

V-Belt Tensioning

V-Belt Cross Section	Small Sheave Diameter Range (Inches)	Recommended Deflection Force (Lbs.)		
		Initial Installation	Retensioning	
			Maximum	Minimum
A	- 3.0	3.6	3.1	2.4
	3.1 - 4.0	4.2	3.6	2.8
	4.1 - 5.0	5.2	4.6	3.5
	5.1 -	6.1	5.3	4.1
B	- 4.6	7.3	6.4	4.9
	4.7 - 5.6	8.7	7.5	5.8
	5.7 - 7.0	9.3	8.1	6.2
	7.1 -	10.0	8.8	6.8
C	- 7.0	12.5	10.7	8.2
	7.1 - 9.0	15.0	13.0	10.0
	9.1 - 12.0	18.0	16.3	12.5
	12.1 -	19.5	16.9	13.0
D	12.0 - 13.0	25.5*	22.1	17.0
	13.1 - 15.5	30.0*	26.0*	20.0
	15.6 - 22.0	32.0*	28.0*	21.5
E	18.0 - 22.0	45.0*	39.0*	30.0*
	22.1 -	52.5*	45.5*	35.0*
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	2.0 - 2.5	2.1	1.6	1.2
	2.6 - 3.5	2.4	1.8	1.4
	3.6 - 5.0	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
AX	- 3.0	5.1	4.4	3.4
	3.1 - 4.0	5.5	4.8	3.7
	4.1 - 5.0	6.0	5.2	4.0
	5.1 -	6.7	5.9	4.5
BX	- 4.6	10.0	8.7	6.7
	4.7 - 5.6	11.0	9.5	7.3
	5.7 - 7.0	11.5	9.9	7.6
	7.1 -	12.0	10.1	7.8
CX	- 7.0	18.0	15.6	12.0
	7.1 - 9.0	19.5	16.9	13.0
	9.1 - 12.0	20.0	17.6	13.5
	12.1 -	21.0	18.2	14.0
3V	2.65 - 3.35	4.6	4.0	3.1
	3.65 - 4.50	5.5	4.8	3.7
	4.75 - 6.0	6.4	5.6	4.3
	6.5 - 10.6	7.3	6.4	4.9
5V	7.1 - 10.3	16.5	14.3	11.0
	10.9 - 11.8	19.5	16.9	13.0
	12.5 - 16.0	21.0	18.2	14.0
8V	12.5 - 16.0	39.0*	33.8*	26.0*
	17.0 - 20.0	45.0*	39.0*	30.0*
	21.2 - 24.4	51.0*	44.2*	34.0*
3VX	2.2 - 2.5	4.8	4.2	3.2
	2.65 - 4.75	5.7	4.9	3.8
	5.0 - 6.5	7.2	6.2	4.8
	6.9 -	8.7	7.5	5.8
5VX	- 5.5	15.0	13.0	10.0
	5.9 - 8.0	19.0	16.9	13.0
	8.5 - 10.9	21.0	18.2	14.0
	11.8 -	22.0	19.5	15.0

Note: For banded belts, multiply the force in the table by the number of belts in the band.
 * 1/2 of this deflection force can be used, but substitute deflection amount as follows:

$$DA \text{ (inches)} = \frac{LS \text{ (inches)}}{128}$$