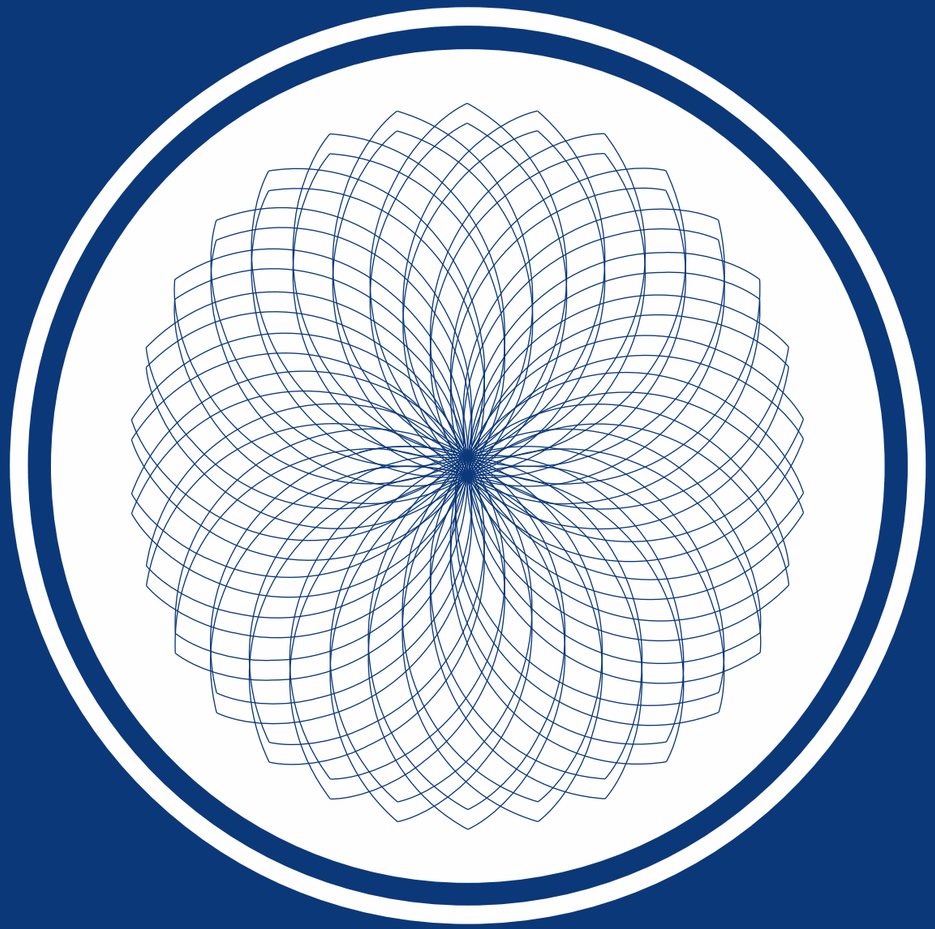
Your ***Needs*** • Our ***Design***



Occluder Device Catalogue

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LEPU MEDICAL SHSMA ScienTech

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MemoPart™

Makes Your First Choice

No.1 market share in Chinese market
More than 22 years usage by the professionals
Over 200,000 cases of implantation globally

Nothing Can Be More Accurate Than Fit

Elasticity

Optimal heat treatment on the Nitinol wire provides the occluder superior elasticity for easier delivery.

Rigidity

Modified rigidity and flexibility for different type of occluders are designed to meet different clinical requirements.

Type	Stiffness	Resilience	Applications
ASD	■■■	■■■	Greater stiffness offers excellent supporting force for big disks
VSD	■	■■■	Less stiffness reduces the holding force to minimize the risk of third degree atrioventricular block
PDA	■■	■■■	Balanced stiffness ensures the optimal occlusion performance
Plug	■■	■■	Minimized vessel damage, good positioning

Structure

Special braided wires structure provides excellent radial strength that ensures ideal configuration after deployment, allows of full cross-sectional orifice coverage, and minimizes operation risk.

Shape and Size

Complete range of occluder specifications can satisfy the most types and sizes of defects.
(eg. sizes of ASD occluder range from 6mm to 50mm).

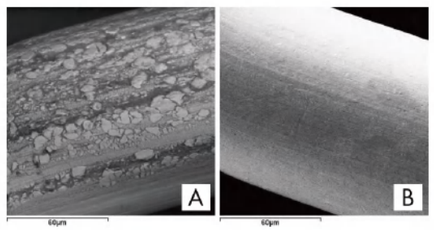
More Options Available

Customized designs provide additional choices to meet different clinical requirements.

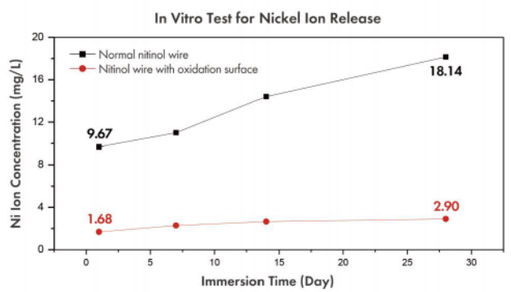
Safety Is What We Always Care About

Heat - treated Nitinol Wire

Special oxidization process makes the compact and uniform surface of TiO_2 on the nitinol wire. The oxidation surface effectively prevents from the release of nickel ion to guarantee great biocompatibility and long-term safety.

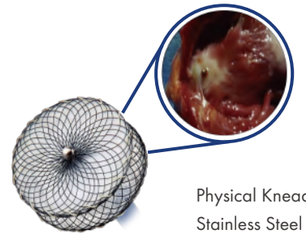


A: Normal Nitinol Wire B: Heat - treated Nitinol Wire



Physical Kneaded Hub

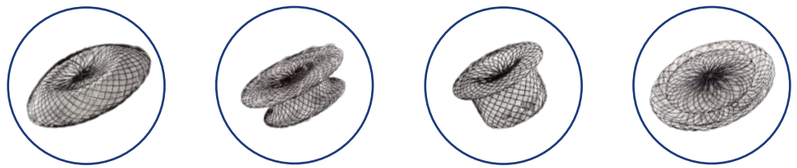
Comparing to welded hub, the physical kneaded stainless steel hub is stable, durable and safe to avoid not only the change of nitinol wire's physical properties, but also the release of harmful ions while welding.



Physical Kneaded
Stainless Steel Hub

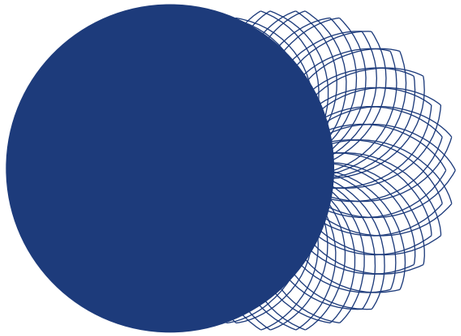
Hubless Occluders

The hubless design is available for most type of occluders to help with easier and better endothelialization.



Multiple Sizes of Waist Length for VSD Occluder

Instead of only one size of waist length, MemoPart ™ VSD occluders provide 3-4 sizes of waist length to minimize the negative impact of compression force, which could highly reduce the risk of third degree atrioventricular block.



