



# SANKYO 14TF TORQUE LIMITER

14TF Dimension

Unit : mm

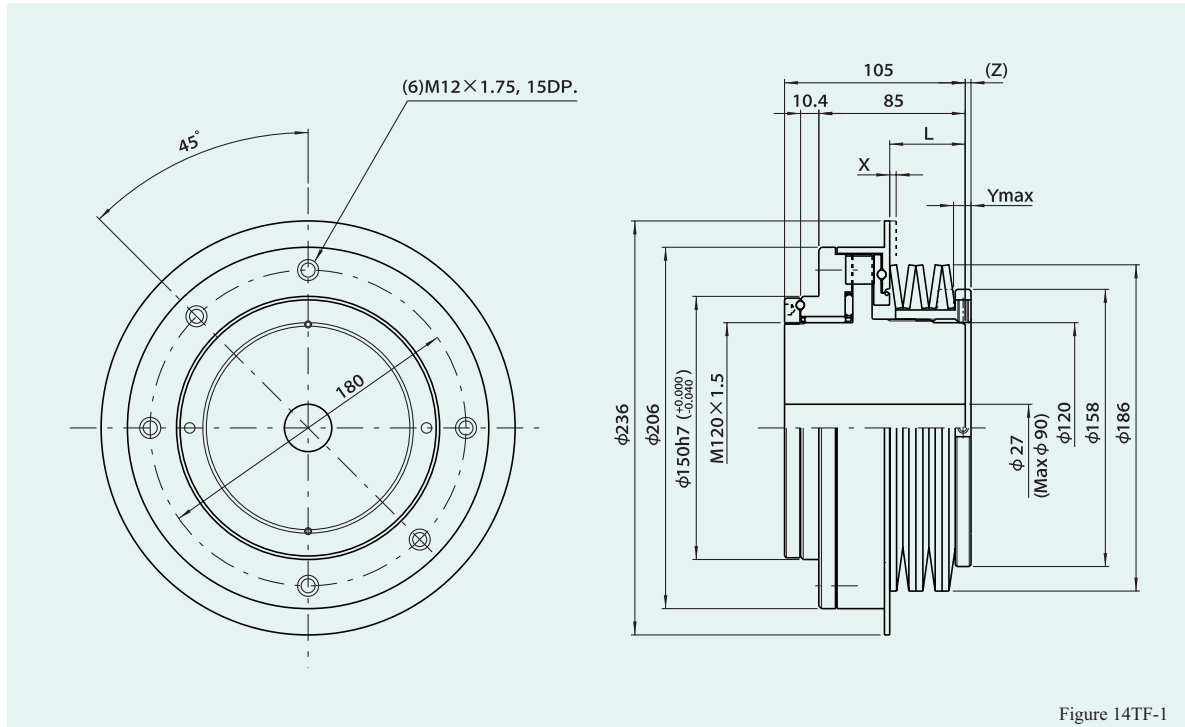
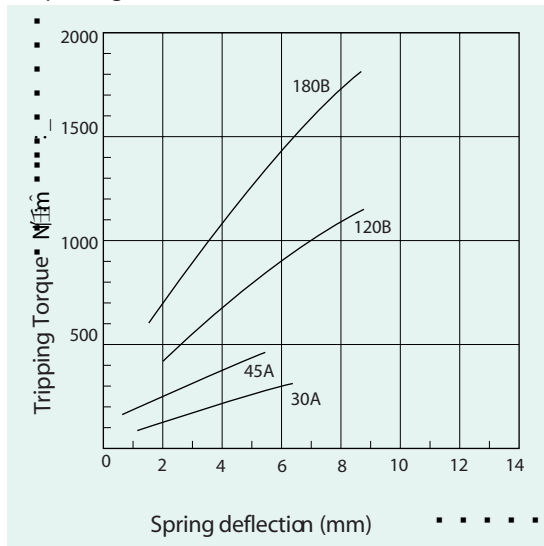


Figure 14TF-1

## Torque Diagram

Figure 14TF-2



## Dimensions

Table 14TF-1

Model	Range of tripping torque(N·m)	L (mm)	X (mm)	Ymax (mm)	(Z) (mm)
14TF-30A	110 ~ 300	43.5	2.2	6.4	4.2
-45A	150 ~ 450	44.5	3.5	5.5	2.9
-120B	420 ~ 1200	43.5	2.2	9.0	3.2
-180B	600 ~ 1800	44.5	3.5	8.6	1.9

## Specifications

Table 14TF-2

Item	Unit	Value
Pitch of thread	mm	2
Max. allowable radial load	N	23520
Max. allowable thrust load	N	28420
Max. allowable bending moment	N·m	1019
Max. revolution per minute	r.p.m	250
Moment of inertia	kg·m <sup>2</sup>	8.5 x 10 <sup>-2</sup>
Mass	kg	20

