

MILTONIA™ ORDERING INFORMATION

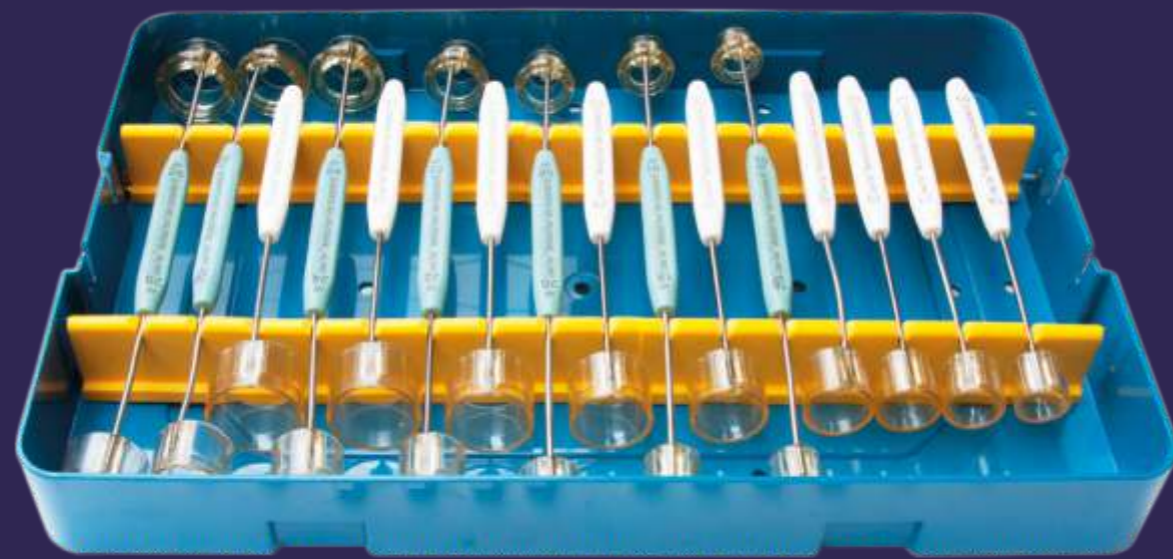
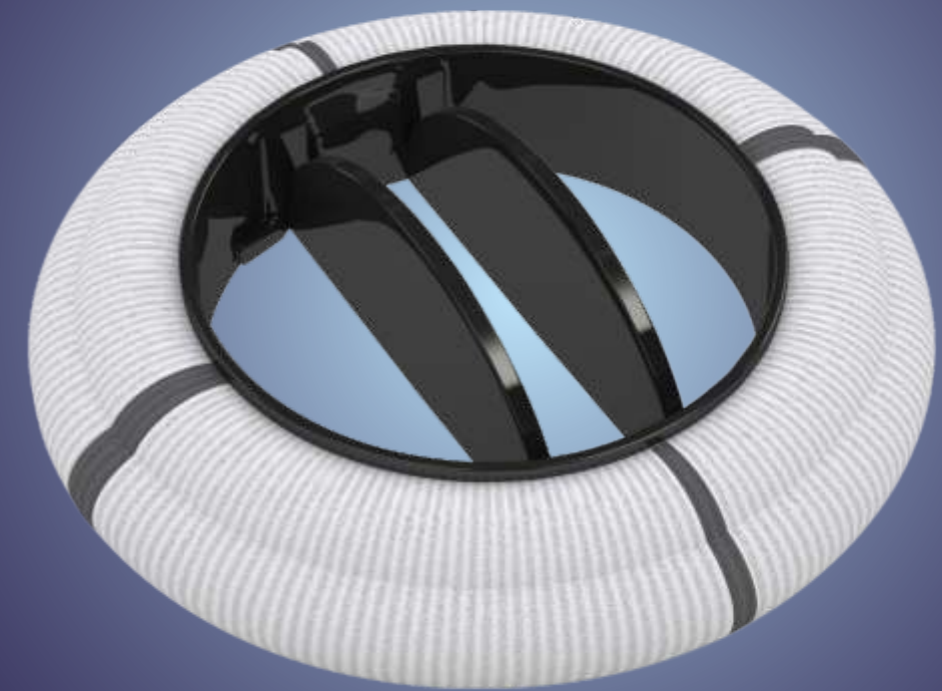


Catalogue No.		Sewing ring Diameter(mm)	Organization circular Diameter(mm)	Orifice Diameter(mm)	orifice aiea(cm ²)	overall height	opening angle(°)
Aortic	MLT 19A	19	19.8	14.8	1.55	8.6	85
	MLT 21A	21	21.8	16.8	2.02	9.6	85
	MLT 23A	23	23.8	18.8	2.56	10.9	85
	MLT 25A	25	25.8	20.8	3.17	12.1	85
	MLT 27A	27	27.8	22.8	3.84	13.1	85
Mitral	MLT 23M	31	23.8	18.8	2.56	10.9	85
	MLT 25M	33	25.8	20.8	3.17	12.1	85
	MLT 27M	35	27.8	22.8	3.84	13.1	85
	MLT 29M	37	29.8	24.8	4.59	14.1	85
	MLT 31M	39	31.8	24.8	5.37	15.4	85

Dedicated sizers, accessories and rotatable rings, allowing easy rotation and intra-operative adjustment.

