



Our core technology gets the job done. Optimized solenoids for the application!



Characteristics of high-response specifications

- High response2±0.5 ms/1±0.5 ms (ON/OFF)
- Long service life 100 million cycles
- Coil surge voltage reduced

Applications





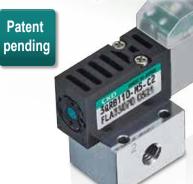


Taping machine

For battery drive/continuous energizing

3QR Wide power supply specifications

Industry first
Multi-voltage solenoid



Characteristics of wide power supply specifications

- Can be used with 5 to 32 VDCIdeal for battery drive
- Proprietary electronic circuit technology enables stable operation even with voltage fluctuations
- Continuous energization enabled at low heat generation (0.9 W)



3QR high-response specifications/wide power supply specifications [Made-to-order product]

CKD Corporation

https://www.ckd.co.jp/english/

Contact CKD regarding made-to-order products.

3QR high-response specifications/wide power supply specifications [Made-to-order product]

Common specifications

Item	Description			
пеш	High-response specifications	Wide power supply specifications		
Valve and operation	Direct acting poppet valve			
Working fluid	Compressed air, low vacuum			
Min. working pressure MPa	-100 kPa			
Max. working pressure MPa	0.7 MPa			
Proof pressure MPa	1.05 MPa			
Ambient temperature °C	-5 to 40°C (no freezing)	-5 to 50°C (no freezing)		
Fluid temperature °C	5 to 40	5 to 50		
Lubrication	Not available			
Degree of protection	Dust-proof			
Vibration resistance m/s	50 or less			
Impact resistance m/s2	300 or less			
Atmosphere	Cannot be used in corrosive gas environments			

Electrical specifications

Item		Description			
		High-response specifications	Wide power supply specifications		
Rated voltage	٧	DC24	DC5 to 32		
Voltage fluctuation range		-10% to +4%	=		
Starting current	Α	0.38	0.4		
Holding current	Α	0.15	0.26		
Power consumption (retained)	W	2.6	0.9		
Startup time	ms	5	50		
Thermal class		В			

- *1: High-response specifications cannot be used with continuous energization. Maximum continuously energized time 5 mins.
- *2: Free power supply specifications can be used with continuous energization, but as deterioration progresses with accumulated energized time, the life operational cycle will decrease.
- *3: Sales will take place following the exchange of specification documents.

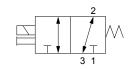
Performance characteristics

Item		Description				
		High-response specifications		Wide power supply specifications		
		Direct piping	Base piping	Direct piping	Base piping	
D**4	ON: 2 ±0.5 ms		ON: 5 ms or less			
Response time *4 ms		OFF: 1 ±0.5 ms		OFF: 10 ms or less		
characteristics	Flow path 1 → 2	0.36	0.36	0.30	0.30	
	Flow path 2 → 1	0.38	0.40	0.32	0.34	
	Flow path 2 → 3	0.38	0.40	0.32	0.36	
	Flow path 3 → 2	0.36	0.40	0.30	0.34	

^{*4:} According to JIS B 8419:2010 Dynamic performance testing

(Initial values at supply pressure 0.5 MPa, 20°C, no lubrication, constant voltage (24 VDC), continuously energized operation)

2-position universal

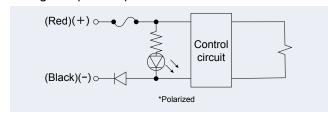


Port numbers 1, 2, and 3 are

Port 1: P, NC Port 2: A, COM Port 3: R, NO.

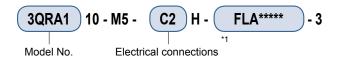
Connection circuit

High-response specifications

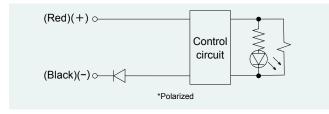


How to order

High-response specifications

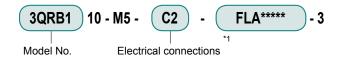


Wide power supply specifications



Both high-response and wide power supply specifications have polarity. Note that they will not operate if miswired.

Free power supply specifications



- *1: After the order model No. is selected, CKD will enter a five-digit number into the **** section.
- *2: "Large flow rate H" cannot be selected with free power supply specifications.
- *3: Manifold specifications can also be selected.
- *4: Only 24 VDC is available for high-response specification voltage.

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