
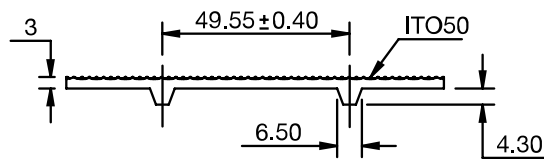


FDR-DD-ITO50-V1
(Hydrolysis & Chemical Resistant DualDrive™)
Bottom- Smooth, Top-ITO50 (Impression Top Oval)

Material:	Volta DR
Color (Indicative only)	Blue 15 
Hardness:	53D
Temp. Range (C°):	-20°C to 70°C
Temp. Range (F°):	-5°F to 158°F
Certification:	FDA/ EU Approved

Coefficient of friction (Dry):	
Steel:	0.55
Stainless Steel:	0.55
UHMW:	0.30



Product:	FDR-3-DD-ITO50- V1
Belt Thickness:	3mm
Belt Weight (kg/ m²):	3.78 kg/m ²
Belt Weight (lb/ ft²):	0.77 lb/ft ²
Belt Min Pulley Diameter (mm) (Normal Flex)	100mm
Belt Min Pulley Diameter (mm) (Back Flex)	100mm
Belt Min Pulley Diameter (Inch) (Normal Flex)	3.94"
Belt Min Pulley Diameter (Inch) (Back Flex)	3.94"
Max Pull Force* (kg/cm width)	6.5
Max Pull Force* (lb/inch width)	36.3

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

Belt material	Temperature Correction Factor													
	30°C/ 86°F	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	75°C/ 167°F	80°C/ 176°F	85°C/ 185°F	90°C/ 194°F	95°C/ 203°F	100°C/ 212°F
DR-V1-53D Shore	1	0.89	0.81	0.77	0.71	0.67	0.62	0.61	0.57	0.54	0.51	0.51	0.47	0.45

- English dimensions have been converted from Metric measurements.
- All values are nominated and to the best of our experience are true and accurate.

Important Note: These belts can only be driven with Volta sprockets.

MINIMUM PULLEY GUIDELINES FOR FABRICATED VOLTA FDR-DD V1/ FDR-DD-ITM2 V1 / FDR-DD-ITO50 BELTS

Belt Type	FDR-3-DD V1 / FDR-3-DD ITM2 V1 /FDR-3-DD-ITO50	
MPD Base Belt	100mm	3.94"

Minimum Pulley Diameter for V-Cleat *

Electrode	130mm	5.31"
VDR - 10	148mm	5.82"
VDR - 13	161mm	6.34"
VDR - 17	207mm	8.15"

Minimum Pulley Diameter for Flat High Frequency Flights

App. Temperature	Temp ≥ 0° C / 32° F		Temp < 0° C / 32° F	
Flight 3 – 5 mm	106mm	4.17"	165mm	6.5"
Flight 6 – 8 mm	136mm	5.35"	195mm	7.68"

Minimum Pulley Diameter for Baseless Sidewalls*

	Normal Flex		Back Flex	
B-SW 30 : 1.6mm Thick	100mm	3.94"	110mm	4.33"
B-SW 40 : 1.6mm Thick	100mm	3.94"	120mm	4.72"
B-SW 50 : 1.6mm Thick	100mm	3.94"	150mm	5.9"
B-SW 60 : 1.6mm Thick	110mm	4.33"	180mm	7.1"
B-SW 80 : 1.6mm Thick	130mm	5.12"	230mm	9.05"
B-SW 100 : 1.6mm Thick	160mm	6.3"	300mm	11.81"
B-SW 130 : 2mm Thick	210mm	8.27"	400mm	15.75"
B-SW 150 : 2mm Thick	250mm	9.84"	450mm	17.72"

Minimum Pulley Diameter for Two Top Guides *

Guide Type	Normal Flex		Back Flex	
VDR - 10	166mm	6.53"	166mm	6.53"
VDR - 13	180mm	7.08"	180mm	7.08"
VDR - 17	228mm	8.98"	228mm	8.98"

* Wait two hours before you check the welding quality of all welding types that done with hot air.
Liestor Set up : Welding Speed ~ 0.5 m/min ; Power: 7.5 - 8.5

- Notes:**
- 1.) **NR:** Not Recommended
 - 2.) All Inch sizes have been converted from Metric.
 - 3.) **HF Welded Flights** - we recommend welding the Flights above the teeth location and not to exceed the tooth base width, or can be welded between the teeth as indicated in sketch.

When choosing the pulley size, it must be equal or larger than the minimum pulley required.

