

Discontinue



Fine speed fan rotary actuator Shaft

SFR Series

Fine speed fan rotary actuator Table

SFRT Series

● Size: 3/10/20

JIS symbol



RoHS

Specifications

Descriptions			SFR-3	SFR-10	SFR-20	SFRT-3	SFRT-10	SFRT-20
Size			3	10	20	3	10	20
Effective torque	*1	90°	0.47	1.44	2.71	0.47	1.44	2.71
	N·m	180°	0.35	1.08	2.03	0.35	1.08	2.03
Working fluid			Compressed air					
Actuation	90°		Vane					
	180°		Vane, pinion gear combined					
Max. working pressure		MPa	0.7					
Min. working pressure		MPa	0.1					
Proof pressure		MPa	1.05					
Ambient temperature		°C	0 to 60 (no freezing)					
Port size			M5					
Allowable absorbed energy		mJ	0.8	1.7	3.5	1.3	6.3	9.6
Lubrication			Not available					
Volumetric capacity		cm³	3.7	9.1	19.4	3.7	9.1	19.4
Product weight	90°	g	70	120	250	200	350	560
	180°	g	120	220	430	230	430	690
Allowable radial load		*2 N	40	50	300	40	50	60
Allowable thrust load		*2 N	13	16	20	30	60	80
Allowable moment		N·m	-			0.7	0.9	2.9
Oscillating angle	90°		-			90°±5°		
adjusting range	180°		-			180°±5°		
Oscillating time adjusting range		sec/90°	0.07 to 1.5					
Table deflection		mm	-			0.03		
Backlash (SFR-180 type only)		*3	1.5° or less	2.5° or less	2.5° or less	-	-	-

*1: Effective torque is when at working pressure 0.5 MPa.

*2: Allowable radial load and allowable thrust load of SFR is not the dynamic load value.

*3: The backlash value is for reference.

* Oscillating angle of SFR-□-180 shaft is 190°.

Rotary
actuator

SFR/SFRT Series

Compatibility table by variation

Applicable bore size		Shaft	Table
		SFR	SFRT
Torque 0.35 to 2.71 N·m	P4	●	●

● : Standard ○ : Made to order ▲ : Contact CKD □ : Not applicable

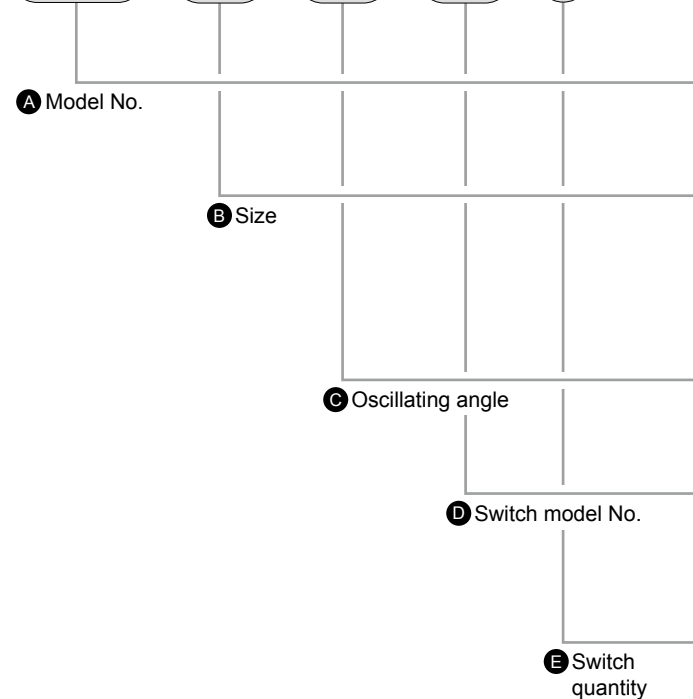
How to order

● Without switch

SFR - **10** - **90** ————— **P4**

● With switch

SFRT - **20** - **180** - **SWAP** - **D** - **P4**



Code	Content
A Model No.	
SFR	Shaft
SFRT	Table
B Size	
Size	Effective torque (at 0.5 MPa)
3	0.3 [N·m]
10	1.0 [N·m]
20	2.0 [N·m]
C Oscillating angle	
90	90°
180	180°
D Switch model No.	
Refer to the compatibility table on Intro Pages 21 to 24 for switch model No.	
E Switch quantity	
R	With clockwise rotation detection 1 piece
L	With counterclockwise rotation detection 1 piece
D	2