MemoPart™

Atrial Septal Defect (ASD) Occluder CE

MemoPart™ ASD Occluder is a percutaneous, transcatheter device applied to the closure of atrial septal defects (ASD). It is also available for the patient who require a closure of fenestrated Fontan.



ASD Occluder



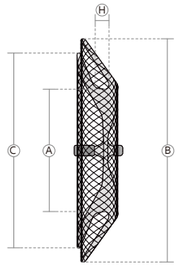
Hubless ASD Occluder



Multi-Fenestrated ASD Occluder

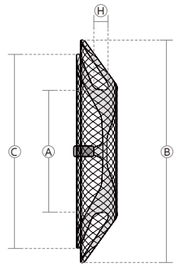


Hubless Multi-Fenestrated ASD Occluder



MemoPart™ ASD Occluder

Model & Specification	Device Size	A Waist Diameter (mm)	B Left Disc Diameter (mm)	C Right Disc Diameter (mm)	H Waist Height (mm)	Smallest Recommended Sheath Size (F)
FQFDQ-I 06	06	6	16	14	5.5	7
FQFDQ-I 07	07	7	21	17	5.5	8
FQFDQ-I 08	08	8	18	16	5.5	8
FQFDQ-I 09	09	9	23	19	5.5	8
FQFDQ-I 10	10	10	20	18	5.5	8
FQFDQ-I 11	11	11	25	21	5.5	8
FQFDQ-I 12	12	12	22	20	5.5	8
FQFDQ-I 13	13	13	27	23	5.5	9
FQFDQ-I 14	14	14	24	22	5.5	9
FQFDQ-I 15	15	15	29	25	5.5	9
FQFDQ-I 16	16	16	30	26	5.5	9
FQFDQ-I 17	17	17	31	27	5.5	9
FQFDQ-I 18	18	18	32	28	5.5	9
FQFDQ-I 19	19	19	33	29	5.5	10
FQFDQ-I 20	20	20	34	30	5.5	10
FQFDQ-I 22	22	22	36	32	5.5	10
FQFDQ-I 24	24	24	38	34	5.5	10
FQFDQ-I 26	26	26	40	36	5.5	12
FQFDQ-I 28	28	28	42	38	5.5	12
FQFDQ-I 30	30	30	44	40	5.5	12
FQFDQ-I 32	32	32	47	42	5.5	12
FQFDQ-I 34	34	34	49	44	5.5	14
FQFDQ-I 36	36	36	51	46	5.5	14
FQFDQ-I 38	38	38	54	50	5.5	14
FQFDQ-I 40	40	40	56	52	5.5	14
FQFDQ-I 42	42	42	58	54	5.5	14
FQFDQ-I 44	44	44	60	56	5.5	14
FQFDQ-I 46	46	46	62	58	5.5	14
FQFDQ-I 48	48	48	64	60	5.5	14
FQFDQ-I 50	50	50	66	62	5.5	14



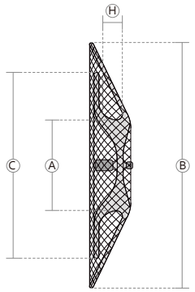
MemoPart™ Hubless ASD Occluder

Model & Specification	Device Size	A Waist Diameter (mm)	B Left Disc Diameter (mm)	C Right Disc Diameter (mm)	H Waist Length (mm)	Smallest Recommended Sheath Size (F)
WTFQFDQ-I 06	06	6	16	14	5.5	7
WTFQFDQ-I 07	07	7	21	17	5.5	8
WTFQFDQ-I 08	08	8	18	16	5.5	8
WTFQFDQ-I 09	09	9	23	19	5.5	8
WTFQFDQ-I 10	10	10	20	18	5.5	8
WTFQFDQ-I 11	11	11	25	21	5.5	8
WTFQFDQ-I 12	12	12	22	20	5.5	8
WTFQFDQ-I 13	13	13	27	23	5.5	9
WTFQFDQ-I 14	14	14	24	22	5.5	9
WTFQFDQ-I 15	15	15	29	25	5.5	9
WTFQFDQ-I 16	16	16	30	26	5.5	9
WTFQFDQ-I 17	17	17	31	27	5.5	9
WTFQFDQ-I 18	18	18	32	28	5.5	9
WTFQFDQ-I 19	19	19	33	29	5.5	10
WTFQFDQ-I 20	20	20	34	30	5.5	10
WTFQFDQ-I 22	22	22	36	32	5.5	10
WTFQFDQ-I 24	24	24	38	34	5.5	10
WTFQFDQ-I 26	26	26	40	36	5.5	12
WTFQFDQ-I 28	28	28	42	38	5.5	12
WTFQFDQ-I 30	30	30	44	40	5.5	12
WTFQFDQ-I 32	32	32	47	42	5.5	12
WTFQFDQ-I 34	34	34	50	44	5.5	14
WTFQFDQ-I 36	36	36	52	46	5.5	14
WTFQFDQ-I 38	38	38	54	50	5.5	14
WTFQFDQ-I 40	40	40	56	52	5.5	14

MemoPart™ Hubless ASDO

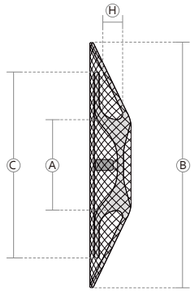
Catalogue No.	Device Size	A Waist Diameter (mm)	B Left Disc Diameter (mm)	C Right Disc Diameter (mm)	H Waist Height (mm)	Smallest Recommend-ed Sheath Size (F)
WTFQFDQ-I 42	42	42	58	54	5.5	14
WTFQFDQ-I 44	44	44	60	56	5.5	14
WTFQFDQ-I 46	46	46	62	58	5.5	14
WTFQFDQ-I 48	48	48	64	60	5.5	14
WTFQFDQ-I 50	50	50	66	62	5.5	14

MemoPart™ Multi-Fenestrated ASD Occluder

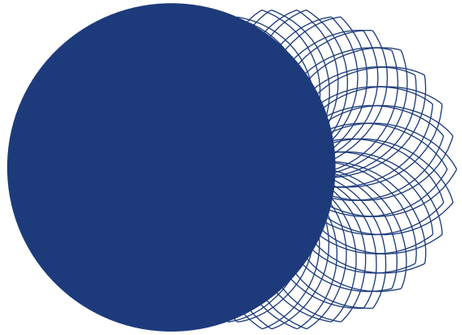


Model & Specification	Device Size	A Waist Diameter (mm)	B Left Disc Diameter (mm)	C Right Disc Diameter (mm)	H Waist Height (mm)	Smallest Recommended Sheath Size (F)
FQFDQ-II 06	06	6	30	22	5.5	8
FQFDQ-II 08	08	8	32	24	5.5	8
FQFDQ-II 10	10	10	34	26	5.5	8
FQFDQ-II 12	12	12	36	28	5.5	9
FQFDQ-II 14	14	14	38	30	5.5	10
FQFDQ-II 16	16	16	40	32	5.5	10
FQFDQ-II 18	18	18	42	34	5.5	10
FQFDQ-II 20	20	20	44	36	5.5	10
FQFDQ-II 22	22	22	46	38	5.5	10
FQFDQ-II 24	24	24	48	40	5.5	12

