



SANKYO 6TF

TORQUE LIMITER

6TF Dimension

Unit : mm

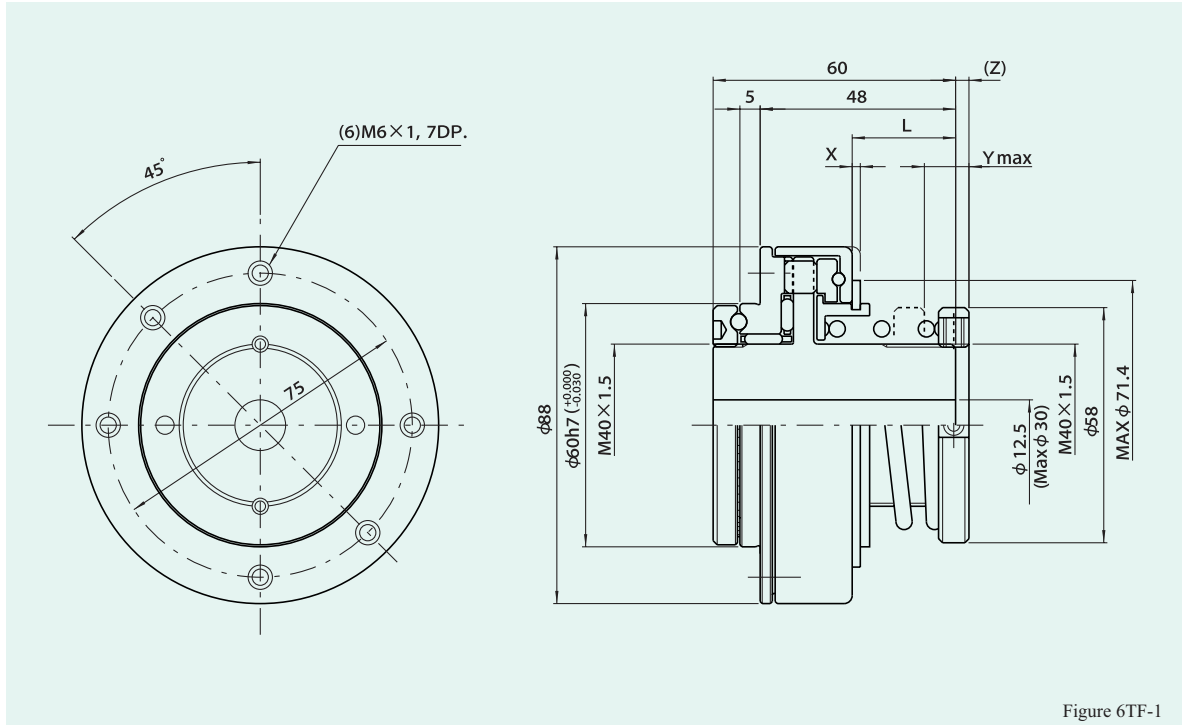
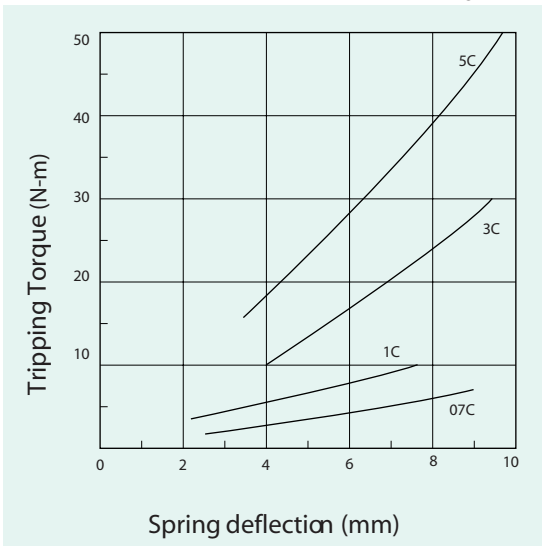


Figure 6TF-1

Torque Diagram

Figure 6TF-2



NOTE

1. Use only recommended shaft fastening devices to match the torque requirement, compression ring 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.

Dimensions

Table 6TF-1

Model	Range of tripping torque(N·m)	L (mm)	X (mm)	Ymax (mm)	(Z) (mm)
6TF-07C	2 ~ 7	25.0	1.3	9.0	3.9
- 1C	3 ~ 10	25.5	2	7.6	3.2
- 3C	10 ~ 30	25.0	1.3	9.5	3.9
- 5C	15 ~ 50	25.5	2	9.8	3.2

