



6TC Dimension

Unit : mm

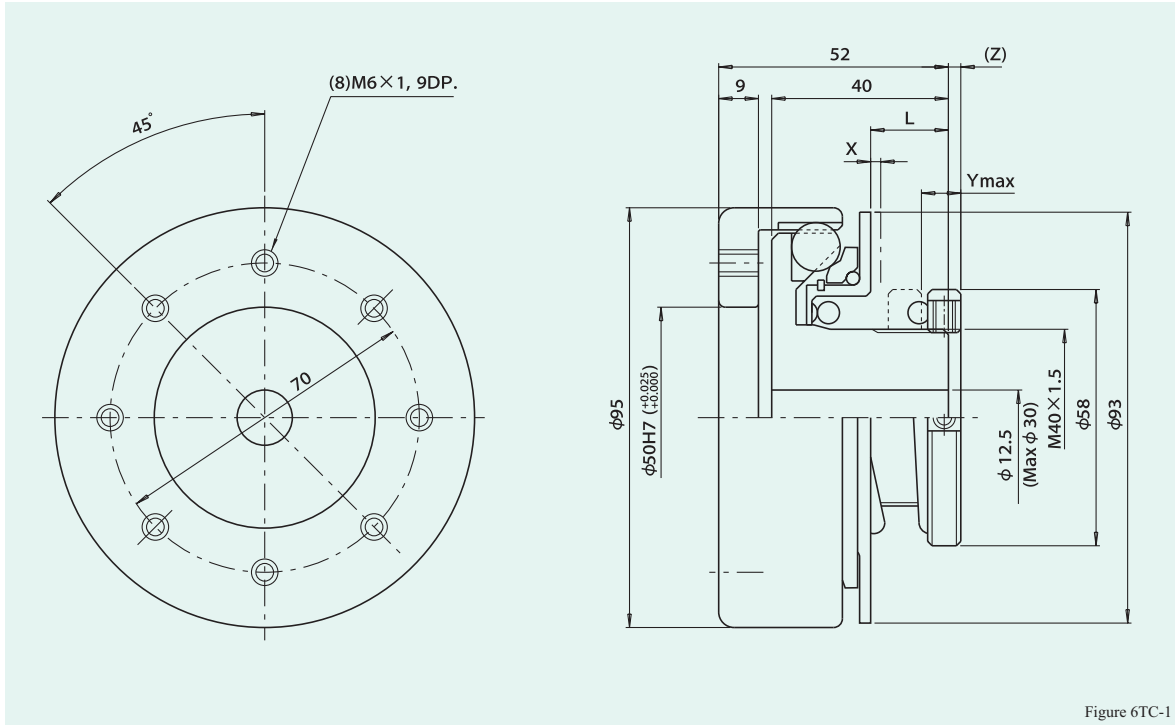
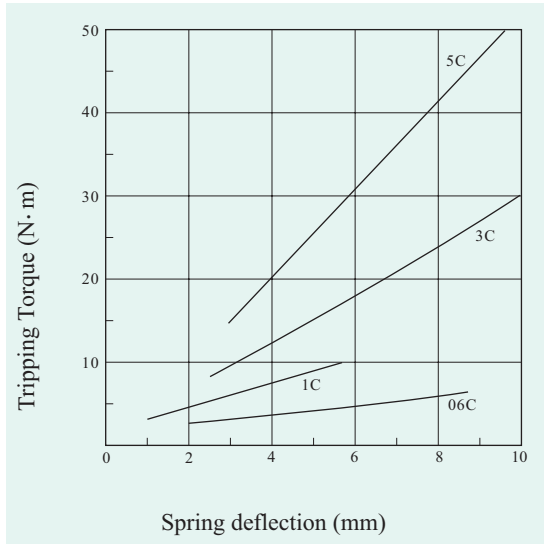


Figure 6TC-1

Torque diagram

Figure 6TC-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 6TC-1

Model	Range of tripping torque (N·m)	L (mm)	X (mm)	Ymax (mm)	(Z) (mm)
6TC-060C	2 ~ 6	18.5	1.4	8.7	3.2
-1C	3 ~ 10	19.0	2.2	5.7	2.8
-3C	8 ~ 30	18.5	1.4	10.0	3.2
-5C	15 ~ 50	19.0	2.2	9.6	2.8

Specifications

Table 6TC-2

Item	Unit	Value
Pitch of thread	mm	1.5
Max. allowable angle error	deg	1.5
Max. allowable space error	mm	±1.5
Max. allowable parallel offset	mm	0.05
Max. revolution per minute	r.p.m	1000
Moment of inertia	kg·m ²	1.7 x 10 ⁻³
Mass	kg	1.5

