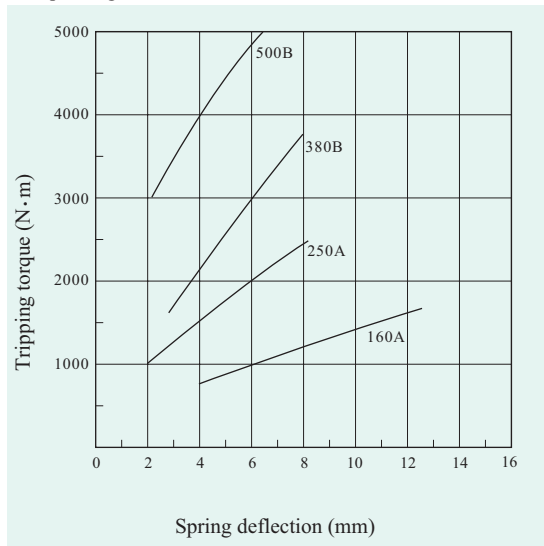


Figure 18TC-1

Torque diagram

Figure 18TC-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 18TC-1

Model	Range of tripping torque (N·m)	L (mm)	X (mm)	Ymax (mm)	(Z) (mm)
18TC-160A	700 ~ 1600	59.0	3.7	12.5	4.8
-250A	1000 ~ 2500	59.0	6.2	8.3	5.0
-380B	1600 ~ 3800	59.0	3.7	8.0	5.0
-500B	3000 ~ 5000	59.0	6.2	6.5	5.2

Specifications

Table 18TC-2

Item	Unit	Value
Pitch of thread	mm	3
Max. allowable angle error	deg	0.5
Max. allowable space error	mm	+3.5
Max. allowable parallel offset	mm	0.1
Max. revolution per minute	r.p.m	200
Moment of inertia	kg·m ²	0.4
Mass	kg	45

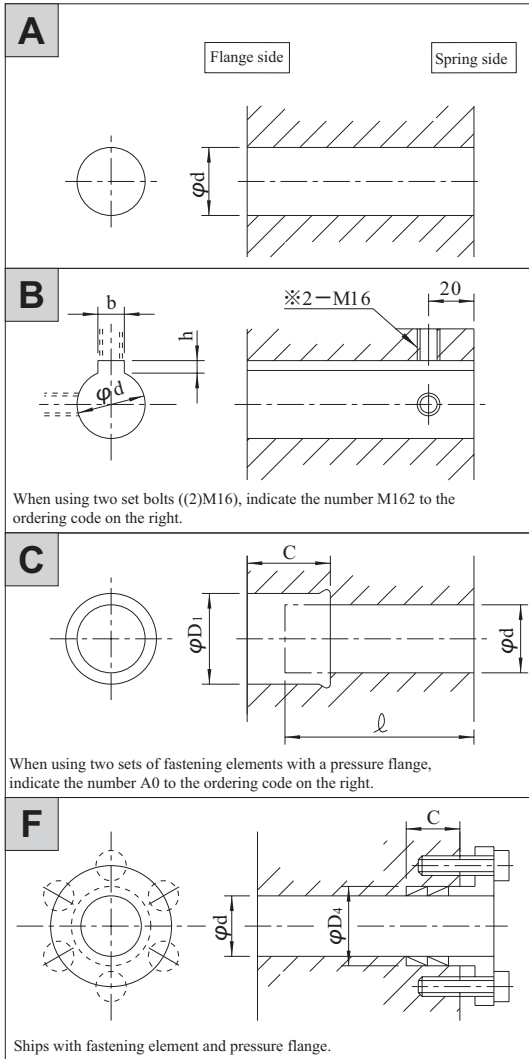
X : Denotes amount of movement when an overload occurs. Optional monitoring sensors can input to the controller to stop the machine.

(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 18TC-3



Shaft hole dimension ordering codes

Unit : mm

Table 18TC-3

Nb.	ϕd	Code No.			
1	60H 7	18TC -60H 7			
2	65H 7	-65H 7			
3	70H 7	-70H 7			
4	75H 7	-75H 7			
5	80H 7	-80H 7			
Nb.	ϕd	b × h	Code No.		
1	60H 7	1 8Js9 × 4.4	18TC -60K 18J		
2	65H 7	"	-65K 18J		
3	70H 7	20Js9 × 4.9	-70K 20J		
4	75H 7	"	-75K 20J		
5	80H 7	22Js9 × 5.4	-80K 22J		
6	85H 7	"	-85K 22J		
7	90H 7	2 5Js9 × 5.4	-90K 25J		
Nb.	ϕd	ϕD_1	C	ℓ	Code No.
1	60H 7	68H 8	58	80	18TC -S 606858
2	60H 7	90H 8	35	100	-S 609035
3	70H 7	79H 8	61	80	-S 707961
4	70H 7	110H 8	40	1 00	-S 7011040
5	80H 7	9 1H 8	6 9	8 0	-S 809169
6	85H 7	120H 8	40	100	-S 8012040
7	90H 7	101H 8	79	7 0	-S 9010179
8	90H 7	130H 8	40	1 00	-S 9013040
Nb.	ϕd	ϕD_4	C	Code No.	
1	60H 7	6 8H 8	29	18TC -G 606829B 0	
2	70H 7	79H 8	33	-G 707933B 0	
3	80H 7	9 1H 8	39	-G 809139B 0	
4	90H 7	1 01H 8	"	-G 9010139B 0	

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

Option

Shaft mounting flange

Figure 18TC-4

Code No.)

18TC-C d O

Note) 1 set of fastening elements are attached.

ϕd (mm)	C ± 0.2 (mm)	Reference transmitted torque (N·m)	※ Reference torque for fastening bolt (N·m)
$\phi 60$ $\begin{matrix} +0.030 \\ +0.0 \end{matrix}$	35	2421	34
$\phi 70$ $\begin{matrix} +0.030 \\ +0.0 \end{matrix}$	40	4508	69
$\phi 80$ $\begin{matrix} +0.030 \\ +0.0 \end{matrix}$	40	5096	69
$\phi 90$ $\begin{matrix} +0.035 \\ +0.0 \end{matrix}$	40	6468	69

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

