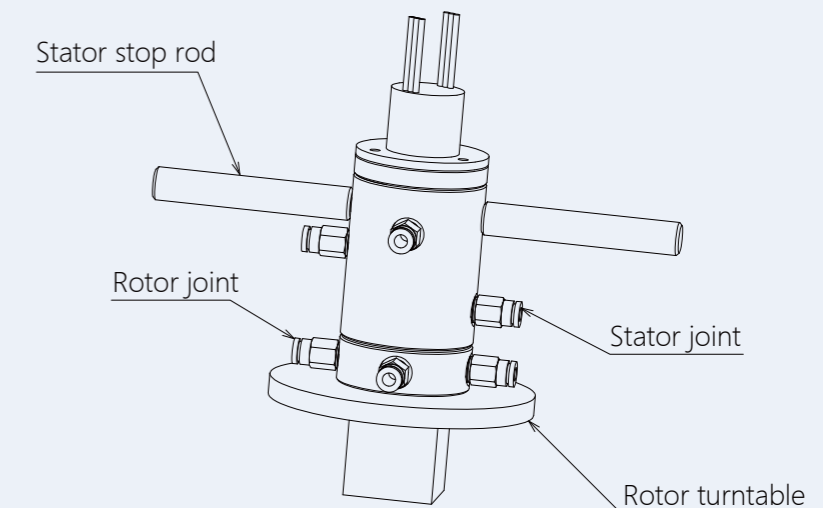
- Inner diameter & Outer diameter/Number of circuits/Current & Voltage/Wire length/Housing material and color/Protection level/Signal and power can be transmitted separately or in combination

Installation Specifications

1. The mounting position of the slip ring is matched with the equipment. It is necessary to connect the air pipe at the rotor end to ensure that there is no leakage.
2. Debug the concentricity of the rotor before installation and ensure the smooth rotation of the slip ring.
3. The stator is screwed into the anti-rotation rod through the anti-rotation hole to stop rotation, and can also be customized according to customer requirements.

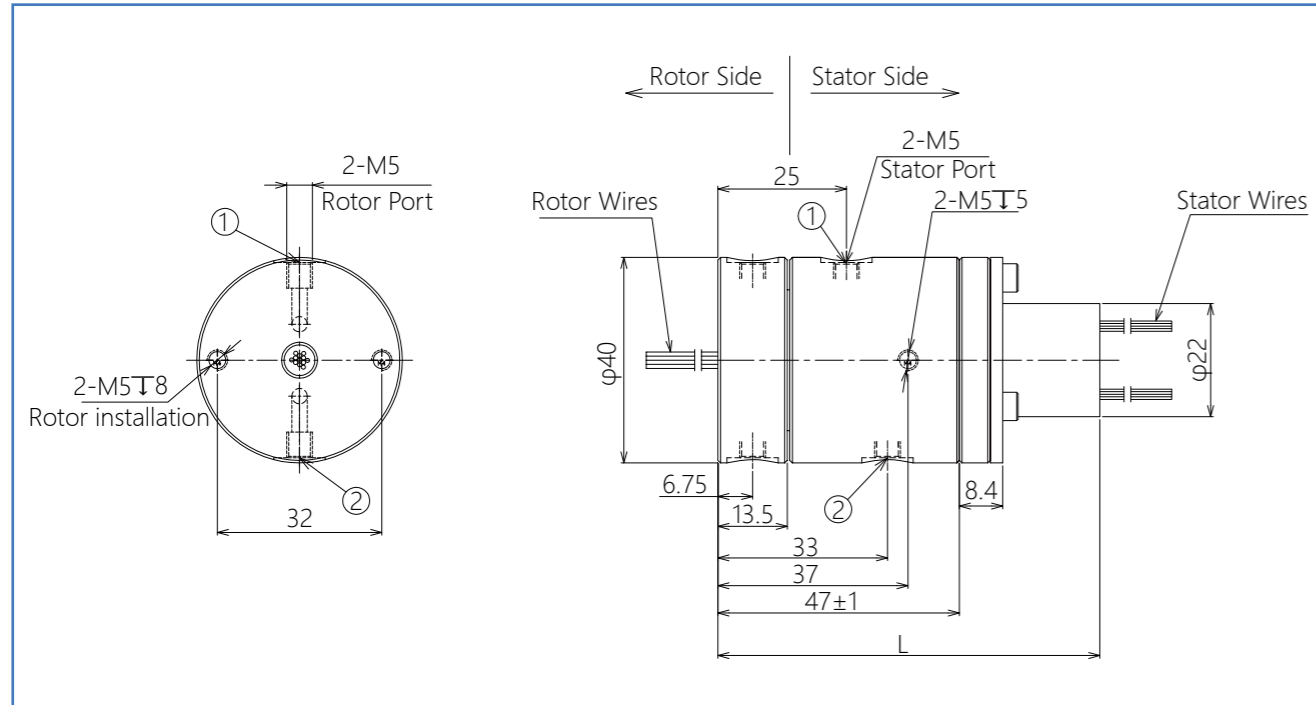
Precautions for Installation of Rotary Joints:

