SANKYO 18TF TORQUE LIMITER

18TF Dimension

Unit : mm

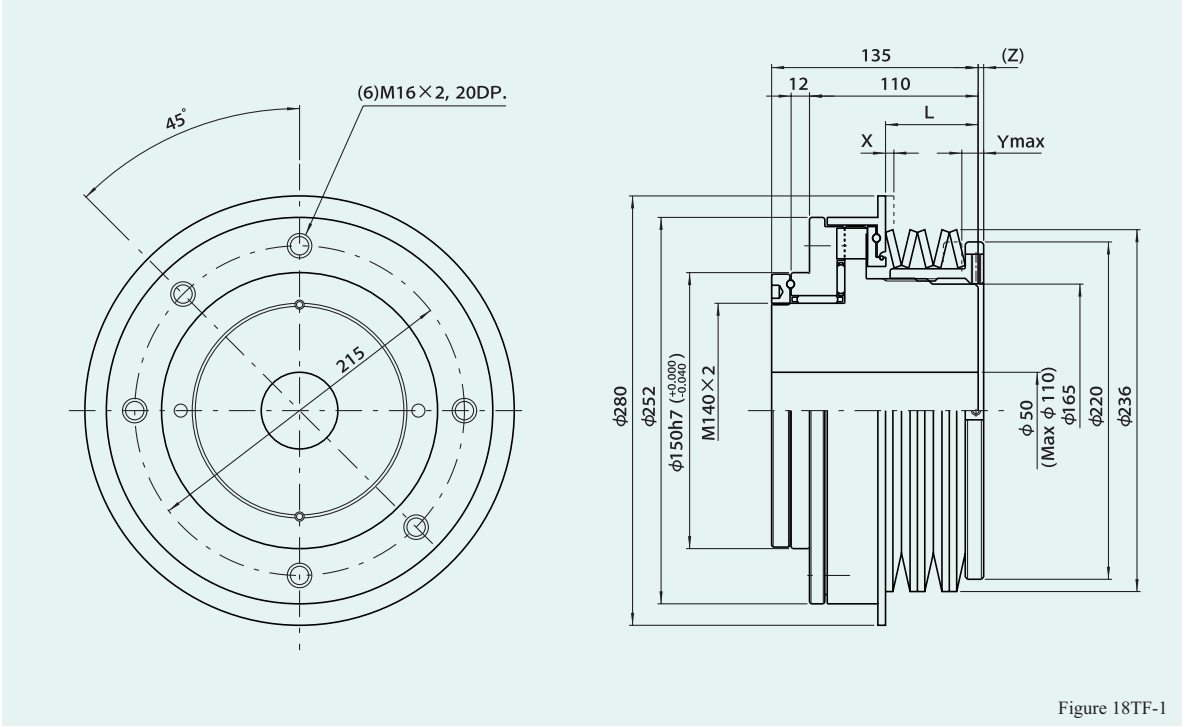
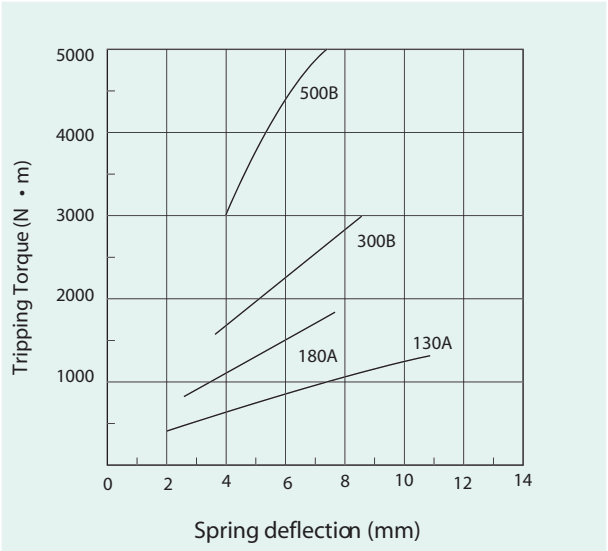


Figure 18TF-1

Torque Diagram

Figure 18TF- 2



Dimensions

Table 18TF- 1

Model	Range of tripping torque(N・m)	L (mm)	X (mm)	Ymax (mm)	(Z) (mm)
18TF-130A	400 ~ 1300	59.0	3.3	10.7	5.0
-180A	800 ~ 1800	60.5	5	7.7	3.3
-300B	1500 ~ 3000	59.0	3.3	8.8	5.2
-500B	3000 ~ 5000	60.5	5	7.7	3.5

Specification s

Table 18TF- 2

Item	Unit	Valu e
Pitch of thread	mm	3
Max. allowable radial load	N	30184
Max. allowable thrust load	N	35280
Max. allowable bendingmomert	N・m	1441
Max. revolution per minute	r.p.m.	180
Moment of inertia	kg・m^{-2}	0.3
Mass	kg	42

NOT E

1. Use only recommended shaft fastening devices to matchthe torquerequirement,compressionring type fasteners are a goodalternative to keyways types.
2. Measure hole depthbeforeselecting the bolt length.
3. Lock the adjustingnut after setting the torque
4. Torque is set to minimumunless preset is specified.

