

Metal Seal Type

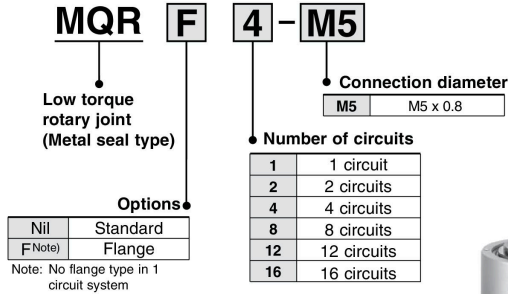
Low Torque Rotary Joint

MQR Series

RoHS

1 circuit, 2 circuits, 4 circuits, 8 circuits, 12 circuits, 16 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
16 circuits	MQR16-F



Specifications

Model	MQR1-M5	MQR2-M5	MQR4-M5	MQR8-M5	MQR12-M5	MQR16-M5
Number of circuits (Number of ports)	1	2	4	8	12	16
Fluid	Air					
Seal structure	Metal seal					
Guide structure	Bearing supported	Bearing supported at both ends				
Port size	Male R 1/8	M5 x 0.8				
	Female M5 x 0.8					
Flow rate characteristics	C	0.50 [dm ³ /(s·bar)]				
	b	0.40				
	Cv	0.17				
Lubrication	Not required					
Min. operating pressure	-100 kPa					
Max. operating pressure	1.0 MPa					
Ambient temperature and operating fluid temperature (Note 1)	-10 to 80°C					
Maximum start-up rotation 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	0.50 N·m or less
Allowable rotation number (Note 5)	3000 min ⁻¹ (rpm) or less (Note 3)	2000 min ⁻¹ (rpm) or less	1500 min ⁻¹ (rpm) or less	900 min ⁻¹ (rpm) or less	600 min ⁻¹ (rpm) or less	200 min ⁻¹ (rpm) or less
Allowable radial load (allowable coupling axis reaction) (Note 4)	1 N or less	15 N or less	30 N or less	40 N or less	50 N or less	50 N or less
Allowable axial load						
Weight	0.025 kg	0.16 kg	0.39 kg	0.76 kg	1.26 kg	2.80 kg

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

Note 2) The start-up torque does not change with the supply pressure or with non-use (remains within the maximum start-up rotation torque), but it does change with the rotation number. (Refer to page 450).

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.

Note 5) min⁻¹: Number of rotations per 1 minute

KQ2

KQB2

KS
KX

KM

KF

M

H/DL
L/LL

KC

KK

KK130

DM

KDM

KB

KR

KA

KQG2

KG

KFG2

MS

KKA

KP

LQ

MQR

T

IDK