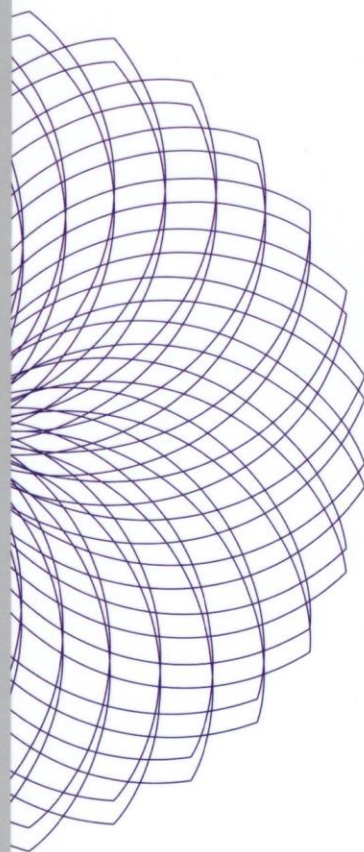


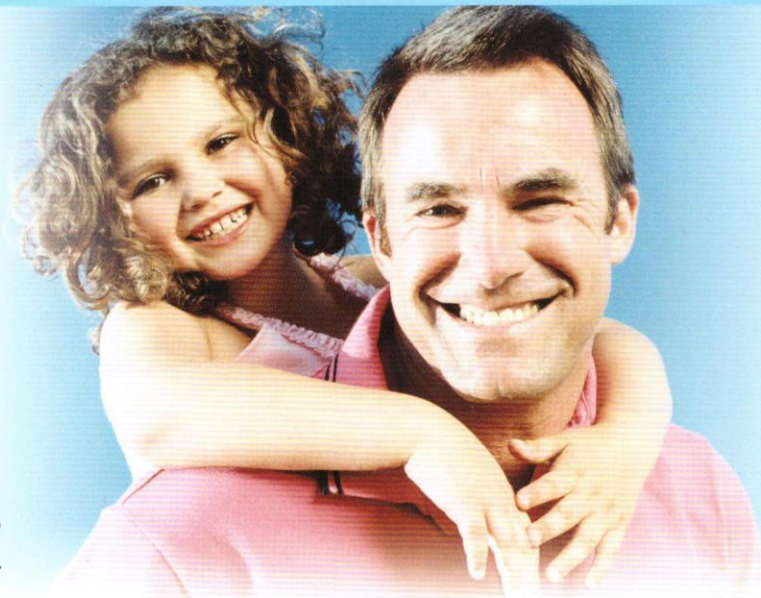
MEMOPART™ Occluders



Successful Restoration of a Healthy Heart



MemoPart™ Occluders provide Accuracy, Safety and Flexibility to meet the clinical needs

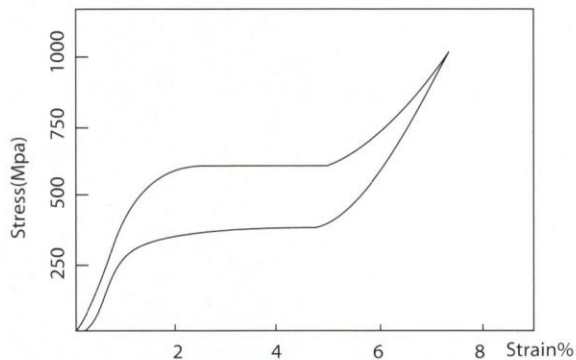


Accuracy

Optimal heat treatment on the nitinol wire provides superior elasticity for accurate positioning and deployment of occluder.

Materials: Tension
File name: XUNT6-1A.DAT Date: 00.05.22
Sample L: 77mm Current(A): 1
D: .4mm AMP.M.: 100
Rate(K/min): 5

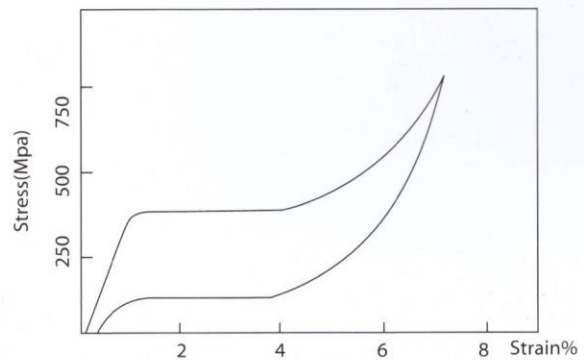
Serve TEMP.(K)300



MemoPart™

Materials: Tension
File name: XUNT5-1A.DAT Date: 00.05.22
Sample L: 108mm Current(A): 1
D: .4mm AMP.M.: 100
Rate(K/min): 5