MemoPart™ Hubless Multi-Fenestrated ASD Occluder



Model & Specification	Device Size	A Waist Diameter (mm)	B Left Disc Diameter (mm)	C Right Disc Diameter (mm)	H Waist Height (mm)	Smallest Recommended Sheath Size (F)
WTFQFDQ-II 06	06	6	30	22	5.5	8
WTFQFDQ-II 08	08	8	32	24	5.5	8
WTFQFDQ-II 10	10	10	34	26	5.5	8
WTFQFDQ-II 12	12	12	36	28	5.5	9
WTFQFDQ-II 14	14	14	38	30	5.5	10
WTFQFDQ-II 16	16	16	40	32	5.5	10
WTFQFDQ-II 18	18	18	42	34	5.5	10
WTFQFDQ-II 20	20	20	44	36	5.5	10
WTFQFDQ-II 22	22	22	46	38	5.5	10
WTFQFDQ-II 24	24	24	48	40	5.5	12



MemoPart™

Ventricular Septal Defect (VSD) Occluder CE

MemoPart™ VSD Occluder is a percutaneous, transcatheter device applied to the closure of ventricular septal defects (VSD). MemoPart™ VSDO includes four different types that divided into muscular VSDO and membranous VSDO.



Muscular VSD Occluder



Membranous Symmetric VSD Occluder



Membranous Asymmetric VSD Occluder



Zero Rim Eccentric VSD Occluder



Hubless Muscular VSD Occluder

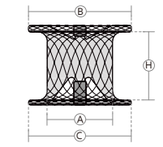


Hubless Membranous Symmetric VSD Occluder

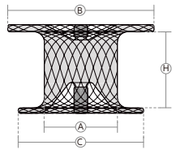


Hubless Membranous Asymmetric VSD Occluder

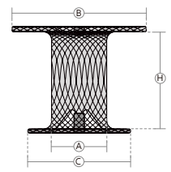
MemoPart™ Muscular VSD Occluder



SQFDQ-I a



SQFDQ-I b



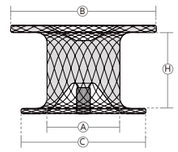
SQFDQ-I c

Model & Specification	Device Size	A Waist Diameter (mm)	B Left Disc Diameter (mm)	C Right Disc Diameter (mm)	H Waist Height (mm)	Smallest Recommended Sheat Size (F)
SQFDQ-I a04	04	4	8	8	5.0	6
SQFDQ-I a05	05	5	9	9	5.0	6
SQFDQ-I a06	06	6	10	10	5.0	7
SQFDQ-I a07	07	7	11	11	5.0	7
SQFDQ-I a08	08	8	12	12	5.0	8
SQFDQ-I a09	09	9	13	13	5.0	8
SQFDQ-I a10	10	10	14	14	5.0	9
SQFDQ-I a12	12	12	16	16	5.0	9
SQFDQ-I a14	14	14	18	18	5.0	10
SQFDQ-I a16	16	16	20	20	5.0	10
SQFDQ-I a18	18	18	22	22	5.0	10
SQFDQ-I b04	04	4	10	8	7.0	6
SQFDQ-I b05	05	5	11	9	7.0	6
SQFDQ-I b06	06	6	12	10	7.0	7
SQFDQ-I b07	07	7	13	11	7.0	7
SQFDQ-I b08	08	8	14	12	7.0	8
SQFDQ-I b09	09	9	15	13	7.0	8
SQFDQ-I b10	10	10	16	14	7.0	9
SQFDQ-I b12	12	12	18	16	7.0	9
SQFDQ-I b14	14	14	20	18	7.0	10
SQFDQ-I b16	16	16	22	20	7.0	10
SQFDQ-I b18	18	18	24	22	7.0	10
SQFDQ-I c04	04	4	14	10	10.0	6
SQFDQ-I c05	05	5	15	11	10.0	7
SQFDQ-I c06	06	6	16	12	10.0	8
SQFDQ-I c07	07	7	17	13	10.0	8
SQFDQ-I c08	08	8	18	14	10.0	8
SQFDQ-I c09	09	9	19	15	10.0	8
SQFDQ-I c10	10	10	20	16	10.0	9
SQFDQ-I c12	12	12	22	18	10.0	9
SQFDQ-I c14	14	14	24	20	10.0	10
SQFDQ-I c16	16	16	26	22	10.0	10
SQFDQ-I c18	18	18	28	24	10.0	10
SQFDQ-I d04	04	04	18	10	10.0	7
SQFDQ-I d05	05	05	19	11	10.0	7
SQFDQ-I d06	06	06	20	12	10.0	8
SQFDQ-I d07	07	07	21	13	10.0	8
SQFDQ-I d08	08	08	22	14	10.0	8
SQFDQ-I d09	09	09	23	15	10.0	8
SQFDQ-I d10	10	10	24	16	10.0	9
SQFDQ-I d12	12	12	26	18	10.0	9
SQFDQ-I d14	14	14	28	20	10.0	10
SQFDQ-I d16	16	16	30	22	10.0	10
SQFDQ-I d18	18	18	32	24	10.0	10

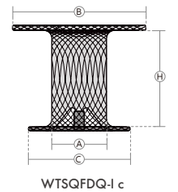
MemoPart™ Hubless Muscular VSD Occluder



WTSQFDQ-I a



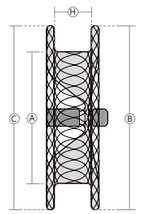
WTSQFDQ-I b



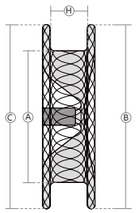
WTSQFDQ-I c

Model & Specification	Device Size	A Waist Diameter (mm)	B Left Disc Diameter (mm)	C Right Disc Diameter (mm)	H Waist Height (mm)	Smallest Recommended Sheat Size (F)
WTSQFDQ-I a04	04	4	8	8	5.0	6
WTSQFDQ-I a05	05	5	9	9	5.0	6
WTSQFDQ-I a06	06	6	10	10	5.0	7
WTSQFDQ-I a07	07	7	11	11	5.0	7
WTSQFDQ-I a08	08	8	12	12	5.0	8
WTSQFDQ-I a09	09	9	13	13	5.0	8
WTSQFDQ-I a10	10	10	14	14	5.0	9
WTSQFDQ-I a12	12	12	16	16	5.0	9
WTSQFDQ-I a14	14	14	18	18	5.0	10
WTSQFDQ-I a16	16	16	20	20	5.0	10
WTSQFDQ-I a18	18	18	22	22	5.0	10
WTSQFDQ-I b04	04	4	10	8	7.0	6
WTSQFDQ-I b05	05	5	11	9	7.0	6
WTSQFDQ-I b06	06	6	12	10	7.0	7
WTSQFDQ-I b07	07	7	13	11	7.0	7
WTSQFDQ-I b08	08	8	14	12	7.0	8
WTSQFDQ-I b09	09	9	15	13	7.0	8
WTSQFDQ-I b10	10	10	16	14	7.0	9
WTSQFDQ-I b12	12	12	18	16	7.0	9
WTSQFDQ-I b14	14	14	20	18	7.0	10
WTSQFDQ-I b16	16	16	22	20	7.0	10
WTSQFDQ-I b18	18	18	24	22	7.0	10
WTSQFDQ-I c04	04	4	14	10	10.0	6
WTSQFDQ-I c05	05	5	15	11	10.0	7
WTSQFDQ-I c06	06	6	16	12	10.0	8
WTSQFDQ-I c07	07	7	17	13	10.0	8
WTSQFDQ-I c08	08	8	18	14	10.0	8
WTSQFDQ-I c09	09	9	19	15	10.0	8
WTSQFDQ-I c10	10	10	20	16	10.0	9
WTSQFDQ-I c12	12	12	22	18	10.0	9
WTSQFDQ-I c14	14	14	24	20	10.0	10
WTSQFDQ-I c16	16	16	26	22	10.0	10
WTSQFDQ-I c18	18	18	28	24	10.0	10
WTSQFDQ-I d04	04	04	18	10	10.0	7
WTSQFDQ-I d05	05	05	19	11	10.0	7
WTSQFDQ-I d06	06	06	20	12	10.0	8
WTSQFDQ-I d07	07	07	21	13	10.0	8
WTSQFDQ-I d08	08	08	22	14	10.0	8
WTSQFDQ-I d09	09	09	23	15	10.0	8
WTSQFDQ-I d10	10	10	24	16	10.0	9
WTSQFDQ-I d12	12	12	26	18	10.0	9
WTSQFDQ-I d14	14	14	28	20	10.0	10
WTSQFDQ-I d16	16	16	30	22	10.0	10
WTSQFDQ-I d18	18	18	32	24	10.0	10

