

# Flanges

With timing pulleys, belts side tracking can occur depending on the parallelism of the shafts and the characteristics of the belt itself.

Flanges are added to pulley side faces to prevent belts from slipping off pulleys.

## Horizontal shafts

- When the center distance is smaller than 8 times of the small pulley diameter, attach flanges on both sides of the small pulley as shown in Fig. 3-12A.
- Flanges are pre-attached to the standard A, B and C type pulleys.
- When the center distance is 8 times of the small pulley diameter or larger, attach flanges on both sides of the both pulleys as shown in Fig. 3-12B.

## Vertical shafts

Belts may easily come off under their own weight. Flanges should be attached to the lower sides of pulleys.

Fig.3-12A

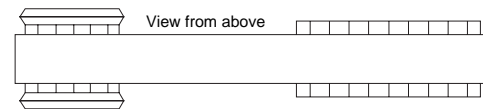
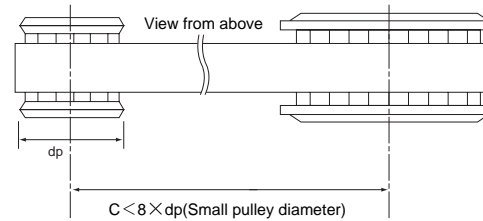


Fig.3-12B



## Flange installation

### (1) Caulking

Caulk in the below area using a punch.

Set the pulley on a flat surface and caulk with a punch so that the pulley body overlaps the flange face as shown below.

(Wear gloves or other protective gear when working.)

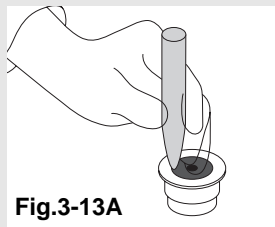


Fig.3-13A

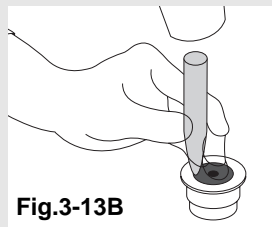


Fig.3-13B

The pulley is unstable while caulking the boss and opposite side. You could use cylinder-shaped tools to stable the pulley as shown in Fig.3-14.

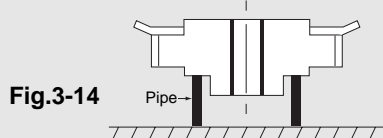


Fig.3-14

Table 3-9

Pulley outside diameter O.D. (mm)	Caulking points
O.D. ≤ 30	4
30 < O.D. ≤ 50	6
50 < O.D. ≤ 80	8
80 < O.D. ≤ 150	10
150 < O.D.	12

\* Double the number of caulking points for the S8M and S14M.

### Notes on caulking

- Remove any foreign materials from the flange-fitting area and leave no gap between the pulley and the flange.
- Caulk the points in a diagonal order, not to let the flange tilt while caulking.

### (2) Screw locking

Flanges for large diameter S8M and S14M pulleys and XH and XXH pulleys are cut pieces, and should be attached to the pulley by countersunk screws.

Flange is not sold separately as a single item.