Serve TEMP.(K)300



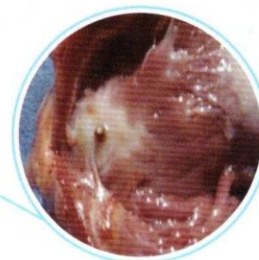
Competitor's

• The nitinol wire of Memopart™ can bear more than two times' stress than wire of competitor

Safety

- **Specially Treated Nitinol Wire:** The special oxidization process enables a smoother surface and it can effectively prevent nickel ion release to achieve the highest possible biocompatibility.

- **The Short Hub Design:** The short hub design enables fast endothelialization, minimizing the risk of thrombosis

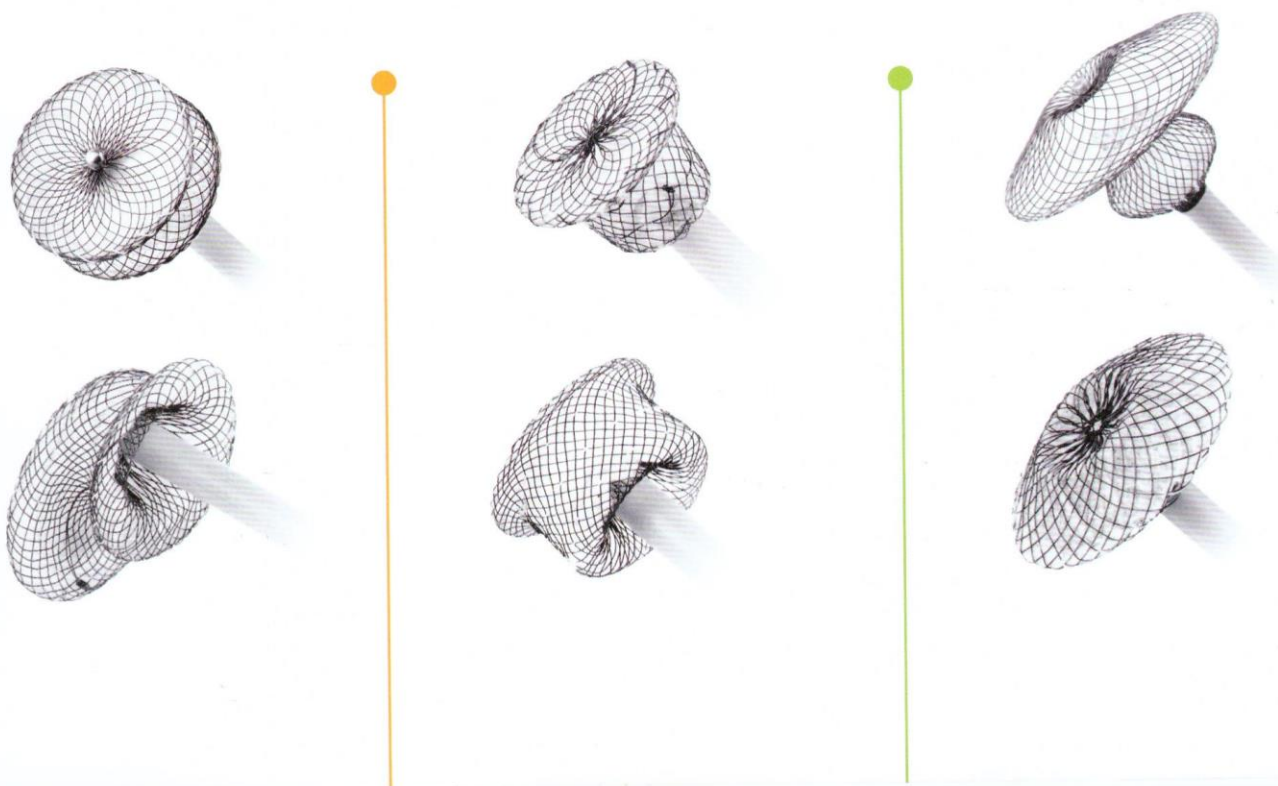


- **50000 implantations in 10 years guarantee long term safety**

The Occluders were produced according to the highest quality standards. Lepu Medical is also dedicated to improving its technology and process to supply the best products to the customers. Since the implantation of first occluder in 2003, over 50000 products have been applied in over 30 countries worldwide. The performance and long term safety have been verified through multiple clinical trials.

