

V-Belt Tension Gauge

Proper tension is the key to long, efficient, trouble-free belt operation. When you install a new set of belts, use the gauge to establish correct tension. Then, to maintain performance, re-check belt tension after 24-48 hours. The payoff is maximum belt life, reduced downtime and uninterrupted equipment service.

Span Length, I

Force

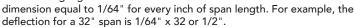
Save these Instructions for Future Use

CAUTION: Before doing maintenance or tensioning on belt drives, turn equipment off and lock out the

power source. Use guards on machinery when running.

Place a matched set of Bando belts over the sheave grooves. Take up the slack until the belts appear fairly taut.

 With the drive stopped, measure the belt span length of your drive (see sketch). Set the rubber O-ring on the body of the tension gauge at the



- 3. Set the O-ring on the plunger at zero against the body of the tension gauge.
- 4. With the tension gauge perpendicular to the span apply a force to a belt in the center of the span. Deflect the belt until the bottom of the large O-ring is even with the top of the next belt, or the bottom of the straight edge laid across the top of other belts on the drive.

Release pressure and read pounds of force used at o-ring plunger.

Note: when new belts are installed on a drive, the tension will drop rapidly during the first few hours. Thus, for new belts, tighten to the initial installation deflection force shown in the tables on back. Re-check tension after the first 24-48 hours of operation. Subsequent re-tensioning should fall between the minimum and maximum forces shown in the tables.

5. Compare the force required in Step 4 with the ranges in the tables on back. Tighten or loosen belts to bring them into the recommended range.

Note: the proper tension for a v-belt drive is the lowest tension at which the belts won't slip under peak load conditions.



		Deflection Force (lbs.)			
	Small		Re-tensioning		
V-Belt Cross Section	Pulley Diameter Range (in.)	Initial Installation	Max.	Min.	
3L	1.5 - 2.0	1.4	1.1	0.8	
	2.1 - 2.7	1.9	1.4	1.1	
	2.8 - 4.0	2.5	2.0	1.5	
4L	1.5 - 2.0	2.1	1.6	1.2	
	2.1 - 2.7	2.4	1.8	1.4	
	2.8 - 4.0	3.1	2.3	1.8	
5L	3.0 - 3.5	3.2	2.5	1.9	
	3.6 - 4.5	4.1	3.2	2.4	
	4.6 - 6.0	5.1	3.9	3.0	

		Deflection Force (lbs.)			
	Small		Re-tensioning		
V-Belt Cross Section	Pulley Diameter Range (in.)	Initial Installation	Max.	Min.	
Α	3.0 - 3.4	3.3	2.9	2.2	
	3.6 - 4.2	3.5	3.1	2.4	
	4.6 - 6.0	3.7	3.3	2.5	
	4.6 - 5.4	6.0	5.1	4.0	
В	5.6 - 7.4	6.3	5.5	4.2	
	7.5 - 9.4	6.6	5.7	4.4	
	7.0 - 8.5	13.2	11.5	8.5	
С	9.0 - 12.0	13.9	12.1	9.3	
	13.0 - 16.0	14.6	12.6	9.7	
D	12.0 - 15.5	26.5	22.9	17.6	
	16.0 - 21.0	27.9	24.3	18.7	
	22.0 - 27.0	29.1	25.6	19.6	
E	17.7 - 23.6	39.7	34.4	26.5	
	23.7 - 31.5	41.7	36.2	27.8	
	31.6 - 39.3	43.7	37.9	29.1	
	2.1 - 3.4	4.4	3.7	2.9	
AX	3.6 - 4.2	4.6	4.0	3.1	
	4.6 - 6.0	4.9	4.2	3.3	
	3.7 - 5.4	7.7	6.6	5.1	
ВХ	5.6 - 7.4	8.2	7.1	5.5	
	8.6 - 9.4	8.6	7.5	5.7	
СХ	5.8 - 8.5	17.2	15.0	11.5	
	9.0 - 12.0	18.1	15.7	12.1	
	13.0 - 16.0	19.0	16.5	12.8	

Recommended eflection Force (lbs.)					Recommended Deflection Force (lbs		
	Re-tens	sioning		Small		Re-tensioning	
Initial tallation	Max.	Min.	V-Belt Cross Section	Pulley Diameter Range (in.)	Initial Installation	Max.	Min.
3.3	2.9	2.2	3V	2.65 - 3.35	5.5	4.8	3.9
3.5	3.1	2.4		3.65 - 4.12	6.4	5.7	4.4
3.7	3.3	2.5		4.50 - 5.60	7.5	6.6	5.1
6.0	5.1	4.0		6.00 - 10.60	8.6	7.5	5.7
6.3	5.5	4.2	5V	7.10 - 8.50	19.2	16.7	13.0
6.6	5.7	4.4		9.00 - 11.80	23.3	20.3	15.6
13.2	11.5	8.5		12.50 - 16.00	27.3	23.9	18.5
13.9	12.1	9.3	8V	12.50 - 16.00	50.9	44.3	34.4
14.6	12.6	9.7		17.00 - 20.00	57.1	49.8	38.6
26.5	22.9	17.6		21.20 - 24.60	61.3	53.3	41.4
27.9	24.3	18.7	3VX	2.20 - 3.35	5.5	4.8	3.9
29.1	25.6	19.6		3.65 - 4.12	6.4	5.7	4.4
39.7	34.4	26.5		4.50 - 5.60	7.5	6.6	5.0
11.7	36.2	27.8		6.00 - 10.60	8.6	7.5	5.7
13.7	37.9	29.1	5VX	4.40 - 8.50	19.2	16.7	13.0
4.4	3.7	2.9		9.00 - 11.80	23.3	20.3	15.6
4.6	4.0	3.1		12.50 -16.00	27.3	23.8	18.5
4.9	4.2	3.3					



See your Bando distributor for a complete line of top quality V-belts, timing belts, sheaves and pulleys.

Customer Service: 800-829-6612 serviceexpress@bandousa.com www.BandoUSA.com

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