1. Rotary joints should prevent impact and drop during delivery and storage to avoid damage to the interface and internal parts.
2. The bolts for fixing need to be loosened.
3. When installing the rotary joints, it should be noted that the thread direction of the inner and outer tubes corresponds to the rotation direction of the drum, and the thread rotation direction of the inner and outer tubes should also be the same.
4. The inlet and outlet of the rotary joint should be connected directly to the hose as much as possible. The transmission

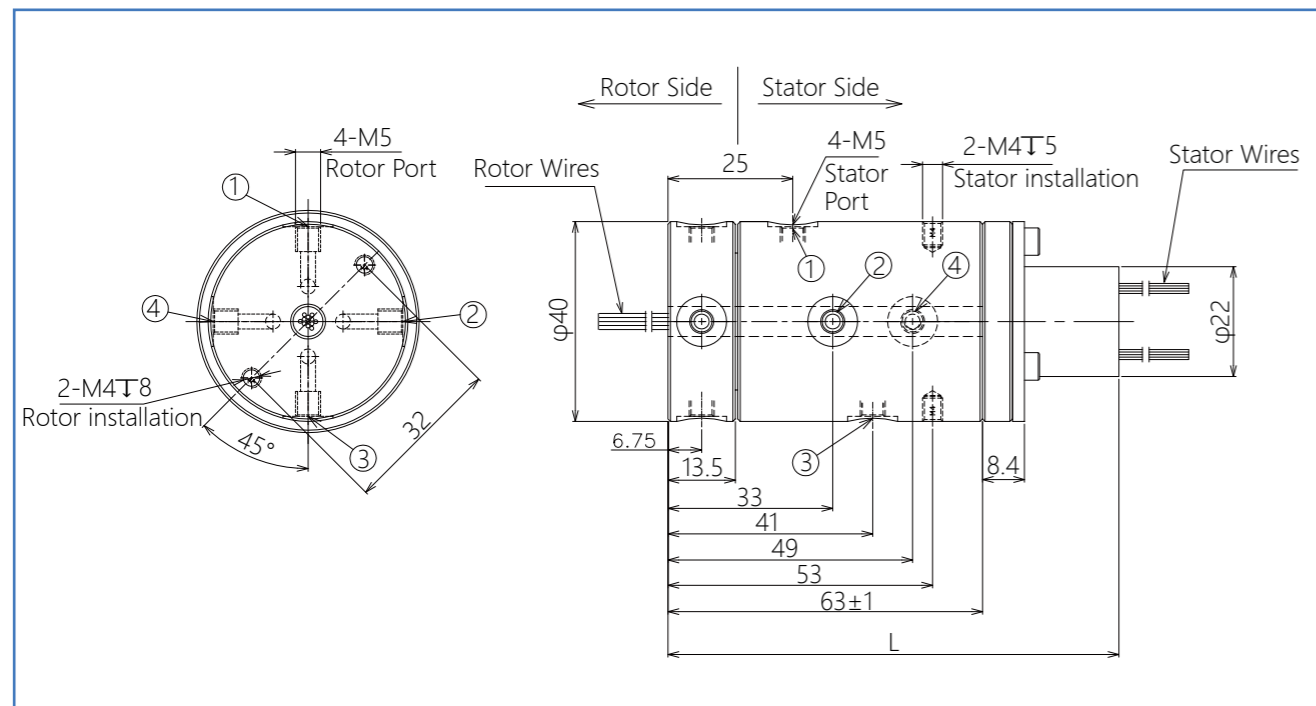


LPP Rotary Unions Outline Drawing

LPPL06-02A-xx02(xx Represents the Number of Circuits)