Flexibility

Customized designs provide the flexibility to perfectly fit different defects and meet the clinical needs.

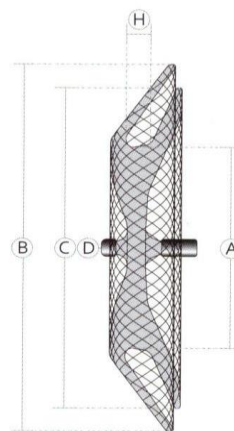




MemoPart™

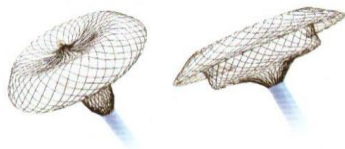
Atrial Septal Defect (ASD) Occluder

MemoPart™ ASD is a percutaneous, transcatheter, atrial septal defect closure device intended for the occlusion of atrial septal defects (ASD) in septum position or patients who have undergone a fenestrated Fontan procedure and who now require closure of the fenestration.



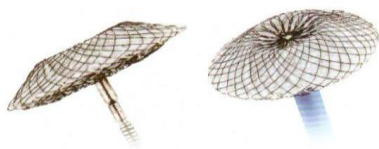
Typical structure of MemoPart™ ASDO

- A: Connecting Waist diameter
- B: Left atrium (LA) disc diameter
- C: Right atrium (RA) disc diameter
- D: Stainless steel hub
- H: Height of connecting waist



Ordering Information

Catalogue No.	Device Size	A Connecting waist diameter (mm)	H Height of connecting waist (mm)	B LA Disc Diameter (mm)	C RA Disc Diameter (mm)	Smallest Recommended Sheath Size
FQFDQ- I 06	6	6.0	3.0	16.0	14.0	8F
FQFDQ- I 07	7	7.0	3.0	21.0	17.0	8F
FQFDQ- I 08	8	8.0	3.0	18.0	16.0	8F
FQFDQ- I 09	9	9.0	3.0	23.0	19.0	8F
FQFDQ- I 10	10	10.0	3.0	20.0	18.0	9F
FQFDQ- I 11	11	11.0	3.0	25.0	21.0	9F
FQFDQ- I 12	12	12.0	3.0	22.0	20.0	9F
FQFDQ- I 13	13	13.0	3.0	27.0	23.0	9F
FQFDQ- I 14	14	14.0	3.0	24.0	22.0	9F
FQFDQ- I 15	15	15.0	4.0	29.0	25.0	9F
FQFDQ- I 16	16	16.0	4.0	30.0	26.0	10F
FQFDQ- I 17	17	17.0	4.0	31.0	27.0	10F
FQFDQ- I 18	18	18.0	4.0	32.0	28.0	10F
FQFDQ- I 19	19	19.0	4.0	33.0	29.0	10F
FQFDQ- I 20	20	20.0	4.0	34.0	30.0	10F
FQFDQ- I 22	22	22.0	4.0	36.0	32.0	10F
FQFDQ- I 24	24	24.0	4.0	38.0	34.0	12F
FQFDQ- I 26	26	26.0	4.0	40.0	36.0	12F
FQFDQ- I 28	28	28.0	4.0	42.0	38.0	12F
FQFDQ- I 30	30	30.0	4.0	44.0	40.0	12F
FQFDQ- I 32	32	32.0	4.0	46.0	42.0	12F
FQFDQ- I 34	34	34.0	4.0	48.0	44.0	14F
FQFDQ- I 36	36	36.0	4.0	50.0	46.0	14F
FQFDQ- I 38	38	38.0	4.5	54.0	50.0	14F
FQFDQ- I 40	40	40.0	4.5	56.0	52.0	14F
FQFDQ- I 42	42	42.0	4.5	58.0	54.0	14F



