

# SANKYO 5TF TORQUE LIMITER

Unit : mm

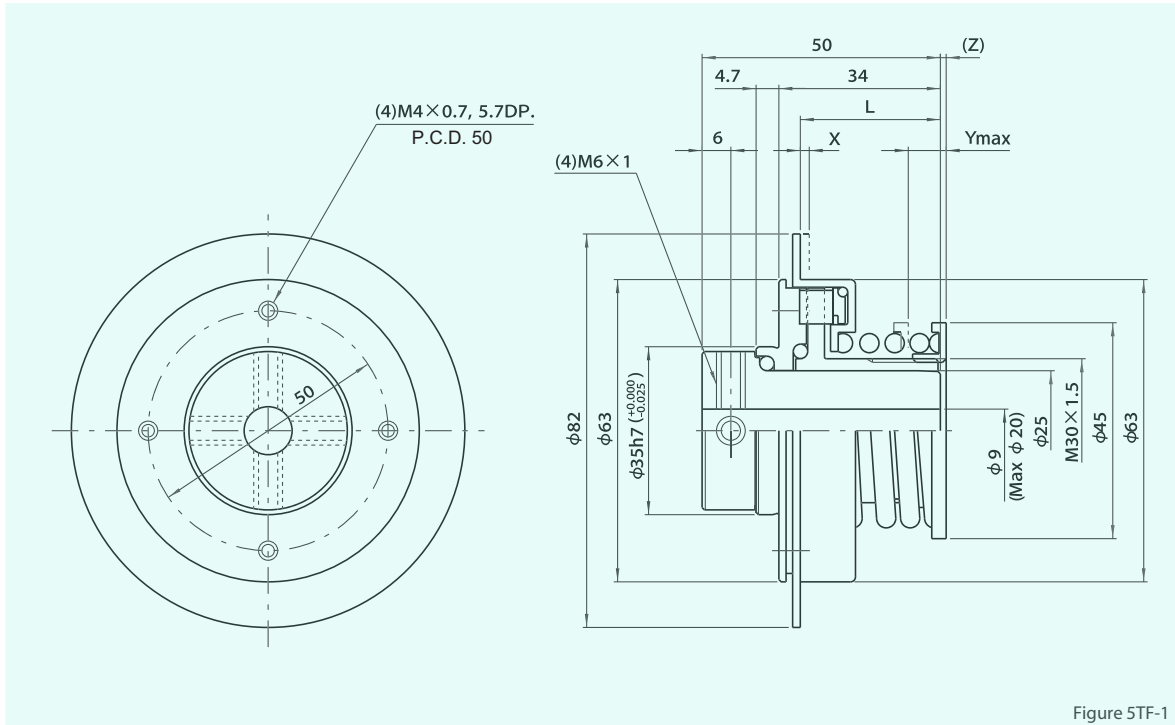
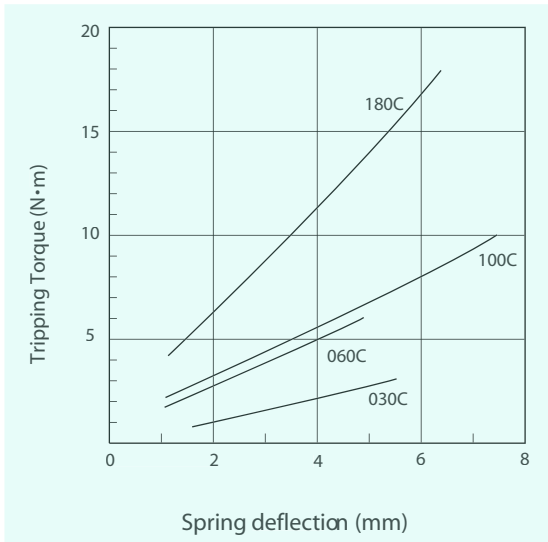


