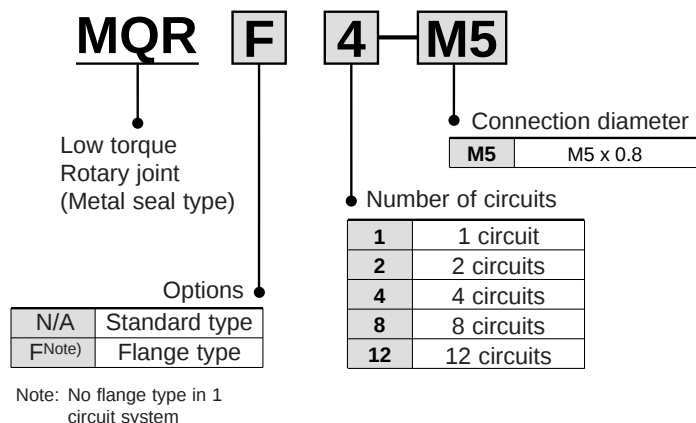


Low torque Metal seal type Rotary joint

Series MQR

1 circuit, 2 circuits, 4 circuits, 8 circuits, 12 circuits

How to Order



Options / Mounting bracket

Number of circuits	Flange part number
2 circuits	MQR2-F
4 circuits	MQR4-F
8 circuits	MQR8-F
12 circuits	MQR12-F



Specifications

Model	MQR1-M5	MQR2-M5	MQR4-M5	MQR8-M5	MQR12-M5
Number of circuits	1	2	4	8	12
Operating fluid	Air / Inert gas				
Seal structure	Metal seal				
Guide structure	Bearing supported	Bearing supported at both ends			
Port size	Male R1/8	M5 x 0.8			
	Female M5 x 0.8				
Flow rate	C[dm³/(s·bar)]		b		Cv
characteristics	0.50		0.40		0.17
Lubrication	Not required				
Min. operating pressure	-100kPa				
Max. operating pressure	1.0MPa				
Ambient temperature and operating fluid temperature Note 1)	-10 to 80°C				
Allowable torque Note 2)	0.003 N·m or less	0.03 N·m or less	0.05 N·m or less	0.10 N·m or less	0.20 N·m or less
Allowable rotation speed	3000 min ⁻¹ (r.p.m.) Note 3)	2000 min ⁻¹ (r.p.m.)	1500 min ⁻¹ (r.p.m.)	900 min ⁻¹ (r.p.m.)	600 min ⁻¹ (r.p.m.)
Allowable radial load (allowable coupling axis reaction) Note 4)	1N	15N	30N	40N	50N
Weight	0.025kg	0.16kg	0.39kg	0.76kg	1.26kg

Note 1) The temperature 80°C includes temperature rise during rotation.

Note 2) The rotational torque does not change with the supply pressure or with non-use (remains within allowable torque), but it does change with the rotational speed. (Refer to page 2).

Note 3) If using at a speed above 600 min⁻¹ (r.p.m.), ensure rotation is in the direction in which the joint is fastened.

Note 4) Rubber / resin couplings are recommended due to their excellent absorption of off center, shocks, and vibrations.