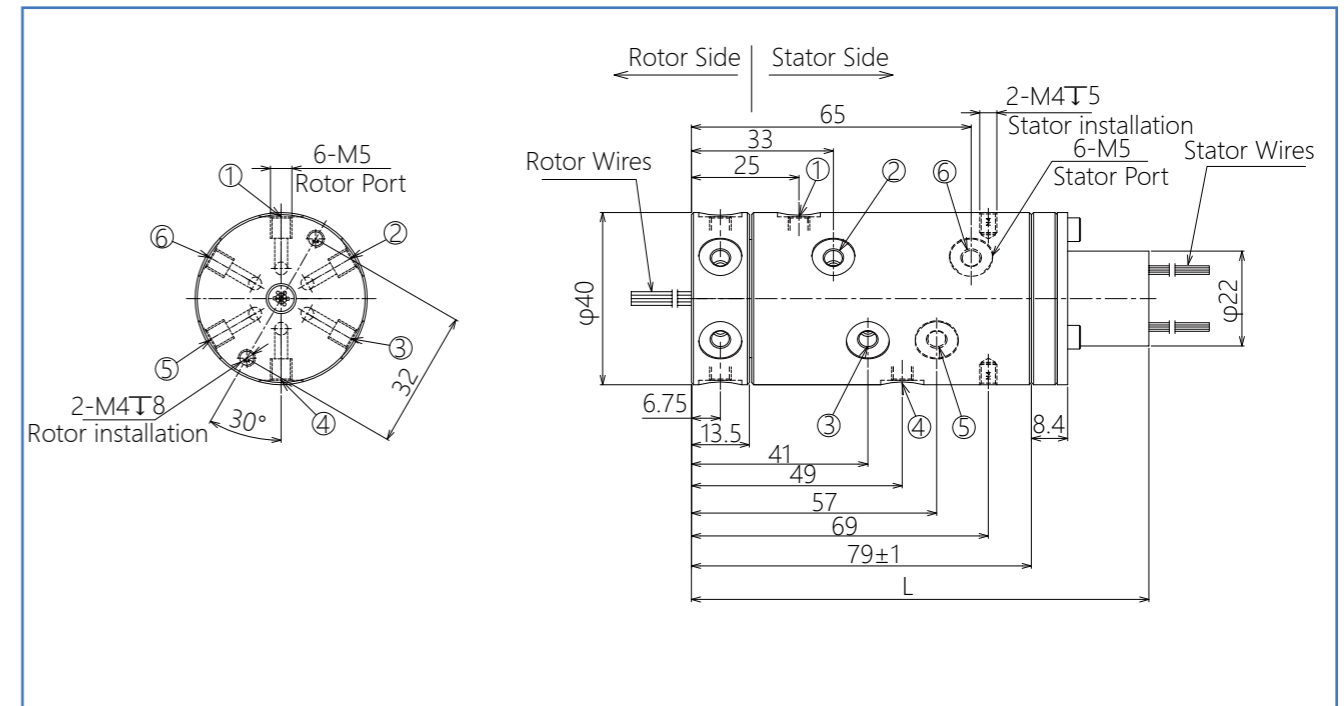


LPPL06-04A-xx02(xx Represents the Number of Circuits)