No hub ASDs for easier endothelialization

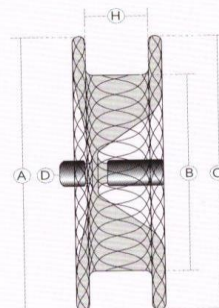
Ordering Information

Catalogue No.	Device Size	A Connecting waist diameter (mm)	H Height of connecting waist (mm)	B LA Disc Diameter (mm)	C RA Disc Diameter (mm)	Smallest Recommended Sheath Size
WTFQFDQ- I 06	6	6.0	3.0	16.0	14.0	8F
WTFQFDQ- I 07	7	7.0	3.0	21.0	17.0	8F
WTFQFDQ- I 08	8	8.0	3.0	18.0	16.0	8F
WTFQFDQ- I 09	9	9.0	3.0	23.0	19.0	8F
WTFQFDQ- I 10	10	10.0	3.0	20.0	18.0	9F
WTFQFDQ- I 11	11	11.0	3.0	25.0	21.0	9F
WTFQFDQ- I 12	12	12.0	3.0	22.0	20.0	9F
WTFQFDQ- I 13	13	13.0	3.0	27.0	23.0	9F
WTFQFDQ- I 14	14	14.0	3.0	24.0	22.0	9F

MemoPart™

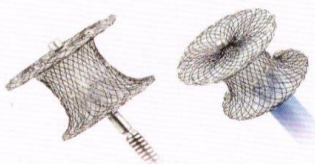
Ventricular Septal Defect (VSD) Occluder

MemoPart™ VSD Occluder (VSDO) generally can be separated into two kinds, Muscular VSD Occluder and Membranous VSD Occluder. MemoPart™ Muscular VSDO to allow closure of muscular ventricular defects using a minimally-invasive catheter procedure instead of surgery. Membranous VSDO is only applicable for membranous ventricular septal defect with a diameter between 4-16mm and the distance from the edge of the defect to the aorta and to the tricuspid valve being more than 3mm at the presence of left-to-right shunt accompanied by right ventricular overloading. The modified designs reduce cAVB rate evidently and minimize the risk of corrosion to aortic root and regurgitation.



Typical structure of MemoPart™ VSDO

- A: Left ventricular (LV) disc diameter
- B: Connecting waist diameter
- C: Right ventricular (RV) disc diameter
- D: Stainless steel hub
- H: Height of connecting waist

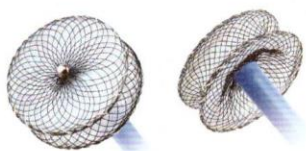


MemoPart™ Muscular VSDO SQFDQ- I

Ordering Information

Catalogue No	Device Size	A LV Disc Diameter (mm)	H Height of connecting waist (mm)	B Connecting Waist diameter (mm)	C RV Disc Diameter (mm)	Smallest Recommended Sheath Size
SQFDQ- I 06	6	12.0	7.0	6.0	10.0	7F
SQFDQ- I 07	7	13.0	7.0	7.0	11.0	8F
SQFDQ- I 08	8	14.0	7.0	8.0	12.0	8F
SQFDQ- I 09	9	15.0	7.0	9.0	13.0	8F
SQFDQ- I 10	10	16.0	7.0	10.0	14.0	9F
SQFDQ- I 12	12	18.0	7.0	12.0	15.0	9F
SQFDQ- I 14	14	20.0	7.0	14.0	17.0	10F
SQFDQ- I 16	16	22.0	7.0	16.0	20.0	10F
SQFDQ- I 18	18	24.0	7.0	18.0	22.0	10F

Membranous VSD Occluder



SQFDQ-II Symmetric Occluder

Ordering Information

Catalogue No	Device Size	A LV Disc Diameter (mm)	H Height of connecting waist (mm)	B Connecting Waist diameter (mm)	C RV Disc Diameter (mm)	Smallest Recommended Sheath Size
SQFDQ-II 04	4	8.0	2.6	4.0	8.0	6F
SQFDQ-II 05	5	9.0	3.0	5.0	9.0	7F
SQFDQ-II 06	6	10.0	3.0	6.0	10.0	7F
SQFDQ-II 07	7	11.0	3.5	7.0	11.0	8F
SQFDQ-II 08	8	12.0	3.5	8.0	12.0	8F
SQFDQ-II 09	9	13.0	4.0	9.0	13.0	8F
SQFDQ-II 10	10	14.0	4.0	10.0	14.0	9F
SQFDQ-II 12	12	16.0	4.5	12.0	15.0	9F
SQFDQ-II 14	14	18.0	4.5	14.0	17.0	10F
SQFDQ-II 16	16	22.0	5.0	16.0	20.0	10F
SQFDQ-II 18	18	24.0	5.0	18.0	22.0	10F
SQFDQ-II 20	20	26.0	5.0	20.0	24.0	10F



SQFDQ-III Asymmetric Occluder is design for cover multiple defects in one area at the same time. This is so called "small waist with bigger disc".