MemoPart™ Membranous Symmetric VSD Occluder



Model & Specification	Device Size	A Waist Diameter (mm)	B Left Disc Diameter (mm)	C Right Disc Diameter (mm)	H Waist Height (mm)	Smallest Recommended Sheat Size (F)
SQFDQ-II a04	04	4	8	8	1.8	6
SQFDQ-II a05	05	5	9	9	1.8	6
SQFDQ-II a06	06	6	10	10	1.8	6
SQFDQ-II a07	07	7	11	11	1.8	6
SQFDQ-II a08	08	8	12	12	1.8	6
SQFDQ-II a09	09	9	13	13	1.8	6
SQFDQ-II a10	10	10	14	14	1.8	6
SQFDQ-II a12	12	12	16	16	1.8	7
SQFDQ-II a14	14	14	18	18	1.8	9
SQFDQ-II a16	16	16	20	20	1.8	10
SQFDQ-II a18	18	18	24	22	1.8	10
SQFDQ-II a20	20	20	26	24	1.8	12

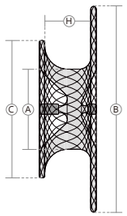


MemoPart™ Membranous Symmetric VSD Occluder

Model & Specification	Device Size	A Waist Diameter (mm)	B Left Disc Diameter (mm)	C Right Disc Diameter (mm)	H Waist Height (mm)	Smallest Recommended Sheat Size (F)
SQFDQ-II b04	04	4	8	8	3.5	6
SQFDQ-II b05	05	5	9	9	4.0	6
SQFDQ-II b06	06	6	10	10	4.0	6
SQFDQ-II b07	07	7	11	11	4.0	6
SQFDQ-II b08	08	8	12	12	4.0	6
SQFDQ-II b09	09	9	13	13	4.5	6
SQFDQ-II b10	10	10	14	14	4.5	6
SQFDQ-II b12	12	12	16	15	4.5	7
SQFDQ-II b14	14	14	18	17	4.5	9
SQFDQ-II b16	16	16	22	20	5.0	10
SQFDQ-II b18	18	18	24	22	5.0	10
SQFDQ-II b20	20	20	26	24	5.0	12

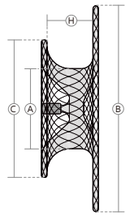
MemoPart™ Hubless Membranous Symmetric VSD Occluder

Model & Specification	Device Size	A Waist Diameter (mm)	B Left Disc Diameter (mm)	C Right Disc Diameter (mm)	H Waist Height (mm)	Smallest Recommended Sheat Size (F)
WTSQFDQ-II a04	04	4	8	8	1.8	6
WTSQFDQ-II a05	05	5	9	9	1.8	6
WTSQFDQ-II a06	06	6	10	10	1.8	7
WTSQFDQ-II a07	07	7	11	11	1.8	7
WTSQFDQ-II a08	08	8	12	12	1.8	7
WTSQFDQ-II a09	09	9	13	13	1.8	8
WTSQFDQ-II a10	10	10	14	14	1.8	8
WTSQFDQ-II a12	12	12	16	16	1.8	9
WTSQFDQ-II a14	14	14	18	18	1.8	9
WTSQFDQ-II a16	16	16	20	20	1.8	10
WTSQFDQ-II a18	18	18	24	22	1.8	10
WTSQFDQ-II a20	20	20	26	24	1.8	12
WTSQFDQ-II b04	04	4	8	8	3.5	6
WTSQFDQ-II b05	05	5	9	9	4.0	6
WTSQFDQ-II b06	06	6	10	10	4.0	6
WTSQFDQ-II b07	07	7	11	11	4.0	6
WTSQFDQ-II b08	08	8	12	12	4.0	6
WTSQFDQ-II b09	09	9	13	13	4.5	6
WTSQFDQ-II b10	10	10	14	14	4.5	6
WTSQFDQ-II b12	12	12	16	15	4.5	7
WTSQFDQ-II b14	14	14	18	17	4.5	9
WTSQFDQ-II b16	16	16	22	20	5.0	10
WTSQFDQ-II b18	18	18	24	22	5.0	10
WTSQFDQ-II b20	20	20	26	24	5.0	12



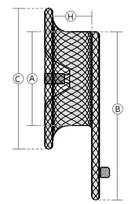
MemoPart™ Membranous Asymmetric VSD Occluder

Model & Specification	Device Size	A Waist Diameter (mm)	B Left Disc Diameter (mm)	C Right Disc Diameter (mm)	H Waist Height (mm)	Smallest Recommended Sheat Size (F)
SQFDQ-III 04	04	4	12	8	3.5	7
SQFDQ-III 05	05	5	13	9	4.0	8
SQFDQ-III 06	06	6	14	10	4.0	8
SQFDQ-III 07	07	7	15	11	4.0	8
SQFDQ-III 08	08	8	16	12	4.0	9
SQFDQ-III 09	09	9	17	13	4.5	9
SQFDQ-III 10	10	10	18	14	4.5	9
SQFDQ-III 12	12	12	20	16	4.5	10
SQFDQ-III 14	14	14	22	18	4.5	10
SQFDQ-III 16	16	16	24	20	5.0	10
SQFDQ-III 18	18	18	26	22	5.0	12



MemoPart™ Hubless Membranous Asymmetric VSD Occluder

Model & Specification	Device Size	A Waist Diameter (mm)	B Left Disc Diameter (mm)	C Right Disc Diameter (mm)	H Waist Height (mm)	Smallest Recommended Sheat Size (F)
WTSQFDQ-III 04	04	4	12	8	3.5	7
WTSQFDQ-III 05	05	5	13	9	4.0	8
WTSQFDQ-III 06	06	6	14	10	4.0	8
WTSQFDQ-III 07	07	7	15	11	4.0	8
WTSQFDQ-III 08	08	8	16	12	4.0	9
WTSQFDQ-III 09	09	9	17	13	4.5	9
WTSQFDQ-III 10	10	10	18	14	4.5	9
WTSQFDQ-III 12	12	12	20	16	4.5	10
WTSQFDQ-III 14	14	14	22	18	4.5	10
WTSQFDQ-III 16	16	16	24	20	5.0	10
WTSQFDQ-III 18	18	18	26	22	5.0	12

