

Rotary actuator Rack & pinion type

RRC Series

● Size: 8, 32, 63

Oscillating angle: 90°, 180°, 270°







Specifications

NHS HR LN

FH100 HAP BSA2 BHA/ BHG LHA LHAG HKP

HLAG. HLBG HEP HCP **HMF HMFB** HFP HLC HGP

FH500

HBI

HDL HMD

HJL

BHE CKG CK CKA CKS

CKF

CKJ CKL2

CKH2 CKLB2 NCK/ SCK/FCK FJ FK Ending

Opcomoduc							
Descriptions		RRC					
Size		8	32	63			
Effective torque Note 1	N⋅m	0.7	0.7 3.1 5.6				
Actuation		Rack & pinion type					
Working fluid		Compressed air					
Max. working pressure	e MPa	1.0					
Min. working pressure Note	² MPa	0.1					
Withstanding pressure	e MPa	1.6					
Ambient temperature °C		-10 to 60 (no freezing)					
Port size		Rc1/8					
Oscillating angle tolerance Degree		90^{+8}_{+1} , 180^{+8}_{+1} , 270^{+8}_{+1}					
Cushion		Rubber cushion	Air cushion				
Effective cushion length mm		-	4.8	5.8			
Allowable energy absorption J		0.05	0.21	0.41			
Volumetric capacity cm ³	90°	3	12	22			
	180°	6	24	44			
	270°	9	36	66			
Lubrication		Not required (when lubricating, use turbine oil ISOVG32.)					

Note 1: An effective torque value is a product at working pressure 0.5MPa.

Note 2: When using RRC-8 with maximum oscillating angle, working pressure to be 0.3MPa and over.

Note 3: Adjustable angle is available as an option. Refer to page 13.

Maximum load Load which applies to shaft to be following number or less.

			Unit: N
Model no. Load direction	RRC-8	RRC-32	RRC-63
Thrust load F1	9.8	39.2	58.8
Radial load F2	19.6	78.4	117.6



Switch specifications

1 color/2 color indicator

T COION TO COION INCICATOR											
Descriptions	Proximity 2 wire			Proximity 3 wire		Reed 2 wire					
Descriptions	T1H/T1V	T2H/T2V	T2YH/T2YV	T3H/T3V	T3YH/T3YV	T0H/	T0V	T5H/T	5V	T81	H/T8V
Annlications	Programmable controller,	Programmable		Programmable controller,				Programmable con			
	relay, small solenoid valve	controller		relay		relay		IC circuit (without indicator light), serial connection Programmable con		e controller, relay	
Output method	-	- NPN output			-						
Power voltage	-		-	10 to 2	10 to 28 VDC		<u>-</u>				
Load voltage	85 to 265 VAC	10 to 30 VDC		30 VDC	or less	12/24 VDC	110 VAC	5/12/24 VDC 1	10 VAC	12/24 VDC 110	VAC 220 VAC
Load current	5 to 100mA	5 to 20m/	A (Note 1)	100mA or less 50mA or less 5 to 50mA 7 to 20mA 50mA or less 20mA or less		5 to 50mA 7 to	20mA 7 to 10mA				
Current consumption	-	- 10mA or less w			with 24 VDC					-	
Internal voltage drop	7V or less	4V o	r less	0.5V	or less	2.4V or less 0V 3V or		or less			
Light	LED	LED	Red/green LED	LED	Red/green LED	LE	D	Without indic	otor light	L	.ED
	(ON lighting)	(ON lighting)	(ON lighting)	(ON lighting)	(ON lighting)	(ON lig	hting)	without indic	ator light	(ON	ighting)
Leakage current	1mA or less with 100 VAC	1m \(\Delta \) or loce		10μA or less		0mA					
Leakage current	2mA or less with 200 VAC										

Note 1: The maximum load current 20mA above is applied at 25°C. The current will be lower than 20mA if ambient temperature around switch is higher than 25°C. (5 to 10mA when 60°C)

Note 2: Refer to Ending 1 for other switch specifications.

Cylinder weight

Unit: kg

Onit: kg									
Oscillating angle Model no. 90°	OO°	180°	270°	Switch weight	Switch bracket				
	160	210	(per switch)	90°	180°	270°			
RRC-8	0.39	0.43	0.49		0.005				
RRC-32	1.02	1.23	1.45	0.018	0.011	0.013	0.015		
RRC-63	1.68	2.03	2.37		0.012	0.014	0.016		

Product weight: 0.39kg Switch weight: 0.018×2 pcs. = 0.036 kg Switch bracket weight: 0.005×2 pcs. = 0.010 kg Product weight: 0.39 kg + 0.036 kg + 0.010 kg = 0.436 kg

(E.g.) Product weight of RRC-8-90-T2H-D

RRC Series

How to order

RRC

GRC

RV3*

HR

LN

FH100

HAP

BSA2

BHA/ BHG

LHA

LHAG

HKP

HLAG HLBG

HEP

HCP

HMF

HMFB

HFP

HLC

HGP

FH500

HBL

HDI

HMD

HJL

вне

CKG

CK

CKA

CKS

CKF CKJ

CKL2

CKH2

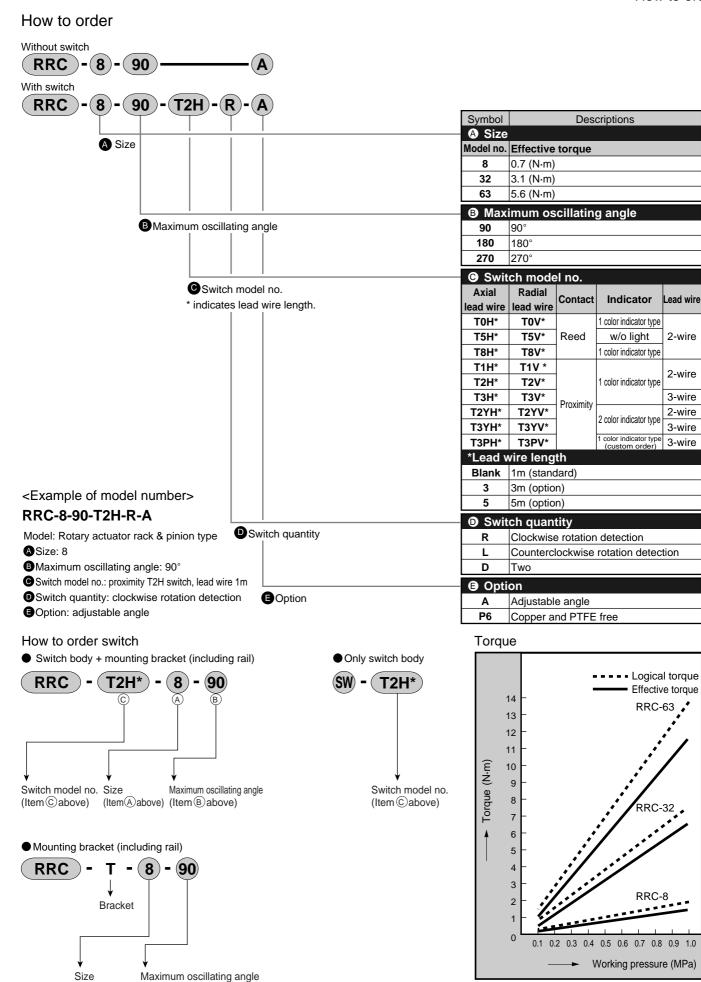
CKLB2

FJ

FΚ

Ending

Rotary actuator Oscillation, rotation drive type



(Item (Aabove) (Item (Babove)