Ordering Information

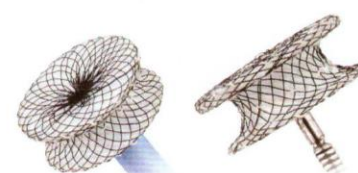
Catalogue No	Device Size	A LV Disc Diameter (mm)	H Height of connecting waist (mm)	B Connecting Waist diameter (mm)	C RV Disc Diameter (mm)	Smallest Recommended Sheath Size
SQFDQ-III 04	4	12.0	3.2	4.0	8.0	6F
SQFDQ-III 05	5	13.0	4.0	5.0	9.0	7F
SQFDQ-III 06	6	14.0	4.0	6.0	10.0	7F
SQFDQ-III 07	7	15.0	4.0	7.0	11.0	8F
SQFDQ-III 08	8	16.0	4.0	8.0	12.0	8F
SQFDQ-III 09	9	17.0	4.0	9.0	13.0	8F
SQFDQ-III 10	10	18.0	4.5	10.0	14.0	9F
SQFDQ-III 12	12	20.0	4.5	12.0	16.0	9F
SQFDQ-III 14	14	22.0	4.5	14.0	18.0	10F
SQFDQ-III 16	16	24.0	5.0	16.0	20.0	10F
SQFDQ-III 18	18	26.0	5.0	18.0	22.0	12F



SQFDQ-IV Zero rim eccentric occluder for lesions close to aortic valve, avoiding contact with valve and tendon

Ordering Information

Catalogue No	Device Size	A LV Disc Diameter (mm)	H Height of connecting waist (mm)	B Connecting Waist diameter (mm)	C RV Disc Diameter (mm)	Smallest Recommended Sheath Size
SQFDQ-IV 04	4	10.0	3.5	4.0	8.0	7F
SQFDQ-IV 05	5	11.0	3.5	5.0	9.0	7F
SQFDQ-IV 06	6	12.0	4.0	6.0	10.0	7F
SQFDQ-IV 07	7	13.0	4.0	7.0	11.0	8F
SQFDQ-IV 08	8	14.0	4.5	8.0	12.0	8F
SQFDQ-IV 09	9	15.0	5.0	9.0	13.0	9F
SQFDQ-IV 10	10	18.0	5.0	10.0	15.0	9F
SQFDQ-IV 12	12	22.0	5.0	12.0	18.0	10F
SQFDQ-IV 14	14	24.0	5.0	14.0	20.0	10F
SQFDQ-IV 16	16	26.0	5.0	16.0	22.0	12F



WTSQFDQ-I No hub VSD is better for endothelialization. Only symmetric shape is available for this type.

Ordering Information

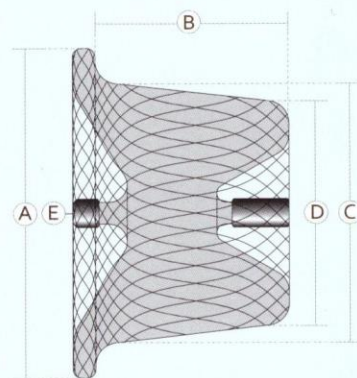
Catalogue No	Device Size	A LV Disc Diameter (mm)	H Height of connecting waist (mm)	B Connecting Waist diameter (mm)	C RV Disc Diameter (mm)	Smallest Recommended Sheath Size
WTSQFDQ-I 04	4	8.0	2.6	4.0	8.0	6F
WTSQFDQ-I 05	5	9.0	3.0	5.0	9.0	7F
WTSQFDQ-I 06	6	10.0	3.0	6.0	10.0	7F
WTSQFDQ-I 07	7	11.0	3.5	7.0	11.0	8F
WTSQFDQ-I 08	8	12.0	3.5	8.0	12.0	8F
WTSQFDQ-I 09	9	13.0	4.0	9.0	13.0	8F
WTSQFDQ-I 10	10	14.0	4.0	10.0	14.0	9F
WTSQFDQ-I 12	12	16.0	4.5	12.0	15.0	9F
WTSQFDQ-I 14	14	18.0	4.5	14.0	17.0	10F



