



MITRAL VALVE

TTK CHITRA HEART VALVES

Rigid Tilting Disc Heart Valve Substitute

Keeps the life moving...





The TTK Group founded in 1928 is one of the oldest business houses in India. The Group has a turn-over of US\$ 500 million with 25 product categories, 12 manufacturing units and more than 5000 employees. TTK Healthcare Limited, a constituent of the TTK Group, was established in 1958. The range of products that form the company's brand wagon include Pharmaceuticals, Biomedical Devices, Personal Care, Consumer Products and Foods.

THE
HEART
VALVE
DIVISION

The Heart Valve Division of TTK Healthcare Limited manufactures the Rigid Tilting Disc Mono Leaflet Mechanical Heart Valves known as the **TTK Chitra Heart Valves** - a product which has undergone more than 10 years of research & development partnered with Sree Chitra Tirunal Institute for Medical Sciences & Technology (SCTIMST), Kerala, India. TTK Chitra Heart Valves are the proud market leaders and continue to provide a new lease of life with their indigenous TTK Chitra Heart Valves at an affordable cost.

COMPONENTS

- A monolithic frame carved out of a single block of Chrome Cobalt alloy, long proven in cardiac valve implants.
- An occluder made from tough and durable Ultra High Molecular Weight Polyethylene (UHMWPE), a material which provides silent operation and low cavitation.
- A sewing ring made from knitted Polyester, another stable material with excellent track record as a cardiovascular implant material.







SALIENT FEATURES

- Superior haemodynamics
- Complete structural integrity
- Absence of cavitation related damage to blood and occluder
- Low thromboembolism
- Silent operation
- Rotatable within the sewing ring to assure freedom to rotate in the event that repositioning is required
- Free rotation of disc on its axis thereby distributing the wear uniformly over the surface of the disc

TTK Chitra Heart Valve has been in clinical use since its first human implantation during December 1990.

More than 30 years of clinical history.

Over 1,50,000 clinical implantations spread over 400 + centres.

Clinical performance comparable to any other mechanical heart valve.

Recipient of the Prestigious National Technology Award 2001 for "Successful Commercialisation of Indigenous Technology" from the Government of India.

The Manufacturing facility located at Trivandrum is accredited with EN ISO 13485:2016 by the British Standard Institution (BSI) for the Design, Development, Manufacture, Marketing and Supply of TTK Chitra artificial heart valve prosthesis and accessories.

Manufacturing licence from Central Drugs Standard Control Organisation (CDSCO).

CE certification in accordance with the requirements of Medical Device Directive 93/42/EEC from PCBC, Poland, NB No.: 1434.



TTK CHITRA HEART VALVES

International quality at affordable price









Model TC1

AORTIC VALVE

(Intra-Annular Sewing Ring)

MITRAL VALVE

(Supra-Annular Sewing Ring)

Model No.	Cat. No.		Valve Size	VOD	TAD	VHC	VHO
	TC1	TC1-H	(mm)	(mm)	(mm)	(mm)	(mm)
TC1/ TC1-H	17A	17AH	#17	12.8	17.0	5.0	12.0
	19A	19AH	#19	14.4	19.0	5.0	13.5
	21A	21AH	#21	16.0	21.0	6.0	15.0
	23A	23AH	#23	18.0	23.0	6.0	16.9
	25A	25AH	#25	20.0	25.0	6.0	18.7
	27A	27AH	#27	22.0	27.0	6.0	20.5
	29A	29AH	#29	24.0	29.0	6.0	22.5

Model No.	Cat. No.		Valve Size	VOD TAD		MFD	VHC	VHO
	TC1	TC1-H	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
TC1/ TC1-H	23M	23MH	#23	18.0	23.0	29.0	6.0	16.9
	25M	25MH	#25	20.0	25.0	31.0	6.0	18.7
	27M	27MH	#27	22.0	27.0	33.0	6.0	20.5
	29M	29MH	#29	24.0	29.0	35.0	6.0	22.5
	31M	31MH	#31	26.0	31.0	37.0	6.0	24.4
	33M	33MH	#33	26.0	33.0	39.0	6.0	24.4

VOD: Valve Orifice Diameter TAD: Tissue Annulus Diameter VHC: Valve Height Closed VHO: Valve Height Open MFD: Mitral Flange Diameter











For orders and enquiries, kindly contact:

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