

SANKYO 8TF

TORQUE LIMITER

8TF Dimension

Unit : mm

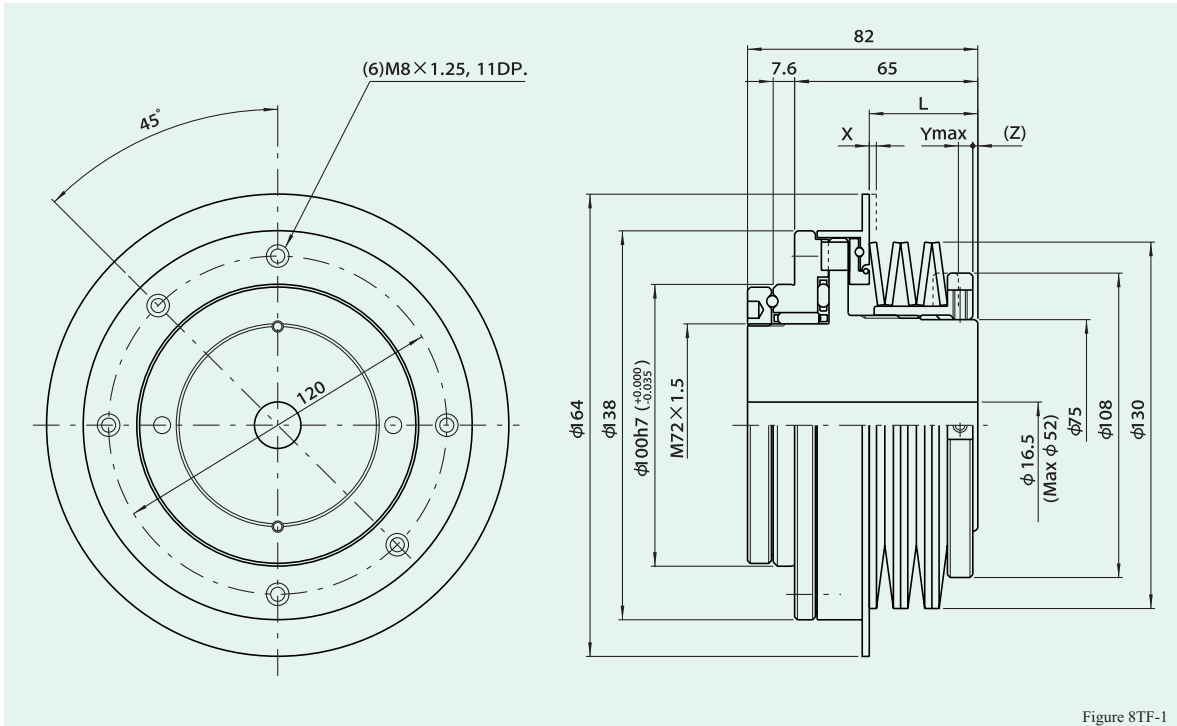
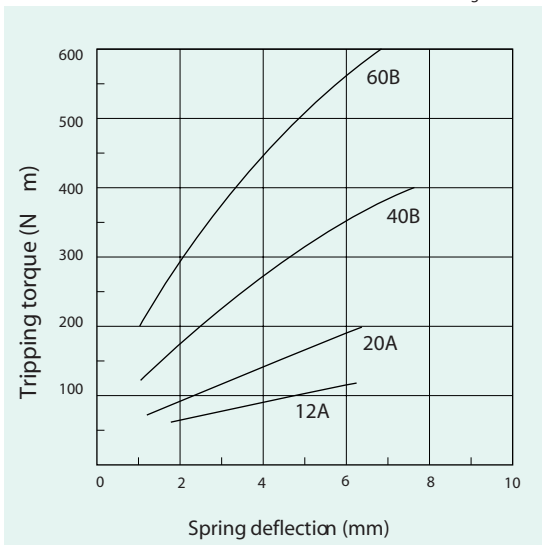


Figure 8TF-1

Figure 8TF-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 8TF-1

Model	Range of tripping torque(N·m)	L (mm)	X (mm)	Ymax (mm)	Z (mm)
8TF-12A	50 ~ 120	37.5	1.6	6.2	0
-20A	70 ~ 200	38.5	2.5	6.2	-0.8
-40B	120 ~ 400	37.5	1.6	7.5	-0.7
-60B	200 ~ 600	38.5	2.5	7.0	-1.5

Specifications

Table 8TF-2

Item	Unit	Value
Pitch of thread	mm	2
Max. allowable radial load	N	10290
Max. allowable thrust load	N	14700
Max. allowable bending movement	N·m	372
Max. revolution per minute	r.p.m.	400
Moment of inertia	kg·m ²	1.5 x 10 ⁻²
Mass	kg	6.2