MemoPart™

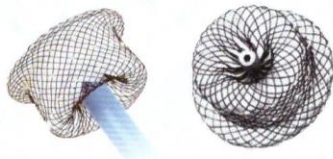
Patent Ductus Arteriosus (PDA) Occluder

PDA Occluder is indicated to treat patent ductus arteriosus. A retention skirt on the aortic side provides secure positioning in the ampulla of the ductus. As the occluder is implanted, it expands outward and the wires push against the wall of the ductus.



Typical structure of MemoPart™ PDAO

- A: Aortic disc diameter
- B: Height of connecting waist
- C: Aortic waist diameter
- D: Pulmonic waist diameter
- E: stainless steel hub



WBFDQ Straight shape PDA provides more sizes for different defects

Ordering Information

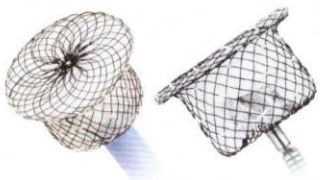
Catalogue No	Device Size	A Aortic disc Diameter (mm)	B Height of connecting waist (mm)	C Aortic waist diameter (mm)	D Pulmonic waist diameter (mm)	Smallest Recommended Sheath Size
WBFDQ- I 05	5	8.0	4.5	5.0	5.0	6F
WBFDQ- I 06	6	9.0	5.0	6.0	6.0	7F
WBFDQ- I 07	7	10.0	6.0	7.0	7.0	7F
WBFDQ- I 08	8	11.0	6.0	8.0	8.0	7F
WBFDQ- I 09	9	12.0	6.5	9.0	9.0	8F
WBFDQ- I 10	10	14.0	7.0	10.0	10.0	8F
WBFDQ- I 11	11	15.0	7.5	11.0	11.0	9F
WBFDQ- I 12	12	16.0	8.0	12.0	12.0	9F
WBFDQ- I 13	13	17.0	8.5	13.0	13.0	10F
WBFDQ- I 14	14	18.0	9.0	14.0	14.0	10F
WBFDQ- I 16	16	21.0	10.0	16.0	16.0	10F
WBFDQ- I 18	18	23.0	10.5	18.0	18.0	12F
WBFDQ- I 20	20	25.0	12.0	20.0	20.0	12F
WBFDQ- I 22	22	27.0	12.0	22.0	22.0	12F



WBFDQ- II
Tapered design fits for the anatomy of PDA

Ordering Information

Catalogue No	Device Size	A Aortic disc Diameter (mm)	B Height of connecting waist (mm)	C Aortic waist diameter (mm)	D Pulmonic waist diameter (mm)	Smallest Recommended Sheath Size
WBFDQ- II 0406	0406	9.0	5.0	6.0	4.0	6F
WBFDQ- II 0608	0608	12.0	6.0	8.0	6.0	7F
WBFDQ- II 0810	0810	14.0	7.0	10.0	8.0	7F
WBFDQ- II 1012	1012	16.0	8.0	12.0	10.0	8F
WBFDQ- II 1214	1214	18.0	9.0	14.0	12.0	9F
WBFDQ- II 1416	1416	21.0	10.0	16.0	14.0	10F
WBFDQ- II 1618	1618	23.0	10.5	18.0	16.0	10F
WBFDQ- II 1820	1820	25.0	12.0	20.0	18.0	12F
WBFDQ- II 2022	2022	27.0	12.0	22.0	20.0	12F



WTWBFDQ- I
No hub straight shape PDA is better for endothelialization.

