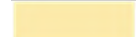


FMW

Flat Belt, Bottom-Smooth, Top-Smooth

Material:	Volta MW
Color (Indicative only)	Beige 
Hardness:	95A/46D
Temp. Range (C°):	-30°C to 70°C
Temp. Range (F°):	-20°F to 158°F
Certification:	FDA/ USDA/USDA Dairy/EU Approved

Coefficient of friction (Dry):	
Steel:	0.40
Aluminum:	0.40
Rubber:	0.50
UHMW:	0.30



Product:		FMW -2.5	FMW- 3	FMW- 4	FMW- 5	FMW- 6
Belt Thickness (mm)		2.5	3	4	5	6
Belt Weight (kg/ m ²):		3.1	3.8	5	6.3	7.4
Belt Weight (lb/ ft ²):		0.62	0.75	1	1.25	1.5
Belt Min Pulley Diameter (mm)-Normal Flex		35	40	60	80	90
Belt Min Pulley Diameter (mm)-Back Flex		35	40	60	80	90
Belt Min Pulley Diameter (Inch)-Normal Flex		1 3/8	1 5/8	2 3/8	3 1/8	3 5/8
Belt Min Pulley Diameter (Inch)-Back Flex		1 3/8	1 5/8	2 3/8	3 1/8	3 5/8
Max. Workload (Kg/cm)		10	12	16	20	24
Max. Workload (lb/inch)		56	67	90	112	134
Pull Force* (kg/cm width) at pretension of:	0.5%	0.8	0.9	1.2	1.5	1.8
	1%	1.5	1.8	2.4	3	3.6
	1.5%	2.3	2.7	3.6	4.5	5.4
	2%	3	3.6	4.8	6	7.2
	2.5%	3.8	4.5	6	7.5	9
	3%	4.5	5.4	7.2	9	10.8
Pull Force* (lb/inch width) at pretension of:	0.5%	4.2	5.1	6.8	8.4	10.2
	1%	8.4	10.1	13.5	16.9	20.25
	1.5%	12.7	15.2	20.2	25.3	30.3
	2%	16.9	20.2	27	33.7	40.5
	2.5%	21.1	25.3	33.7	42.2	50.6
	3%	25.3	30.4	40.5	50.6	60.8
Electrode Splicing	EVMW 7	✓	-	-	-	*
	EVMW 9	-	✓	✓	✓	*

- *Pull force – According to “Temperature Correction Factor”.

Belt material	Temperature Correction Factor						
	40°C/ 104°F	45°C/ 113°F	50°C/ 122°F	55°C/ 131°F	60°C/ 140°F	65°C/ 149°F	70°C/ 158°F
MW– 95A/46D Shore	1	0.98	0.95	0.9	0.87	0.8	0.7

- 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.
- English dimensions have been converted from Metric measurements.
- All values are nominated 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.