### 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.

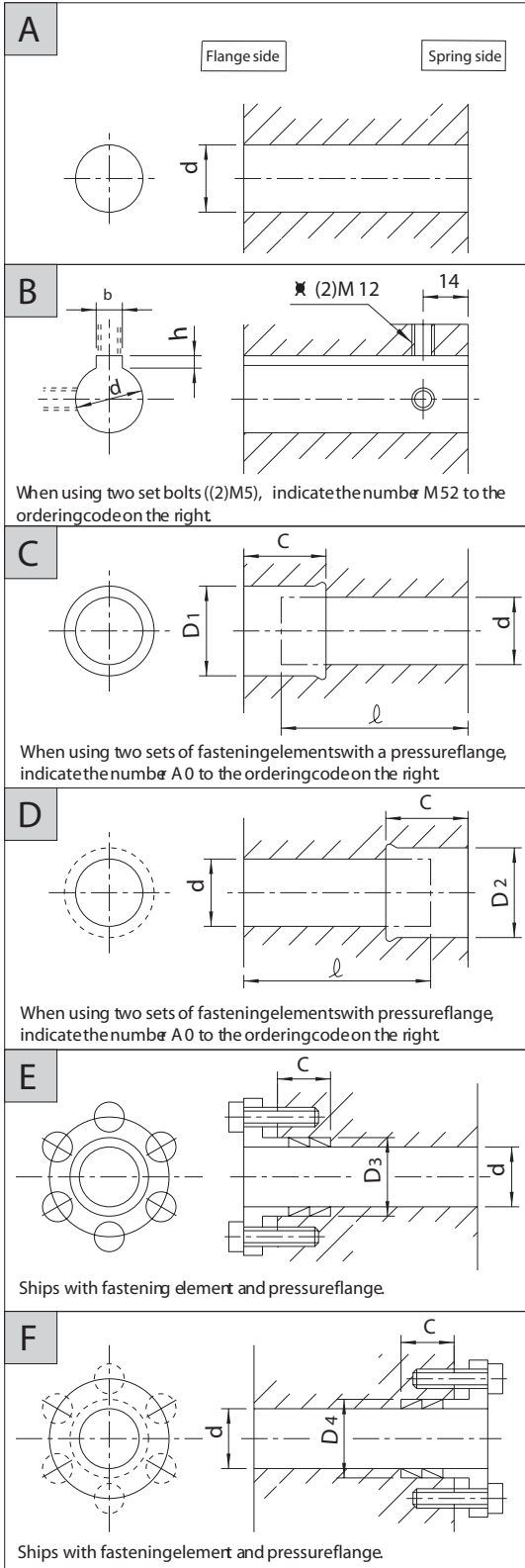
X : Denotes amount of movement when an overload occurs. Optional monitoring sensors can input to the controller to stop the machine.

(Z) : Denotes when 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 14TF-3



Shaft hole dimension ordering codes

Unit : mm

Table 14TF-3

A	Nb.	d		Code No.		
	1	50H 7		14F -50H 7		
	2	55H 7		-55H 7		
	3	60H 7		-60H 7		
B	Nb.	d	b 巖	Code No.		
	1	50H 7	14Js 9 9B	14F -50K 14J		
	2	55H	15Js 9 9D	-55K 15J		
	3	60H 7	巖	-60K 15J		
C	Nb.	d	D <sub>1</sub>	C	ℓ	Code No.
	1	50H 7	57H 8	49	80	14F -S 505749
	2	50H 7	80H 8	58	巖	-S 508058
	3	55H 7	62H 8	49	巖	-S 556249
	4	55H 7	85H 8	58	巖	-S 558558
	5	60H 7	68H 8	54	巖	-S 606854
	6	60H 7	90H 8	58	巖	-S 609058
D	Nb.	d	D <sub>2</sub>	C	ℓ	Code No.
	1	50H 7	57H 8	49	80	14F -G 505749
	2	50H 7	80H 8	58	巖	-G 508058
	3	55H 7	62H 8	49	巖	-G 556249
	4	55H 7	85H 8	58	巖	-G 558558
	5	60H 7	68H 8	54	巖	-G 606854
	6	60H 7	90H 8	58	巖	-G 609058
E	Nb.	d	D <sub>3</sub>	C	Code No.	
	1	50H 7	57H 8	24	14F -S 505724 B 0	
	2	55H 7	62H 8	巖	-S 556224 B 0	
	3	60H 7	68H 8	30	-S 606830 B 0	
F	Nb.	d	D <sub>4</sub>	C	Code No.	
	1	50H 7	57H 8	24	14F -G 505724 B 0	
	2	55H 7	62H 8	巖	-G 556224 B 0	
	3	60H 7	68H 8	30	-G 606830 B 0	

(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.