Ordering Information

Catalogue No	Device Size	A Aortic disc Diameter (mm)	B Height of connecting waist (mm)	C Aortic waist diameter (mm)	D Pulmonic waist diameter (mm)	Smallest Recommended Sheath Size
WTWBFDQ- I 05	5	8.0	4.5	5.0	5.0	6F
WTWBFDQ- I 06	6	9.0	5.0	6.0	6.0	7F
WTWBFDQ- I 07	7	10.0	6.0	7.0	7.0	7F
WTWBFDQ- I 08	8	11.0	6.0	8.0	8.0	7F
WTWBFDQ- I 09	9	12.0	6.5	9.0	9.0	8F
WTWBFDQ- I 10	10	14.0	7.0	10.0	10.0	8F
WTWBFDQ- I 11	11	15.0	7.5	11.0	11.0	9F
WTWBFDQ- I 12	12	16.0	8.0	12.0	12.0	9F
WTWBFDQ- I 13	13	17.0	8.5	13.0	13.0	10F
WTWBFDQ- I 14	14	18.0	9.0	14.0	14.0	10F



WTWBFDQ- II Single end, tapered share occluder, compatible with smaller sheath

Ordering Information

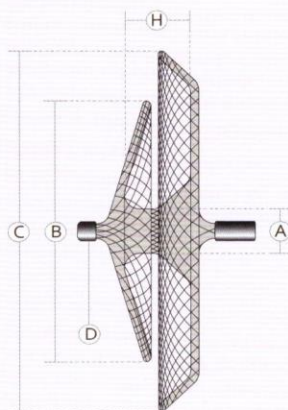
Catalogue No	Device Size	A Aortic disc Diameter (mm)	B Height of connecting waist (mm)	C Aortic waist diameter (mm)	D Pulmonic waist diameter (mm)	Smallest Recommended Sheath Size
WTWBFDQ- II 0406	0406	9.0	5.0	6.0	4.0	6F
WTWBFDQ- II 0608	0608	12.0	6.0	8.0	6.0	7F
WTWBFDQ- II 0810	0810	14.0	7.0	10.0	8.0	7F
WTWBFDQ- II 1012	1012	16.0	8.0	12.0	10.0	8F
WTWBFDQ- II 1214	1214	18.0	9.0	14.0	12.0	9F



MemoPart™

Patent Foramen Ovale (PFO) Occluder

MemoPart™ PFO Occluder (PFO) is a percutaneous, transcatheter occluder intended to close all types Patent Foramen Ovale in patients with a history of stroke or transient ischemic attacks (TIAs).



Typical structure of MemoPart™ PFOO

- A: Connecting Waist diameter
- B: Left atrium (LA) disc diameter
- C: Right atrium (RA) disc diameter
- D: Stainless steel hub
- H: Height of connecting waist



Ordering Information

Catalogue No.	Device Size	A Connecting waist diameter (mm)	H Height of connecting waist (mm)	B LA Disc Diameter (mm)	C RA Disc Diameter (mm)	Smallest Recommended Sheath Size
LYKFDQ- I 18	18	3.5	6.0	18.0	18.0	10F
LYKFDQ- I 24	24	4.0	7.0	18.0	24.0	10F
LYKFDQ- I 30	30	4.5	7.0	22.0	28.0	12F
LYKFDQ- I 34	34	5.0	7.0	25.0	34.0	12F
WTLYKFDQ- I 18	18	3.5	6.0	18.0	18.0	10F

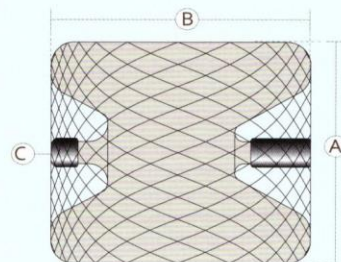


MemoPart™

Plug Occluder

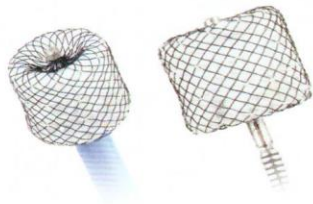
MemoPart™ Plug Occluder can be used for a wide variety of occlusions of veins or arteries. Reducing or eliminating blood flow to an area of the body by blocking. Plug can be used for patients with clinical symptoms of abnormal blood vessels, such as:

- Aortopulmonary collaterals
- Arteriovenous malformation
- Surgical aortopulmonary shunts
- Anomalous venovenous connections
- Arteriovenous fistulas
- Peripheral vessels