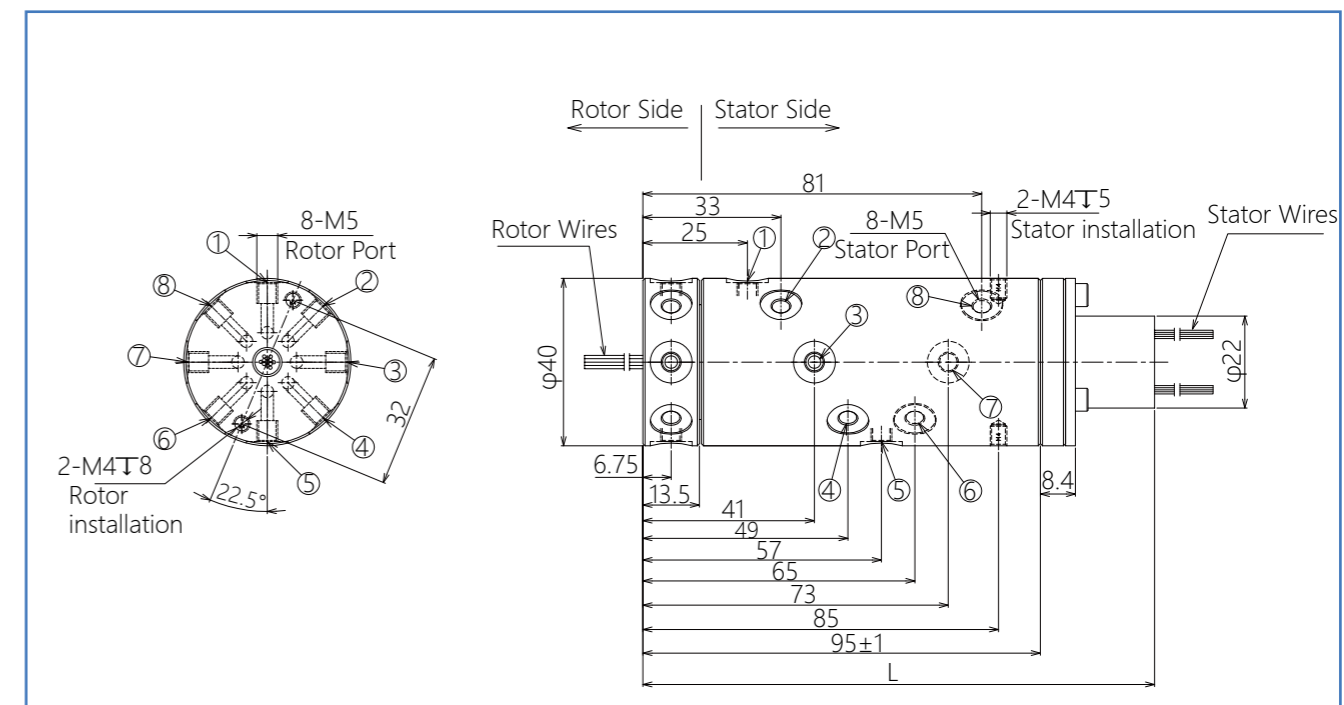


LPP Rotary Unions Outline Drawing

LPPL06-06A-xx02(xx Represents the Number of Circuits)