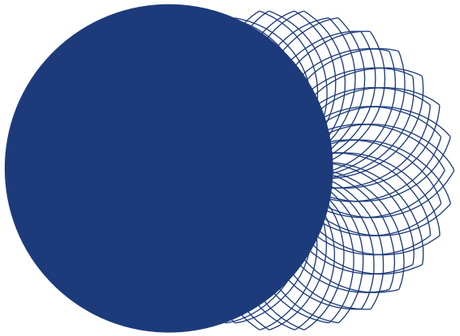


MemoPart™ Zero Rim Eccentric VSD Occluder

Model & Specification	Device Size	A Waist Diameter (mm)	B Left Disc Diameter (mm)	C Right Disc Diameter (mm)	H Waist Height (mm)	Smallest Recommended Sheat Size (F)
SQFDQ-IV 04	04	4	9	8	3.5	6
SQFDQ-IV 05	05	5	10	9	3.5	7
SQFDQ-IV 06	06	6	11	10	4.0	7
SQFDQ-IV 07	07	7	12	11	4.0	8
SQFDQ-IV 08	08	8	13	12	4.5	8
SQFDQ-IV 09	09	9	14	13	5.0	9
SQFDQ-IV 10	10	10	17	15	5.0	9
SQFDQ-IV 12	12	12	20	18	5.0	10
SQFDQ-IV 14	14	14	22	20	5.0	10
SQFDQ-IV 16	16	16	24	22	5.0	10

MemoPart™ Hubless Zero Rim Eccentric VSD Occluder

Model & Specification	Device Size	A Waist Diameter (mm)	B Left Disc Diameter (mm)	C Right Disc Diameter (mm)	H Waist Height (mm)	Smallest Recommended Sheat Size (F)
WTSQFDQ-IV 04	04	4	9	8	3.5	7
WTSQFDQ-IV 05	05	5	10	9	3.5	7
WTSQFDQ-IV 06	06	6	11	10	4.0	7
WTSQFDQ-IV 07	07	7	12	11	4.0	8
WTSQFDQ-IV 08	08	8	13	12	4.5	8
WTSQFDQ-IV 09	09	9	14	13	5.0	9
WTSQFDQ-IV 10	10	10	17	15	5.0	9
WTSQFDQ-IV 12	12	12	20	18	5.0	10
WTSQFDQ-IV 14	14	14	22	20	5.0	10
WTSQFDQ-IV 16	16	16	24	22	5.0	10



MemoPart™

Patent Ductus Arteriosus (PDA) Occluder CE

MemoPart™ PDA Occluder is a percutaneous, transcatheter device applied to the closure of patent ductus arteriosus (PDA). The retention skirt guarantees the secure positioning in the ampulla of the ductus.



Cylinder Shape
PDA Occluder



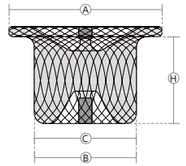
Cone Shape
PDA Occluder



Hubless Cylinder Shape
PDA Occluder

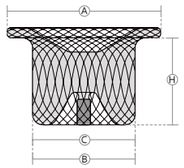


Hubless Cone Shape
PDA Occluder



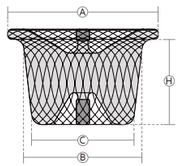
MemoPart™ Cylinder Shape PDA Occluder

Model & Specification	Device Size	A Aortic Disc Diameter (mm)	B Waist Diameter (mm)	C Pulmonic Disc Diameter (mm)	H Waist Height (mm)	Smallest Recommended Sheath Size (F)
WBFDQ-I 04	04	8	4	4	4.0	6
WBFDQ-I 05	05	9	5	5	5.0	6
WBFDQ-I 06	06	10	6	6	6.0	6
WBFDQ-I 07	07	11	7	7	6.5	6
WBFDQ-I 08	08	12	8	8	6.5	6
WBFDQ-I 09	09	13	9	9	7.0	6
WBFDQ-I 10	10	14	10	10	7.5	6
WBFDQ-I 11	11	15	11	11	8.0	7
WBFDQ-I 12	12	16	12	12	8.5	7
WBFDQ-I 13	13	17	13	13	8.5	8
WBFDQ-I 14	14	18	14	14	9.5	8
WBFDQ-I 16	16	21	16	16	10.5	9
WBFDQ-I 18	18	23	18	18	10.5	10
WBFDQ-I 20	20	25	20	20	12.0	12
WBFDQ-I 22	22	27	22	22	12.0	12



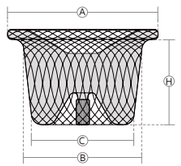
MemoPart™ Hubless Cylinder Shape PDA Occluder

Model & Specification	Device Size	A Aortic Disc Diameter (mm)	B Waist Diameter (mm)	C Pulmonic Disc Diameter (mm)	H Waist Length (mm)	Smallest Recommended Sheath Size
WTWBFDQ-I 04	04	8	4	4	4.0	6
WTWBFDQ-I 05	05	9	5	5	5.0	6
WTWBFDQ-I 06	06	10	6	6	6.0	6
WTWBFDQ-I 07	07	11	7	7	6.5	6
WTWBFDQ-I 08	08	12	8	8	6.5	6
WTWBFDQ-I 09	09	13	9	9	7.0	6
WTWBFDQ-I 10	10	14	10	10	7.5	6
WTWBFDQ-I 11	11	15	11	11	8.0	7
WTWBFDQ-I 12	12	16	12	12	8.5	7
WTWBFDQ-I 13	13	17	13	13	8.5	8
WTWBFDQ-I 14	14	18	14	14	9.5	8
WTWBFDQ-I 16	16	21	16	16	10.5	9
WTWBFDQ-I 18	18	23	18	18	10.5	10
WTWBFDQ-I 20	20	25	20	20	12.0	12
WTWBFDQ-I 22	22	27	22	22	12.0	12



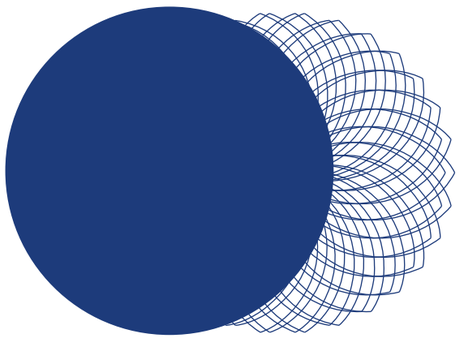
MemoPart™ Cone Shape PDA Occluder

Model & Specification	Device Size	A Aortic Disc Diameter (mm)	B Waist Diameter (mm)	C Pulmonic Disc Diameter (mm)	H Waist Length (mm)	Smallest Recommended Sheath Size
WBFDQ-II 06	0406	10	6	4	6.0	6
WBFDQ-II 08	0608	12	8	6	6.5	6
WBFDQ-II 10	0810	14	10	8	7.5	6
WBFDQ-II 12	1012	16	12	10	8.5	7
WBFDQ-II 14	1214	18	14	12	9.5	8
WBFDQ-II 16	1416	20	16	14	10.5	9
WBFDQ-II 18	1618	23	18	16	10.5	10
WBFDQ-II 20	1820	25	20	18	12.0	12
WBFDQ-II 22	2022	27	22	20	12.0	12