Typical structure of MemoPart™ PLUG

A: Plug diameter B: Plug length C: stainless steel hub



Ordering Information

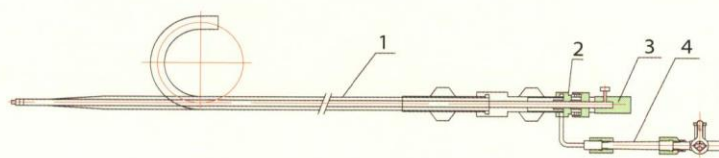
Catalogue No.	Device Size	A Plug diameter (mm)	B Plug length (mm)	Smallest Recommended Sheath Size
XGSFDQ- I 04	4	4.0	5.0	6F
XGSFDQ- I 06	6	6.0	6.5	7F
XGSFDQ- I 08	8	8.0	7.5	8F
XGSFDQ- I 10	10	10.0	8.5	9F
XGSFDQ- I 12	12	12.0	9.5	9F
XGSFDQ- I 14	14	14.0	10.5	9F
XGSFDQ- I 16	16	16.0	11.0	10F
XGSFDQ- I 18	18	18.0	11.0	10F
XGSFDQ- I 20	20	20.0	12.0	10F
XGSFDQ- I 22	22	22.0	13.0	10F
WTXGSFDQ- I 04	4	4.0	5.0	6F
WTXGSFDQ- I 06	6	6.0	6.5	7F
WTXGSFDQ- I 08	8	8.0	7.5	8F
WTXGSFDQ- I 10	10	10.0	8.5	9F
WTXGSFDQ- I 12	12	12.0	9.5	9F
WTXGSFDQ- I 14	14	14.0	10.5	9F



MemoPart™

Occluder Delivery System

- Designed to deliver MemoPart™ Occluder. The device and delivery system are shipped separately. The body of the sheath is radiopaque for visibility under X-rays.
- Constituted of loader, long sheath, pusher, connecting tube, dilator and snare.
- Two types: ODS-A and ODS-P/V. ODS-A occluder delivery system is used for ASD and PFO occluder, ODS-P/V occluder delivery system is used for VSD, PDA and Plug .
- The 20cm short delivery system is specially designed for the perventricular minimal invasive surgery.
- The anti-kink delivery system is available for VSD closure.



Structure of occluder delivery system

1.long sheath 2.dilator 3.pusher 4.connecting tube

Ordering Information

ODS-A for ASD and PFO occluder

Catalogue No.	Loader		Long/Short sheath			Dilator		Pusher	
	ID, French	Effective Length(mm)	ID, French	Effective Length (mm) (Long/Short Sheath)	Angle(°) (Long/Short Sheath)	OD, French	Effective Length (mm) (Long/Short Sheath)	Effective Length (mm) (Long/Short Sheath)	Diameter (mm) (Long/Short Sheath)
ODS-A-8F	8F	110	8F	835/150	135°/--	8F	950/210	1200/460	1.8
ODS-A-9F	9F	110	9F	835/150	135°/--	9F	950/210	1200/460	1.8
ODS-A-10F	10F	110	10F	835/150	135°/--	10F	950/210	1200/460	1.9
ODS-A-12F	12F	140	12F	835/150	135°/--	12F	950/210	1200/460	2.1/2.0
ODS-A-14F	14F	140	14F	835/200	135°/--	14F	950/260	1200/460	2.1/2.0

ODS-P/V for VSD, PDA and Plug

Catalogue No.	Loader		Long/Short sheath			Dilator		pusher	
	ID, French	Effective Length(mm)	ID, French	Effective Length (mm) (Long/Short Sheath)	Angle(°) (Long/Short Sheath)	OD, French	Effective Length (mm) (Long/Short Sheath)	Effective Length (mm) (Long/Short Sheath)	Diameter (mm)
ODS-P/V-6F	6F	110	6F	835/150	180°/--	6F	950/210	1200/460	1.6
ODS-P/V-7F	7F	110	7F	835/150	180°/--	7F	950/210	1200/460	1.8
ODS-P/V-8F	8F	110	8F	835/150	180°/--	8F	950/210	1200/460	1.8
ODS-P/V-9F	9F	110	9F	835/150	180°/--	9F	950/210	1200/460	1.8
ODS-P/V-10F	10F	110	10F	835/150	180°/--	10F	950/210	1200/460	1.9

Snare

Snare	Catalogue No.	Snare-15	Snare-20
	Effective Length (mm)	1290	1290
Snare	Diameter of snare circle (mm)	15	20
	Angle	90°	90°



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