MILTONIA™

Mechanical Bi-Leaflet Heart Valve



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MILTONIA™

Mechanical Bi-Leaflet Heart Valve

The MILTONIA™ Mechanical Bi-Leaflet Heart Valve is a low profile bileaflet valve consisting of an orifice ring and two mirror image leaflets. The leaflets consist of pyrolytic carbon coated over a graphite substrate. The graphite substrate for the leaflets is tungsten impregnated for radiopacity. The orifice ring consists entirely of pyrolytic carbon. In the full open position, the plane of each leaflet forms a nominal angle of 85° relative to the plane of the orifice ring.

The valve sewing ring is constructed of double velour polyester fabric and is mounted on the orifice ring using a titanium stiffening ring and secured with two titanium lock ring and a lock wire. This method of sewing cuff attachment to the orifice allows for rotation of the sewing ring in situ, during surgical placement.

Three markers are located in the aortic sewing ring and four markers are located in the mitral sewing ring to assist in the uniform placement of sutures around the valve annulus.

Product Information

Features

- Open pivot Suspended Leaflet Design
- High durability
- Pure pyrolytic carbon
- Optimal axis of suspension
- Tungsten impregnated leaflets
- Titanium strengthening ring

Sizing

- 5 sizes for Aortic & Mitral
- 23 to 33 mm (Mitral) 19 to 27 (Aortic)
- Miltonia AP (Aortic Advance Performance 16,18 &20

Benefits

- Minimal noise
- Low thrombogenicity
- Improved hemodynamic

Performance

- Excellent imaging
- Optimal leaflet movement

Accessories

- Complete sizer set



OPEN PIVOT SUSPENDED LEAFLET



Open pivot design ensures the sufficient blood \washing to reduce the risk of thrombosis

This design reduces the shear stress that acts on the blood cells to minimize the damage

The open hinging mechanism reduces drastically the noise of the valve movement, thereby improving quality of patient's and his/her family life. The Sound of Silence

The effective orifice area (EOA) of the Miltonia™ valve is larger, size-for-size, than other valve on the market and virtually eliminates patient-prosthesis mismatch (ppm) in the aortic position. considerably larger EOAs and excellent patient prosthesis match result in a valve with exceptional hemodynamic performance. Meril recognizes that ppm can be a significant problem in the aortic position. The Miltonia™ AP was created and designed to address this issue.

		EOAI By Valve Size					
Valve Size(mm)		19/ 16AP	21/ 18AP	23/ 20AP	25	27	29
Average EOA2(cm2)		1.2	1.5	1.7	2.1	2.5	3.1
BSA(m ²)	0.6	2.00	2.50	2.83	3.50	4.17	5.17
	0.7	1.71	2.14	2.43	3.00	3.57	4.43
	0.8	1.50	1.88	2.13	2.63	3.13	3.88
	0.9	1.33	1.67	1.89	2.33	2.78	3.44
	1.0	1.20	1.50	1.70	2.10	2.50	3.10
	1.1	1.09	1.36	1.55	1.91	2.27	2.82
	1.2	1.00	1.25	1.42	1.75	2.08	2.58
	1.3	0.92	1.15	1.31	1.62	1.92	2.38
	1.4	0.86	1.07	1.21	1.50	1.79	2.21
	1.5	0.80	1.00	1.13	1.40	1.67	2.07
	1.6	0.75	0.94	1.06	1.31	1.56	1.94
	1.7	0.71	0.88	1.00	1.24	1.47	1.82
	1.8	0.67	0.83	0.94	1.17	1.39	1.72
	1.9	0.63	0.79	0.89	1.11	1.32	1.63
	2.0	0.60	0.75	0.85	1.05	1.25	1.55
	2.1	0.57	0.71	0.81	1.00	1.19	1.48
	2.2	0.55	0.68	0.77	0.95	1.14	1.41
	2.3	0.52	0.65	0.74	0.91	1.09	1.35
2.4	0.50	0.63	0.71	0.88	1.04	1.29	
2.5	0.48	0.60	0.68	0.84	1.00	1.24	

EOAI²= EOA / BSA

