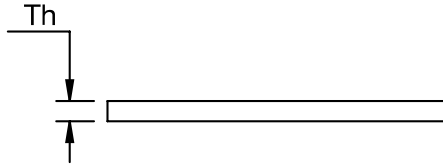


FK

Flat, Solid Belt

Material:	Volta K, Green 17	
Hardness:	59D	
Standard Belt Width:	60" / 1524mm	
Temp. Range:	-20°C to 75°C / -5°F to 170°F	

Coefficient of friction:	
Steel:	0.28
Aluminum:	0.26
Rubber:	0.40
UHMW:	0.20



TYPE		FK-3	FK-4	FK-6.5
Thickness	mm	3	4	6.5
Weight	kg/m ²	3.6	5.0	8.2
	lb/ft ²	0.73	1.00	1.62
Minimum Pulley:	mm	88	105	195
	inch	3 ½	4 ¼	7 ⅞
Maximum Work Load:	Kg/cm	21	28	45.5
	lb/inch	120	160	260
Pull Force (kg/cm) at pretension of:	0.5%	1.6	2.1	3.3
	1%	3.2	4.2	6.5
	1.5%	4.7	6.3	9.8
	2%	6.3	8.4	13.0
	2.5%	7.9	10.5	NA
	3%	9.5	12.6	NA
Pull Force (lb/in) at pretension of:	0.5%	8.8	11.7	18.2
	1%	17.6	23.5	36.4
	1.5%	26.5	35.3	54.6
	2%	35.3	47.0	72.8
	2.5%	44.1	58.8	NA
	3%	52.9	70.6	NA
Electrode Splicing	EVK 7	-	-	*
	EVK 9	✓	✓	*

Notes:

1. Pull force relates to steel pulleys. Multiply given values by 0.9 for cast iron, 1.1 for rubber and 0.8 for wet smooth drums.
2. English dimensions have been converted from metric measurements
3. All values are nominal and to the best of our experience are true and accurate.

*Electrode welding not recommended for belt thicker than 5mm. FBW tool splicing is advisable.

MINIMUM PULLEY GUIDELINES FOR FABRICATED VOLTA FK BELTS

	FK - 3		FK - 4	
	inch	mm	inch	mm
Belt (a)	3 ½	88	4 ¼	105
V - Guide (b)				
VW – 10	6	148	6 ½	165
VW – 13	6 ¾	168	7 ⅜	185
VW – 17	8 ⅛	203	8 ¾	220
VW – 22	9 ⅜	233	10	250
CW – 10	6	145	6 ¾	160
CW – 13	6	153	6 ¾	170
CW – 17	7 ⅛ ⁽⁴⁾	178 ⁽⁴⁾	7 ¾	195
CW – 22	8	198	8 ½ ⁽⁴⁾	215 ⁽⁴⁾
V - Cleat (c)				
Electrode	5 ⅝	143	6 ⅜	160
VW – 10	6 ½	168	7 ⅜	185
VW – 13	7 ⅜	183	8	198
VW - 17	9 ⅛	228	9¾	245
VW – 22	11 ⅜	283	12	300
Flat Cleat (c)				
Single Electrode	7	173	7½	190
Double 7 Electrode	8 ⅜	208	9	225
Double 9 Electrode	NA	NA	10	250

Note: 1) For Guided and Cleated belts, add V-Guide value (b) with cleat value (c) and subtract belt value (a).

2) English dimensions have been converted from metric measurements.

3) NA = Not Available.

4) Recommended guide.