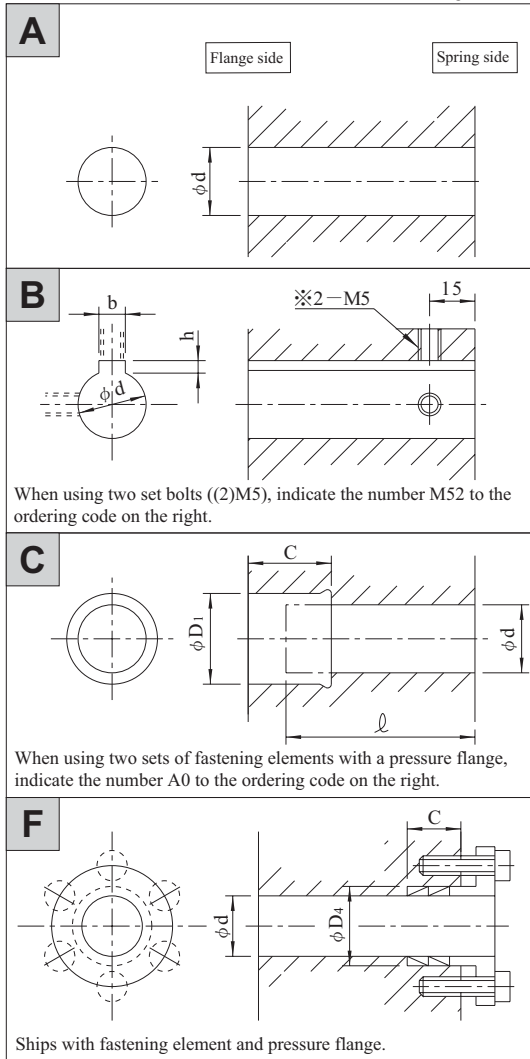
X : Denotes amount of movement when an overload occurs.
Optional monitoring sensors can input to the controller to stop the machine.

(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

Figure 6TC-3



Shaft hole dimension ordering codes

Unit : mm

Table 6TC-3

A	No.	φ d	Code No.			
	1	15H 7	06TC -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			
B	No.	φ d	b × h	Code No.		
	1	15H 7	5Js9 × 2.3	06TC -15K 5 J		
	2	16H 7	"	-16K 5 J		
	3	17H 7	"	-17K 5 J		
	4	18H 7	6Js9 × 2.8	-18K 6 J		
	5	20H 7	"	-20K 6 J		
	6	20H 7	7Js9 × 3.3	-20K 7 J		
	7	22H 7	"	-22K 7 J		
	8	24H 7	"	-24K 7 J		
	9	25H 7	"	-25K 7 J		
10	25H 7	8 Js9 × 3.3	-25K 8 J			
C	No.	φ d	φ D1	C	ℓ	Code No.
	1	16H 7	20H 7	23	32	06TC -S 162023
	2	17H 7	21H 7	"	"	-S 172123
	3	18H 7	22H 7	"	"	-S 182223
	4	20H 7	25H 7	25	30	-S 202525
	5	22H 7	26H 7	"	"	-S 222625
	6	24H 7	28H 7	"	"	-S 242825
7	25H 7	30H 7	"	"	-S 253025	
F	No.	φ d	φ D4	C	Code No.	
	1	16H 7	20H 7	15	06TC -G 162015B 0	
	2	17H 7	21H 7	"	-G 172115B 1	
	3	18H 7	22H 7	"	-G 182215B 1	
	4	20H 7	25H 7	"	-G 202515B 1	
5	22H 7	26H 7	"	-G 222615B 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.

Option

Shaft mounting flange

Code No.

06TC-C □ O

Note) pressed flange and 2 sets of fastening elements are attached.

φ d (mm)	C ± 0.2 (mm)	Reference transmitted torque (N·m)	※ Reference torque for fastening bolt (N·m)
φ 16 ^{+0.018} / _{+0.0}	16	69	8.3
φ 20 ^{+0.021} / _{+0.0}	16	141	8.3
φ 25 ^{+0.021} / _{+0.0}	17	186	8.3

※Please refer to DIN912-10.9 for torque fastening bolt.

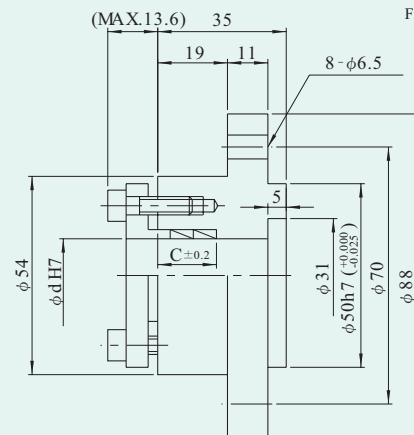


Figure 6TC-4