	FEMW-2		FMW-2.5 FEMW-2.5		FMW-3 FEMW-3		FEMW-4		FMW-5 FEMW-5	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
Belt (a)	30	1 ³ / ₁₆	35	1 ³ / ₈	40	1 ⁵ / ₈	60	2 ³ / ₈	80	3 ¹ / ₈
V - Guide (b)										
VM - 10	100	4	108	4 ¹ / ₄	115	4 ¹ / ₂	125	5	150	6
VM - 13	115	4 ¹ / ₂	120	4 ³ / ₄	125	5	140	5 ¹ / ₂	165	6 ¹ / ₂
VM - 17	NA	NA	NA	5 ¹ / ₂	150	6	175	7	200	8
VM - 22	NA	NA	NA	NA	NA	NA	200	8	225	9
VL/VLC/VLB - 6	55	2 ¹ / ₄	62	2 ¹ / ₂	70	2 ³ / ₄	85	3 ¹ / ₄	105	4 ¹ / ₄
VL/VLC/VLB - 8	70	2 ³ / ₄	75	3	80	3 ¹ / ₈	95	3 ³ / ₄	120	4 ¹¹ / ₁₆
VL/VLC/VLB -10	75	3	80	3 ¹ / ₄	85	3 ³ / ₈	100	4	125	5
VL/VLC/VLB - 13	80	3 ¹ / ₄	85	3 ³ / ₈	90	3 ¹ / ₂	115	4 ¹ / ₂	140	5 ¹ / ₂
VL/VLC/VLB - 17	NA	NA	110	4	115	4 ¹ / ₂	140	5 ¹ / ₂	150	6
VL/VLC/VLB - 22	NA	NA	NA	NA	NA	NA	165	6 ¹ / ₂	175	7
CM - 13	90	3 ¹ / ₂	95	3 ³ / ₄	100	4	125	5	140	5 ¹ / ₂
CM - 17	NA	NA	115	4 ¹ / ₂	125	5	150	6	175	7
CM - 22	NA	NA	NA	NA	140	5 ¹ / ₂	175	7	200	8
CL /CLC/CLB- 10	65	2 ¹ / ₂	70	2 ³ / ₄	75	3	90	3 ¹ / ₂	115	4 ¹ / ₂
CL /CLC/CLB - 13	70 ⁽³⁾	2 ³ / ₄ ⁽³⁾	75	3	80	3 ¹ / ₄	100	4	120	4 ³ / ₄
CL /CLC/CLB - 17	NA	NA	95 ⁽³⁾	3 ¹ / ₂ ⁽³⁾	100 ⁽³⁾	4 ⁽³⁾	125 ⁽³⁾	5 ⁽³⁾	140	5 ¹ / ₂
CL /CLC/CLB - 22	NA	NA	NA	NA	115	4 ¹ / ₂	135	5 ³ / ₈	150 ⁽³⁾	6 ⁽³⁾
V - Cleat (c)										
Electrode	55	2 ¹ / ₄	62	2 ¹ / ₂	70	2 ³ / ₄	95	3 ³ / ₄	120	4 ³ / ₄
VL/VLC/VLB - 10	80	3 ¹ / ₄	85	3 ³ / ₈	90	3 ¹ / ₂	115	4 ¹ / ₂	140	5 ¹ / ₂
VL/VLC/VLB - 13	90	3 ¹ / ₂	95	3 ³ / ₄	100	4	125	5	150	6
VL/VLC/VLB - 17	NA	NA	NA	4 ¹ / ₂	125	5	150	6	175	7
VL/VLC/VLB - 22	NA	NA	NA	NA	NA	NA	200	8	215	8 ¹ / ₂
Flat Cleat (c)										
Single Electrode	115	4 ¹ / ₂	120	4 ³ / ₄	125	5	140	5 ¹ / ₂	165	6 ¹ / ₂
Double 7 Electrode	140	5 ¹ / ₂	145	5 ³ / ₄	150	6	175	7	200	8
Double 9 Electrode	NA	NA	NA	NA	190	7 ¹ / ₂	200	8	225	9
T Cleat/HF (c)	80	3 ¹ / ₄	85	3 ³ / ₈	90	3 ¹ / ₂	115	4 ¹ / ₂	140	5 ¹ / ₂
Side Walls (c)										
Sww 20 (Normal Flex)	95	3 ³ / ₄	100	4	105	4 ¹ / ₈	110	4 ³ / ₈	120	4 ³ / ₄
Sww 20 (BackFlex)	110	4 ³ / ₈	110	4 ³ / ₈	110	4 ³ / ₈	110	4 ³ / ₈	180	7 ³ / ₃₂
Sww 30(Normal Flex)	95	3 ³ / ₄	100	4	105	4 ¹ / ₈	110	4 ³ / ₈	120	4 ³ / ₄
Sww 30 (BackFlex)	125	5	125	5	125	5	125	5	180	7 ³ / ₃₂
Sww 40(Normal Flex)	100	4	110	4 ³ / ₈	115	4 ¹ / ₂	130	5 ¹ / ₈	135	5 ³ / ₈
Sww 40 (BackFlex)	150	6	150	6	150	6	150	6	205	8 ⁵ / ₆₄
Sww 50(Normal Flex)	NR	NR	NR	NR	125	5	130	5 ¹ / ₈	135	5 ³ / ₈
Sww 50 (BackFlex)	NR	NR	NR	NR	175	7	175	7	205	8 ⁵ / ₆₄
Sww 60(Normal Flex)	NR	NR	NR	NR	130	5 ¹ / ₈	135	5 ³ / ₈	140	5 ¹ / ₂
Sww 60 (BackFlex)	NR	NR	NR	NR	200	8	200	8	210	8 ¹⁷ / ₆₄
Sww 80(Normal Flex)	NR	NR	NR	NR	150	6	150	6	150	6
Sww 80 (BackFlex)	NR	NR	NR	NR	250	10	250	10	250	10
Sww 100(Normal Flex)	NR	NR	NR	NR	200	8	200	8	200	8
Sww 100(Back Flex)	NR	NR	NR	NR	300	12	300	12	300	12

MINIMUM PULLEY GUIDELINES FOR FABRICATED VOLTA FMW & FEMW BELTS

- Notes:
- 1) For belt fabrication where the guides are located below the cleats or Side Walls, add the V-Guide value (b) and the cleat or sidewall value (c), and subtract belt value (a). In the case where the Guide is not located below the cleat or Side Wall, choose the higher of the values between the V-guide (b) and cleat or Side Wall (c).
 - 2) NA = Not Available.
 - 3) NR = Not Recommended.
 - 4) Recommended guide.
 - 5) Dimensions have been converted from metric measurements.