Specifications

Table 6TF-2

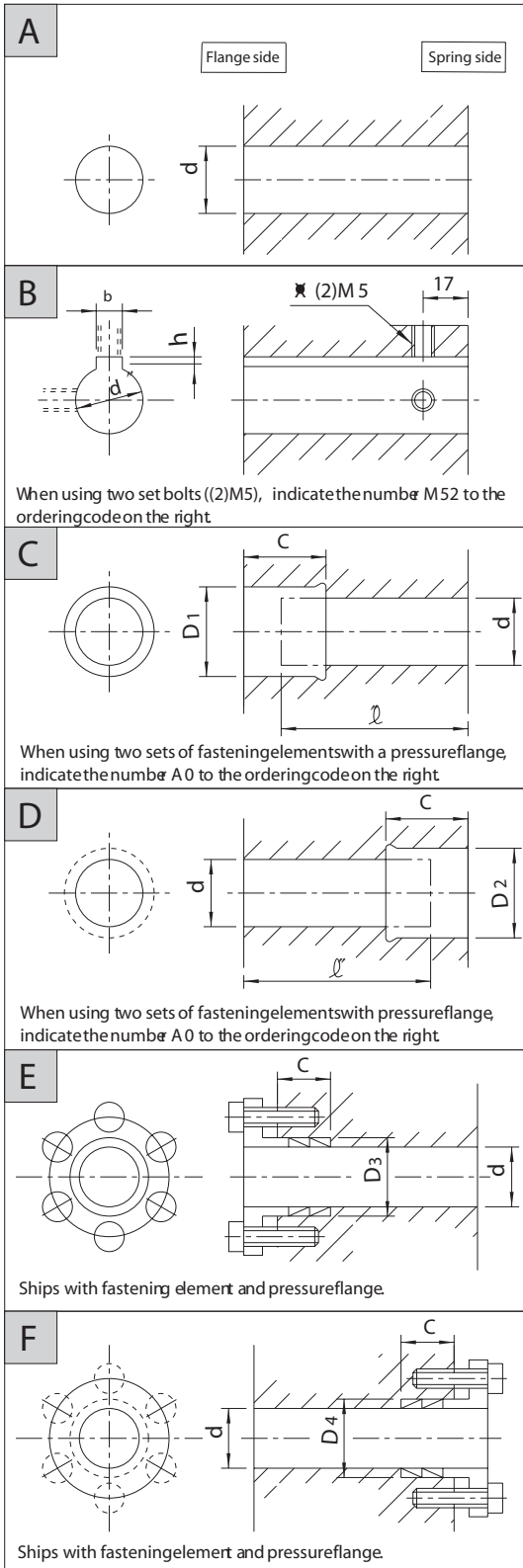
Item	Unit	Value
Pitch of thread	mm	1.5
Max. allowable radial load	N	3822
Max. allowable thrust load	N	7938
Max. allowable bending movement	N·m	118
Max. revolution per minute	r.p.m.	800
Moment of inertia	kg·m ²	1.3 x 10 ⁻³
Mass	kg	1.5

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



Shaft hole dimension ordering codes

Unit : mm Table 6TF-3

No.	d	Code No.	
1	15H 7	06TF-15H 7	
2	16H 7	-16H 7	
3	18H 7	-18H 7	
4	20H 7	-20H 7	
5	22H 7	-22H 7	
6	25H 7	-25H 7	
7	30H 7	-30H 7	

No.	d	b x h	Code No.
1	15H 7	5Js 9 X 23	06TF-15K 5 J
2	16H 7	"	-16K 5 J
3	17H 7	"	-17K 5 J
4	18H 7	6Js 9 X 28	-18K 6 J
5	20H 7	"	-20K 6 J
6	"	7Js 9 X 33	-20K 7 J
7	22H 7	"	-22K 7 J
8	24H 7	"	-24K 7 J
9	25H 7	"	-25K 7 J
10	"	8Js 9 X 33	-25K 8 J

No.	d	D1	C	ℓ	Code No.
1	16H 7	20H 7	35	40	06TF-S 162035
2	17H 7	21H 7	"	"	-S 172135
3	18H 7	22H 7	"	"	-S 182235
4	20H 7	25H 7	"	"	-S 202535
5	22H 7	26H 7	"	"	-S 222635
6	24H 7	28H 7	"	"	-S 242835
7	25H 7	30H 7	26	50	-S 253026

No.	d	D2	C	ℓ	Code No.
1	16H 7	20H 7	35	40	06TF-G 162035
2	17H 7	21H 7	"	"	-G 172135
3	18H 7	22H 7	"	"	-G 182235
4	20H 7	25H 7	"	"	-G 202535
5	22H 7	26H 7	"	"	-G 222635
6	24H 7	28H 7	"	"	-G 242835
7	25H 7	30H 7	"	"	-G 253035

No.	d	D3	C	Code No.
1	16H 7	20H 7	15	06TF-S 162015 B 0
2	17H 7	21H 7	"	-S 172115 B 1
3	18H 7	22H 7	"	-S 182215 B 1
4	20H 7	25H 7	"	-S 202515 B 1

No.	d	D4	C	Code No.
1	16H 7	20H 7	15	06TF-G 162015 B 0
2	17H 7	21H 7	"	-G 172115 B 1
3	18H 7	22H 7	"	-G 182215 B 1
4	20H 7	25H 7	"	-G 202515 B 1
5	22H 7	26H 7	"	-G 222615 B 1

(Note) The codes shown here are for standard hole drilling specifications. The countersink depth depends on the length of the shaft ℓ and the depth of the Ringfeder.