MemoPart™ Hubless Cone Shape PDA Occluder

Model & Specification	Device Size	A Aortic Disc Diameter (mm)	B Waist Diameter (mm)	C Pulmonic Disc Diameter (mm)	H Waist Length (mm)	Smallest Recommended Sheath Size
WTWBFDQ-II 06	0406	10	6	4	6.0	6
WTWBFDQ-II 08	0608	12	8	6	6.5	6
WTWBFDQ-II 10	0810	14	10	8	7.5	6
WTWBFDQ-II 12	1012	16	12	10	8.5	7
WTWBFDQ-II 14	1214	18	14	12	9.5	8
WTWBFDQ-II 16	1416	20	16	14	10.5	9
WTWBFDQ-II 18	1618	23	18	16	10.5	10
WTWBFDQ-II 20	1820	25	20	18	12.0	12
WTWBFDQ-II 22	2022	27	22	20	12.0	12



MemoPart™

Patent Foramen Ovale (PFO) Occluder CE

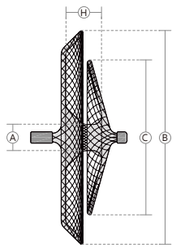
MemoPart™ PFO Occluder is a percutaneous, transcatheter device applied to the closure of patent foramen ovale (PFO) for patients with the history of stroke, or the transient ischemic attacks (TIAs).



PFO Occluder

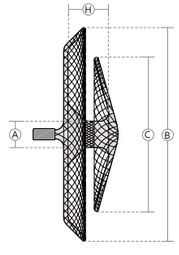


Hubless PFO Occluder



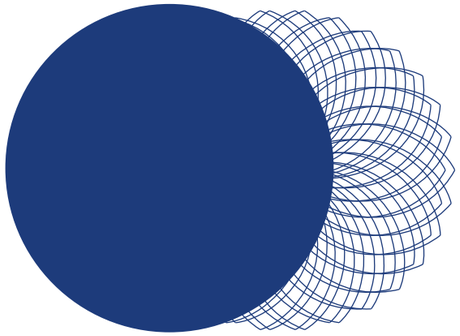
MemoPart™ PFO Occluder

Model & Specification	Device Size	A Waist Diameter (mm)	B Right Disc Diameter (mm)	C Left Disc Diameter (mm)	H Waist Height (mm)	Smallest Recommended Sheath Size (F)
LYKFDQ-I 1818	1818	3.5	18	18	6.0	9
LYKFDQ-I 1824	1824	4.0	24	18	7.0	9
LYKFDQ-I 2424	2424	4.0	24	24	7.0	9
LYKFDQ-I 2228	2228	4.5	28	22	7.0	10
LYKFDQ-I 2828	2828	4.5	28	28	7.0	10
LYKFDQ-I 2534	2534	5.0	34	25	7.0	12
LYKFDQ-I 3434	3434	5.0	34	34	7.0	12



MemoPart™ Hubless PFO Occluder

Model & Specification	Device Size	A Waist Diameter (mm)	B Right Disc Diameter (mm)	C Left Disc Diameter (mm)	H Waist Height (mm)	Smallest Recommended Sheath Size (F)
WTLYKFDQ-I 1818	1818	3.5	18	18	6.0	9
WTLYKFDQ-I 1824	1824	4.0	24	18	7.0	9
WTLYKFDQ-I 2424	2424	4.0	24	24	7.0	9
WTLYKFDQ-I 2228	2228	4.5	28	22	7.0	10
WTLYKFDQ-I 2828	2828	4.5	28	28	7.0	10
WTLYKFDQ-I 2534	2534	5.0	34	25	7.0	12
WTLYKFDQ-I 3434	3434	5.0	34	34	7.0	12



MemoPart™

Plug

MemoPart™ Plug is a percutaneous, transcatheter device applied to the closure of a wide variety of veins and arteries, reducing or eliminating blood flow by blocking the target vessel. The vascular plug can be used for the patients with clinical symptoms of abnormal blood vessels, such as:

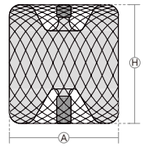
- Aortopulmonary collaterals
- Arteriovenous malformation
- Surgical aortopulmonary shunts
- Anomalous venovenous connections
- Arteriovenous fistulas
- Peripheral vessels



Vascular Plug

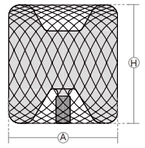


Hubless Vascular Plug



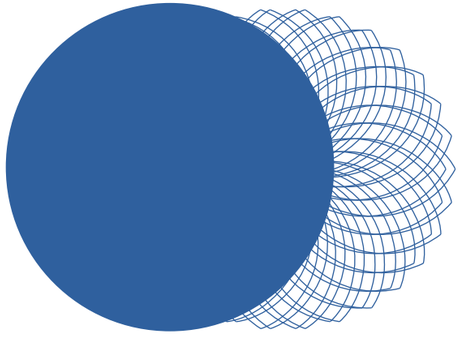
MemoPart™ Plug

Model & Specification	Device Size	A Waist Diameter (mm)	H Waist Height (mm)	Smallest Recommended Sheath Size (F)
XGSFDQ-I 04	04	4	5.0	6
XGSFDQ-I 06	06	6	6.5	6
XGSFDQ-I 08	08	8	7.5	6
XGSFDQ-I 10	10	10	8.5	6
XGSFDQ-I 12	12	12	9.5	7
XGSFDQ-I 14	14	14	10.5	7
XGSFDQ-I 16	16	16	11.0	8
XGSFDQ-I 18	18	18	11.0	9
XGSFDQ-I 20	20	20	12.0	10
XGSFDQ-I 22	22	22	13.0	10



MemoPart™ Hubless Plug

Model & Specification	Device Size	A Waist Diameter (mm)	H Waist Height (mm)	Smallest Recommended Sheath Size (F)
WTXGSFDQ-I 04	04	4	5.0	6
WTXGSFDQ-I 06	06	6	6.5	6
WTXGSFDQ-I 08	08	8	7.5	6
WTXGSFDQ-I 10	10	10	8.5	6
WTXGSFDQ-I 12	12	12	9.5	7
WTXGSFDQ-I 14	14	14	10.5	7
WTXGSFDQ-I 16	16	16	11.0	8
WTXGSFDQ-I 18	18	18	11.0	9
WTXGSFDQ-I 20	20	20	12.0	10
WTXGSFDQ-I 22	22	22	13.0	10

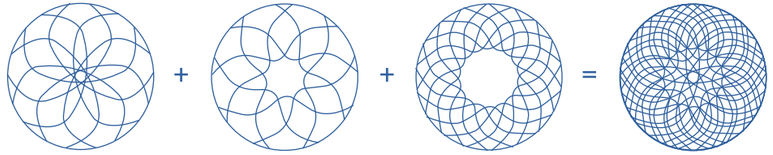


MemoCarna™

Single hub design

- MemoCarna™ ASD device uses a unique datura-shaped braided technique that results in faster endothelialization after release, flatter discs, and less impact on blood flow.