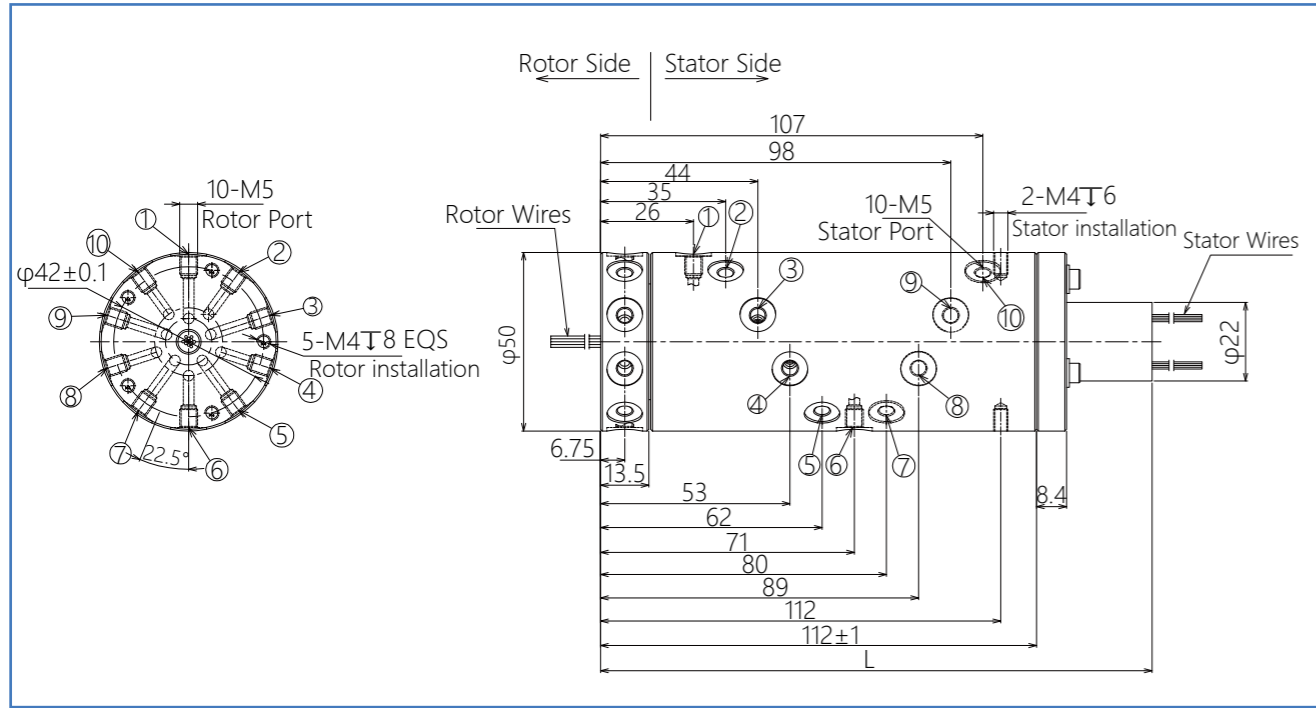


LPPL06-08A-xx02(xx Represents the Number of Circuits)