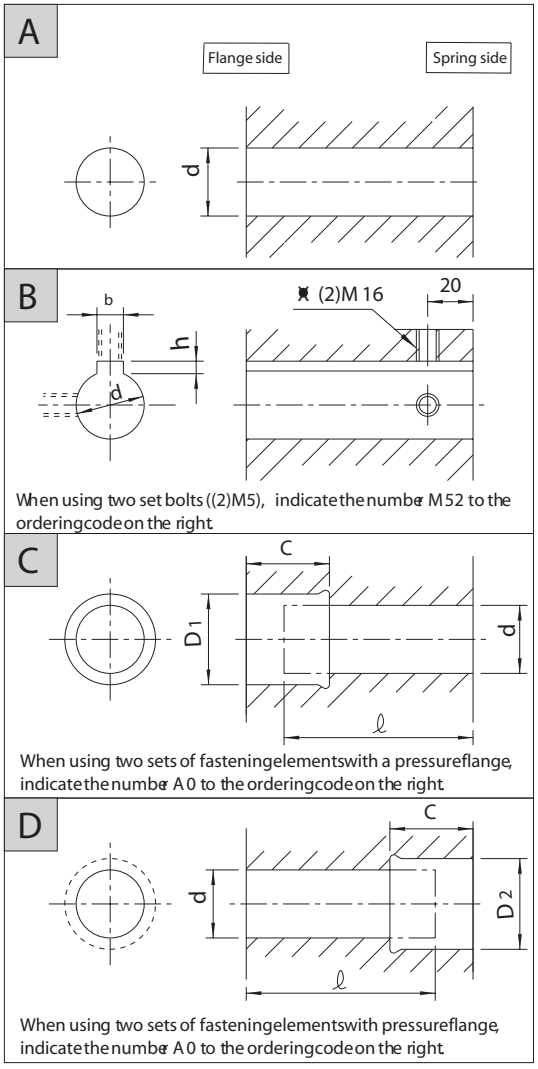
X : Denotesamountof movement when an overload occurs. Optional monitoringsensorscan inputto the controller to stopthemachine.

(Z) : Denoteswhenthe spring heightis torquefree and should be a reference when calculating tripping torques.

Ymax : Denotestheamountof turnsthe torqueadjustment nutmust be turned to obtain maximum tripping torque Tightening beyondthis amountcan preventthe torque limiter from tripping.

Shaft hole dimensions

Figure 18TF-3



Shaft hold dimension ordering codes

Unit : mm

Table 18TF-3

	No.	d				Code No.
A	1	60H 7				18TF-60H 7
	2	65H 7				-65H 7
	3	70H 7				-70H 7
	4	75H 7				-75H 7
	5	80H 7				-80H 7
B	No.	d	b x h			Code No.
	1	60H 7	18Js 9 X 44			18TF-60K 18J
	2	65H 7	"			-65K 18J
	3	70H 7	20Js 9 x 49			-70K 20J
	4	75H 7	"			-75K 20J
	5	80H 7	22Js 9 X 54			-80K 22J
	6	85H 7	"			-85K 22J
	7	90H 7	25Js 9 X 54			-90K 25J
C	No.	d	D_1	C		Code No.
	1	60H 7	68H 8	75	90	18TF-S 606875
	2	60H 7	90H 8	"	"	-S 609075
	3	70H 7	79H 8	78	"	-S 707978
	4	70H 7	110H 8	"	"	-S 7011078
	5	85H 7	91H 8	84	"	-S 809184
	6	90H 7	101H 8	"	"	-S 9010184
D	No.	d	D_2	C		Code No.
	1	60H 7	68H 8	75	90	18TF-G 606875
	2	60H 7	90H 8	"	"	-G 609075
	3	70H 7	79H 8	78	"	-G 707978
	4	70H 7	110H 8	"	"	-G 7011078
	5	80H 7	91H 8	84	"	-G 809184
	6	90H 7	101H 8	"	"	-G 9010184

(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.