

Metal Seal
Type

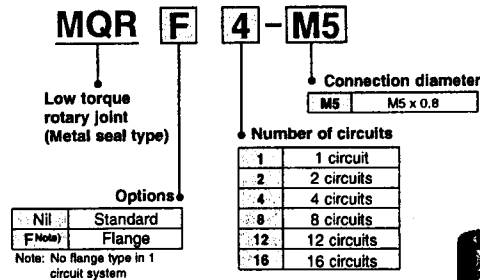
Low Torque Rotary Joint

MQR Series

RoHS

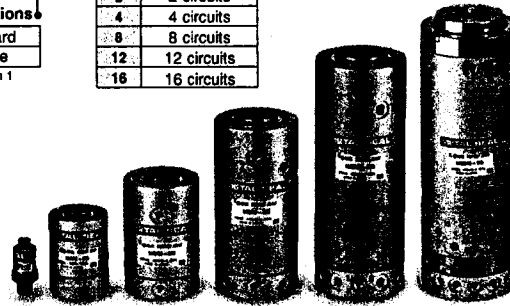
1 circuit, 2 circuits, 4 circuits, 8 circuits, 12 circuits, 16 circuits

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 3)		3000 min ⁻¹ (rpm) or less (Note 5)	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/L
KC
KK
KK130
DM
KDM
KB
KR
KA
KQ62
KG
KFG2
MS
KKA
KP
LQ
MQR
T
IDK