Figure 5TF-1

## Torque diagram

Figure 5TF-2



## Dimensions

Table 5TF-1

Model	Range of tripping torque(N·m)	L (mm)	X (mm)	Ymax (mm)	Z (mm)
5TF-030C	0.8 ~ 3.0	29.0	0.9	5.6	1.3
-060C	1.5 ~ 6.0	29.5	1.4	5.0	0.8
-100C	2.0 ~ 10.0	29.0	0.9	7.5	1.3
-180C	4.0 ~ 18.0	29.5	1.4	6.4	0.8

## Specifications

Table 5TF-2

Item	Unit	Value
Pitch of thread	mm	1.5
Max. allowable radial load	N	108
Max. allowable thrust load	N	569
Max. allowable bendingmoment	N·m	69
Max. revolution per minute	r.p.m.	1600
Moment of inertia	kg·m <sup>2</sup>	2.4 x 10 <sup>-4</sup>
Mass	kg	0.50

### NOTE

1. Use only recommended shaft fastening devices match the torque requirement, compression type fasteners are a good alternative to keyways types.
2. Measure hole depth before selecting the bolt length.
3. Lock the adjusting nut after setting the torque
4. Torque is set to minimum unless preset is specified.

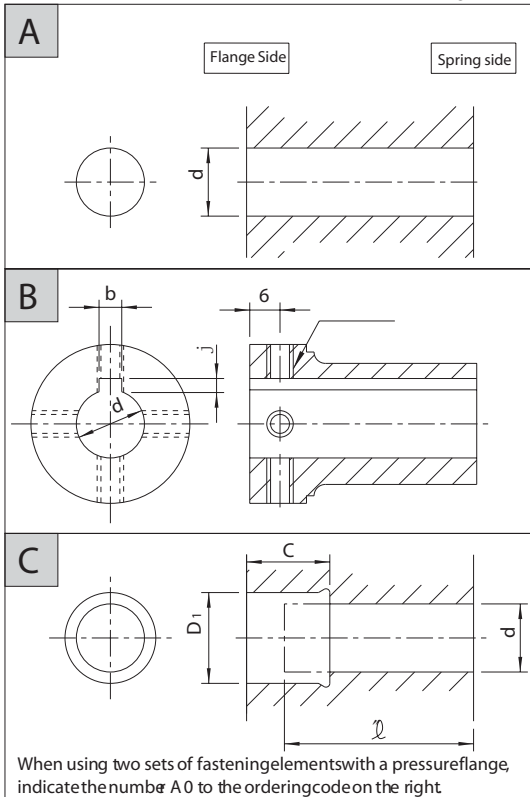
X : Denotes amount of movement when an overload occurs. Optional monitoring sensors can input to the controller to stop the machine.

(Z) : Denotes when the spring height is torque free and should be a reference when calculating tripping torques.

Ymax : Denotes the amount of turns the torque adjustment nut must be turned to obtain maximum tripping torque. Tightening beyond this amount can prevent the torque limiter from tripping.

Shaft hole dimensions

Figure STF-3



Shaft hole dimension ordering codes

Unit : mm

Table STF-3

No.	d	Code No.	
1	12H 7	05TF -12H 7	
2	14H 7	-14H 7	
3	15H 7	-15H 7	
4	16H 7	-16H 7	
5	17H 7	-17H 7	
6	18H 7	-18H 7	
7	19H 7	-19H 7	
8	20H 7	-20H 7	

No.	d	b x h	Code No.
1	14H 7	5Js 9 x 23	05TF -14K 5 J M6 4
2	15H 7	"	-15K 5 J M6 4
3	16H 7	"	-16K 5 J M6 4
4	17H 7	"	-17K 5 J M6 4

No.	d	D <sub>1</sub>	C	ℓ	Code No.
1	12H 7	15H 7	21	40	05TF -S121521
2	14H 7	18H 7	25		-S141825
3	15H 7	19H 7			-S151925
4	16H 7	20H 7			-S162025

(Note) The codes shown here are for standard hole drilling specifications. The counter-sink depth depends on the length of the shaft  $\ell$  and the depth of the Ringfeder.