- **Dature-shape braiding technology**
  The combination of a three-layer pattern and two sets of rotations ensures proper disc flexibility and stability of the frame structure.



Decreased metal implantation ——— Easy to release and withdraw ——— More flat disc

- **Decreased metal implantation**
  Compared with traditional hub bundle occluder devices, Dature-shape braiding disks average weigh lighter by 25%, reduce heart burden; Occluder device average height decreases 4mm, especially friendly for pediatrics.
- **Easy to release and withdraw**
  Flower-shape occluder tip makes the occluder softer and safer when push occluder out of delivery system.
- Average force will be dispersed among nitinol wires when withdraw.
- **More flat disc**
  No hub on the left disc, concave design and flat surface, effectively reduce thrombosis and facilitate endothelialization.

↓25%
reduction of average weigh



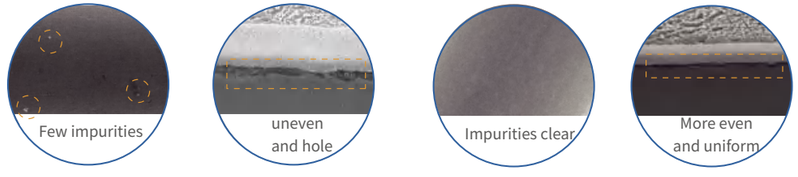


Treatment technique on oxide surface

- MemoCarna™ ASD device adopts advanced surface treatment technology, forming uniform and even oxide layer while removing impurities. Nickle ions release is effectively reduced and delivery performance is enhanced.

- **Material with oxidation surface treatment technology**
  Surface impurity removal, smooth and good biocompatibility

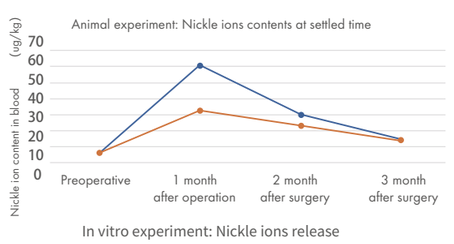
Section SEM image without heat treatment for nitinol wire



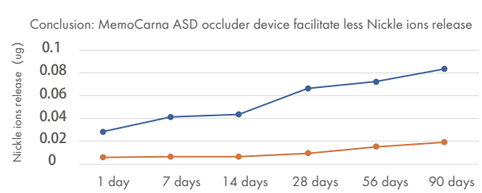
Less Nickle ions release ——————————— Excellent deliverability

Reduced Nickle ions release

Uniform and even oxide film forms on Nitinol wires after heat treatment, Nickle ions release is reduced efficiently.



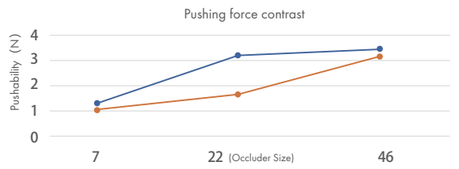
In vitro experiment: Nickle ions release

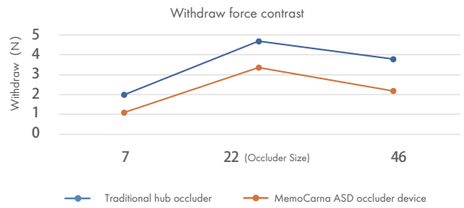


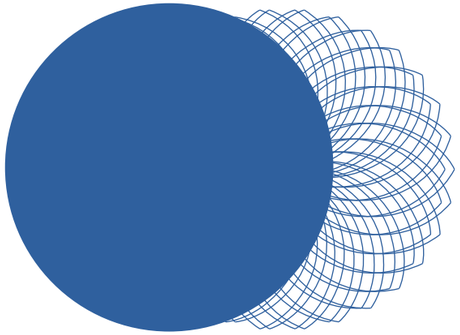
CDRH suggests permitted Nickle ions concentration in stomach is less than 0.5ug/kg/day

Excellent delivery performance

Surface treatment technology helps clear impurities, achieves smooth surface and excellent deliverability. Experiment proves decreased pushability by 25%, and easier withdraw by 39%.







MemoCarna™

Atrial Septal Defect (ASD) Occluder CE

Special flower pattern on the left disc, leaving room for atrial septal puncture in the later stage.

Special pattern on the left disc of the oxide film ASD occluder , the gaps among the disc wires preserve a pathway for future transseptal treatments. Does not affect other percutaneous intervention procedures.

Atrial fibrillation ablation



Left atrial appendage occlusion

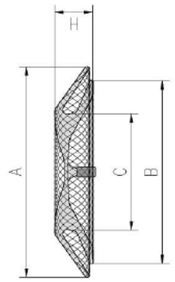


Ensure the original good clamping performance and forming performance.

Oxide film single hub ASD occluder, realizes the special pattern weaving of the left disc to replace the original hub head, while maintaining the original good clamping performance and forming performance, ensuring the stability and safety of the occlusion.

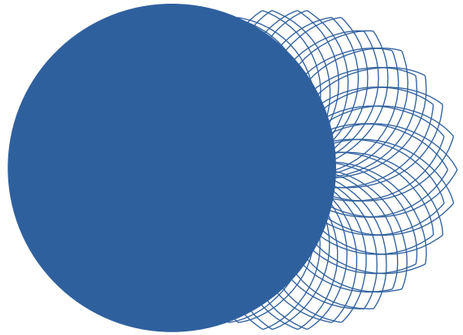






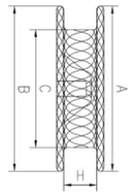
MemoCarna™ ASD Occluder

Model & Specification	Device Size	A Left Disc Diameter (mm)	B Right Disc Diameter (mm)	C Waist Diameter (mm)	H Waist Height (mm)	Smallest Recommended Sheath Size (F)
DMFQFDQ-I04	04	18.0	14.0	4.0	5.5	7
DMFQFDQ-I05	05	19.0	15.0	5.0	5.5	7
DMFQFDQ-I06	06	20.0	16.0	6.0	5.5	7
DMFQFDQ-I07	07	21.0	17.0	7.0	5.5	8
DMFQFDQ-I08	08	22.0	18.0	8.0	5.5	8
DMFQFDQ-I09	09	23.0	19.0	9.0	5.5	8
DMFQFDQ-I10	10	24.0	20.0	10.0	5.5	8
DMFQFDQ-I11	11	25.0	21.0	11.0	5.5	8
DMFQFDQ-I12	12	26.0	22.0	12.0	5.5	8
DMFQFDQ-I13	13	27.0	23.0	13.0	5.5	9
DMFQFDQ-I14	14	28.0	24.0	14.0	5.5	9
DMFQFDQ-I15	15	29.0	25.0	15.0	5.5	9
DMFQFDQ-I16	16	30.0	26.0	16.0	5.5	9
DMFQFDQ-I17	17	31.0	27.0	17.0	5.5	9
DMFQFDQ-I18	18	32.0	28.0	18.0	5.5	9
DMFQFDQ-I19	19	33.0	29.0	19.0	5.5	10
DMFQFDQ-I20	20	34.0	30.0	20.0	5.5	10
DMFQFDQ-I22	22	36.0	32.0	22.0	5.5	10
DMFQFDQ-I24	24	38.0	34.0	24.0	6.0	10
DMFQFDQ-I26	26	40.0	36.0	26.0	6.0	12
DMFQFDQ-I28	28	42.0	38.0	28.0	6.0	12
DMFQFDQ-I30	30	44.0	40.0	30.0	6.0	12
DMFQFDQ-I32	32	46.0	42.0	32.0	6.0	12
DMFQFDQ-I34	34	48.0	44.0	34.0	6.0	14
DMFQFDQ-I36	36	52.0	46.0	36.0	6.0	14
DMFQFDQ-I38	38	54.0	50.0	38.0	6.0	14
DMFQFDQ-I40	40	56.0	52.0	40.0	6.0	14