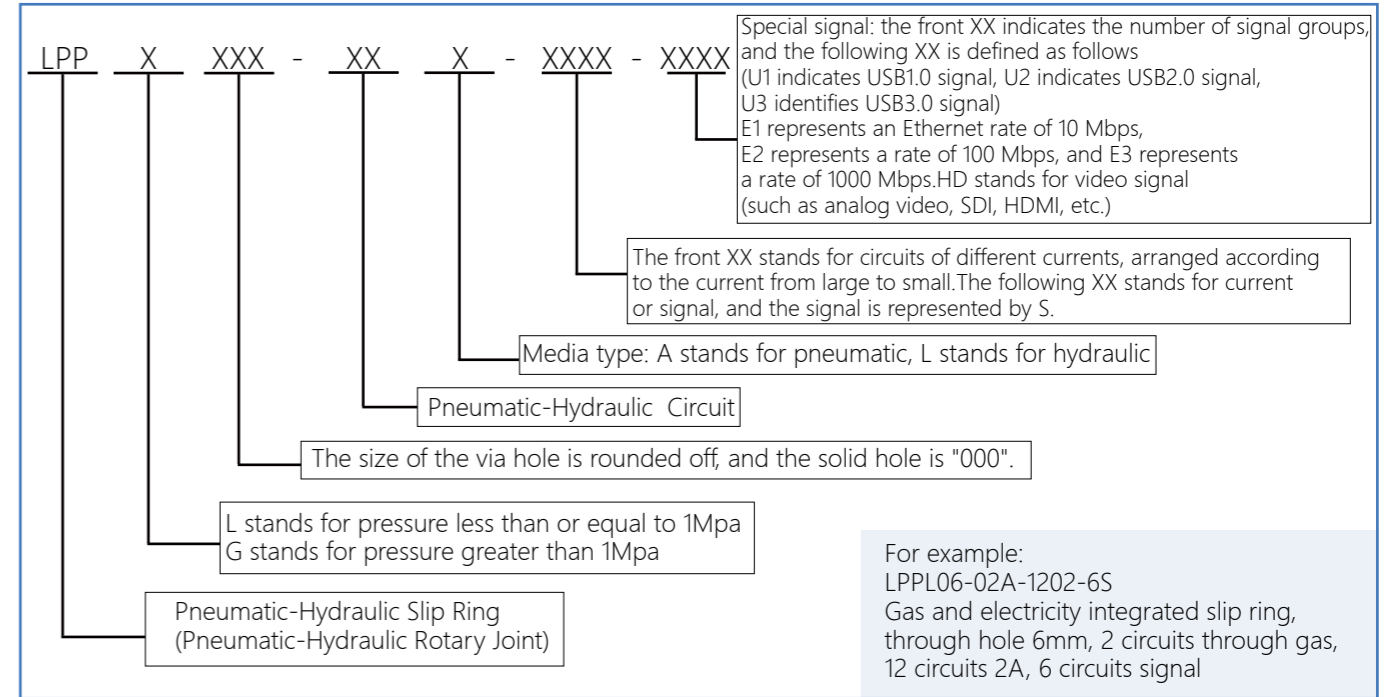
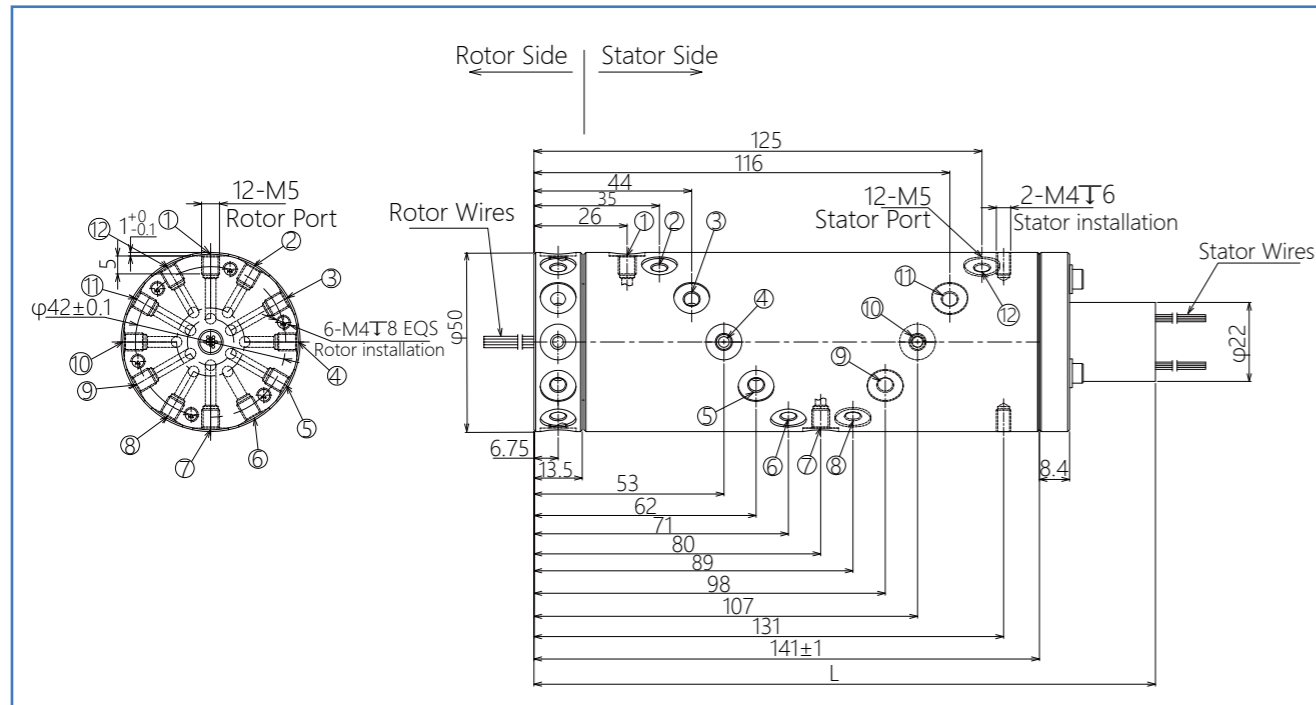