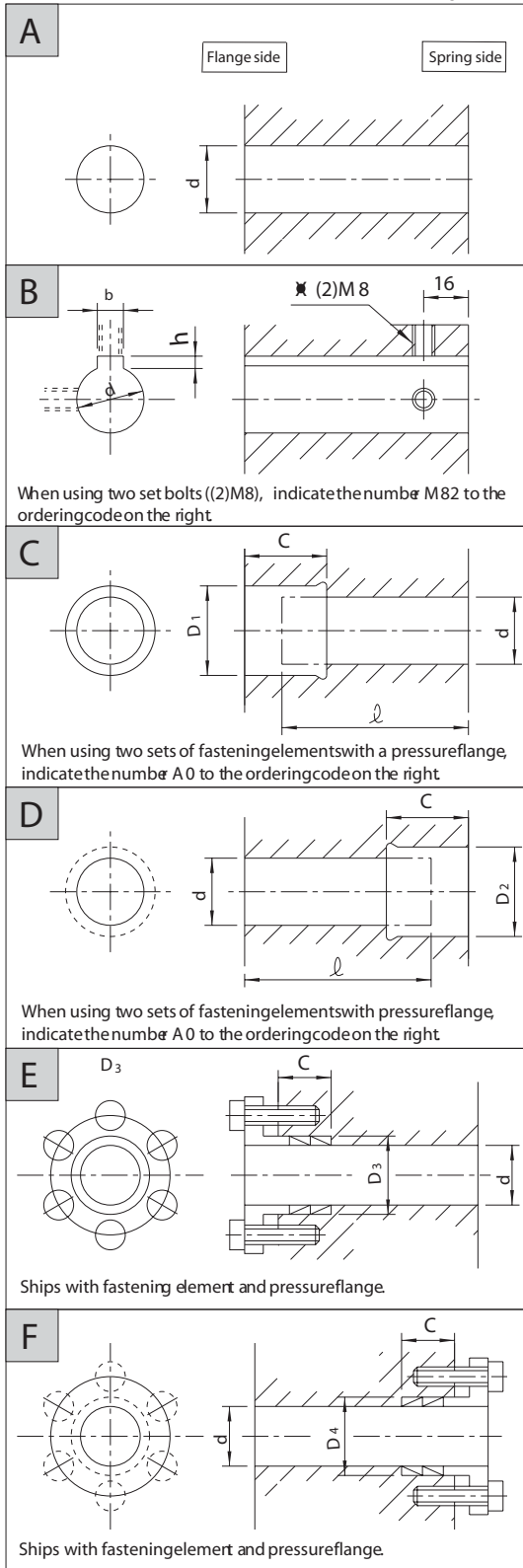
X : Denotes amount of movement when and overload occurs.
Optional monitoring sensors can input to the controller to stop the machine.

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 8TF-3



Shaft hole dimension ordering codes

Unit : mm

Table 8TF-3

No.	d			Code No.		
A	1	30H 7		08TF-30H 7		
	2	32H 7		-32H 7		
	3	35H 7		-35H 7		
	4	38H 7		-38H 7		
	5	40H 7		-40H 7		
	6	45H 7		-45H 7		
	7	50H 7		-50H 7		
No.	d	b x h	Code No.			
B	1	30H 7	8Js 9 X 33	08TF-30K 8 J		
	2	"	10Js 9 X 33	-30K 10J		
	3	32H 7	"	-32K 10J		
	4	35H 7	"	-35K 10J		
	5	38H 7	"	-38K 10J		
	6	40H 7	12Js 9 X 33	-40K 12J		
	7	45H 7	14Js 9 X 38	-45K 14J		
	8	50H 7	"	-50K 14J		
No.	d	D ₁	C	ℓ	Code No.	
C	1	30H 7	35H 7	42	57	08TF-S 303542
	2	32H 7	36H 7	"	"	-S 323642
	3	35H 7	40H 8	43	58	-S 354043
	4	38H 7	44H 8	"	"	-S 384443
	5	40H 7	45H 8	"	"	-S 404543
	6	45H 7	52H 8	40	66	-S 455240
No.	d	D ₂	C	ℓ	Code No.	
D	1	30H 7	35H 7	42	57	08TF-G 303542
	2	32H 7	36H 7	"	"	-G 323642
	3	35H 7	40H 8	43	"	-G 354043
	4	38H 7	44H 8	"	"	-G 384443
	5	40H 7	45H 8	"	"	-G 404543
	6	45H 7	52H 8	48	"	-G 455248
No.	d	D ₃	C	Code No.		
E	1	30H 7	35H 7	17	08TF-S 303517 B 0	
	2	32H 7	36H 7	"	-S 323617 B 0	
	3	35H 7	40H 8	19	-S 354019 B 0	
	4	38H 7	44H 8	"	-S 384419 B 0	
	5	40H 7	45H 8	"	-S 404519 B 0	
No.	d	D ₄	C	Code No.		
F	1	30H 7	35H 7	17	08TF-G 303517 B 0	
	2	32H 7	36H 7	"	-G 323617 B 0	
	3	35H 7	40H 7	19	-G 354019 B 0	
	4	38H 7	44H 7	"	-G 384419 B 0	
	5	40H 7	45H 7	"	-G 404519 B 0	
	6	45H 7	52H 7	24	-G 455224 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.