LPP Rotary Unions Outline Drawing

LPPL06-10A-xx02(xx Represents the Number of Circuits)



LPPL06-12A-xx02(xx Represents the Number of Circuits)



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Model	Circuits	ID (mm)	OD (mm)	Length (L)(mm)	Connector Type	Maximum Working Pressure	Working Speed	Torque	Number of Integrated Circuits ($\leq 2A/\text{signal}$)
LPPL06-02A	2	$\phi 6$	$\phi 40$	47	M5	-1.5Kpa ~ 1Mpa	0 ~ 100rpm	$\leq 0.6N.m$	/
LPPL06-02A-1202		/		74.3	M5	-1.5Kpa ~ 1Mpa	0 ~ 100rpm	$\leq 0.6N.m$	12
LPPL06-02A-2402		/		90.7	M5	-1.5Kpa ~ 1Mpa	0 ~ 100rpm	$\leq 0.6N.m$	24
LPPL06-02A-3602		/		105.2	M5	-1.5Kpa ~ 1Mpa	0 ~ 100rpm	$\leq 0.6N.m$	36
LPPL06-04A	4	$\phi 6$	$\phi 40$	63	M5	-1.5Kpa ~ 1Mpa	0 ~ 100rpm	$\leq 0.8N.m$	/
LPPL06-04A-1202		/		90.3	M5	-1.5Kpa ~ 1Mpa	0 ~ 100rpm	$\leq 0.8N.m$	12
LPPL06-04A-2402		/		106.7	M5	-1.5Kpa ~ 1Mpa	0 ~ 100rpm	$\leq 0.8N.m$	24
LPPL06-04A-3602		/		121.2	M5	-1.5Kpa ~ 1Mpa	0 ~ 100rpm	$\leq 0.8N.m$	36
LPPL06-06A	6	$\phi 6$	$\phi 40$	79	M5	-1.5Kpa ~ 1Mpa	0 ~ 100rpm	$\leq 1.0N.m$	/
LPPL06-06A-1202		/		106.3	M5	-1.5Kpa ~ 1Mpa	0 ~ 100rpm	$\leq 1.0N.m$	12
LPPL06-06A-2402		/		122.7	M5	-1.5Kpa ~ 1Mpa	0 ~ 100rpm	$\leq 1.0N.m$	24
LPPL06-06A-3602		/		137.2	M5	-1.5Kpa ~ 1Mpa	0 ~ 100rpm	$\leq 1.0N.m$	36
LPPL06-08A	8	$\phi 6$	$\phi 40$	95	M5	-1.5Kpa ~ 1Mpa	0 ~ 100rpm	$\leq 1.3N.m$	/
LPPL06-08A-1202		/		122.3	M5	-1.5Kpa ~ 1Mpa	0 ~ 100rpm	$\leq 1.3N.m$	12
LPPL06-08A-2402		/		138.7	M5	-1.5Kpa ~ 1Mpa	0 ~ 100rpm	$\leq 1.3N.m$	24
LPPL06-10A	10	$\phi 6$	$\phi 50$	122	M5	-1.5Kpa ~ 1Mpa	0 ~ 100rpm	$\leq 1.6N.m$	/
LPPL06-10A-1202		/		149.3	M5	-1.5Kpa ~ 1Mpa	0 ~ 100rpm	$\leq 1.6N.m$	12
LPPL06-10A-2402		/		165.7	M5	-1.5Kpa ~ 1Mpa	0 ~ 100rpm	$\leq 1.6N.m$	24
LPPL06-12A	12	$\phi 6$	$\phi 50$	141	M5	-1.5Kpa ~ 1Mpa	0 ~ 100rpm	$\leq 2.0N.m$	/
LPPL06-12A-1202		/		168.3	M5	-1.5Kpa ~ 1Mpa	0 ~ 100rpm	$\leq 2.0N.m$	12
LPPL06-12A-2402		/		184.7	M5	-1.5Kpa ~ 1Mpa	0 ~ 100rpm	$\leq 2.0N.m$	24