MemoCarna™

Ventricular Septal Defect (VSD) Occluder CE

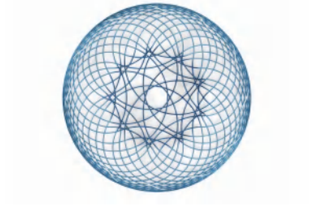


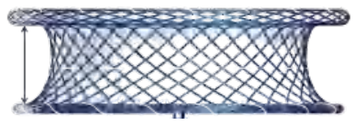
MemoCarna™ VSD Occluder

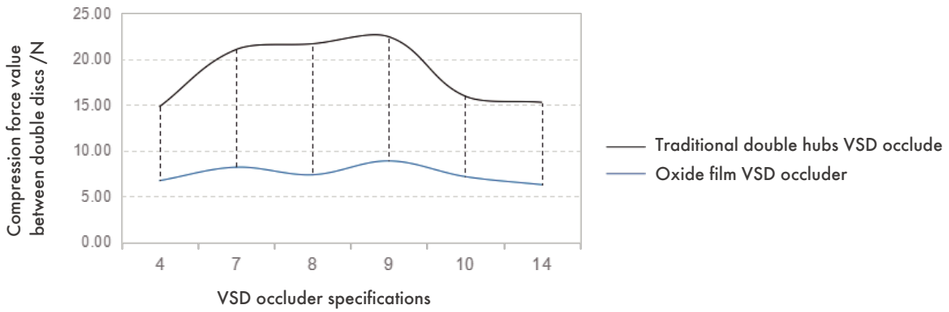
Model & Specification	Device Size	A Left Disc Diameter (mm)	B Right Disc Diameter (mm)	C Waist Diameter (mm)	H Waist Height (mm)	Smallest Recommended Sheath Size (F)
DMSQFDQ-II 04	04	9.0	8.0	4	4	5
DMSQFDQ-II 05	05	10.0	9.0	5	4	5
DMSQFDQ-II 06	06	11.0	10.0	6	4	5
DMSQFDQ-II 07	07	12.0	11.0	7	4	5
DMSQFDQ-II 08	08	13.0	12.0	8	4	5
DMSQFDQ-II 09	09	14.0	13.0	9	5	6
DMSQFDQ-II 10	10	15.0	14.0	10	5	6
DMSQFDQ-II 11	11	16.0	15.0	11	5	6
DMSQFDQ-II 12	12	17.0	16.0	12	5	7
DMSQFDQ-II 13	13	18.0	17.0	13	5	7
DMSQFDQ-II 14	14	19.0	18.0	14	5	7
DMSQFDQ-II 15	15	20.0	19.0	15	5	8
DMSQFDQ-II 16	16	22.0	20.0	16	5	8

The disc surface is softer, reducing the occurrence of atrioventricular block.

The left disc of the oxide film VSD is replaced by a special woven pattern instead of the original hub head, which makes the plate surface softer, reduces the pressure on the ventricular septum, and reduces the probability of atrioventricular block.







MemoCarna™

Patent Ductus Arteriosus (PDA) Occluder

There is no hub on the left disc, which does not affect the aortic blood flow.



After release, the disc surface of the aortic end was smooth without hub protrusion, and the overall height was reduced by 4mm, without affecting the aortic blood flow, accelerating endothelialization and reducing the related complications.

The flow resistance membrane is upgraded, the weaving is more compact, and the effect of immediate blocking of blood flow is better.



180%

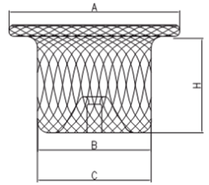
Compared with the original occluder,
the water penetration resistance is improved

The newly upgraded membrane is more densely woven. Tests have shown that its impermeability is about 180% higher than that of the first-generation occluder. It has a better effect of immediate blocking of blood flow and effectively reduces the occurrence of residual shunts.

Improve the delivery performance, can pass through a smaller sheath, more suitable for pediatric patients

The smallest can pass through a sheath with an inner diameter of 1.8 mm

MemoCarna™ Cylinder Shape PDA Occluder



Model & Specification	Device Size	A Aortic Waist Diameter (mm)	B Waist Diameter (mm)	C Pulmonic Disc Diameter (mm)	H Waist Height (mm)	Smallest Recommended Sheath Size (F)
DMWBFDQ-I 04	04	7.0	4.0	4.0	4.5	5
DMWBFDQ-I 05	05	8.0	5.0	5.0	4.5	5
DMWBFDQ-I 06	06	9.0	6.0	6.0	5.0	5
DMWBFDQ-I 07	07	10.0	7.0	7.0	6.0	5
DMWBFDQ-I 08	08	11.0	8.0	8.0	6.0	5
DMWBFDQ-I 09	09	12.0	9.0	9.0	6.5	6
DMWBFDQ-I 10	10	14.0	10.0	10.0	7.0	6
DMWBFDQ-I 11	11	15.0	11.0	11.0	7.5	6
DMWBFDQ-I 12	12	16.0	12.0	12.0	8.0	6
DMWBFDQ-I 13	13	17.0	13.0	13.0	8.5	7
DMWBFDQ-I 14	14	18.0	14.0	14.0	9.0	7
DMWBFDQ-I 16	16	21.0	16.0	16.0	10.0	8
DMWBFDQ-I 18	18	23.0	18.0	18.0	10.5	9
DMWBFDQ-I 20	20	25.0	20.0	20.0	12.0	9
DMWBFDQ-I 22	22	27.0	22.0	22.0	12.5	10

MemoCarna™ Cone Shape PDA Occluder

Model & Specification	Device Size	A Aortic Waist Diameter (mm)	B Waist Diameter (mm)	C Pulmonic Disc Diameter (mm)	H Waist Height (mm)	Smallest Recommended Sheath Size (F)
DMWBFDQ-II 04	04	7.0	4.0	3.0	4.5	5
DMWBFDQ-II 05	05	8.0	5.0	4.0	4.5	5
DMWBFDQ-II 06	06	9.0	6.0	4.0	5.0	5
DMWBFDQ-II 07	07	10.0	7.0	5.0	6.0	5
DMWBFDQ-II 08	08	11.0	8.0	6.0	6.0	5
DMWBFDQ-II 09	09	12.0	9.0	7.0	6.5	6
DMWBFDQ-II 10	10	14.0	10.0	8.0	7.0	6
DMWBFDQ-II 11	11	15.0	11.0	9.0	7.5	6
DMWBFDQ-II 12	12	16.0	12.0	10.0	8.0	6
DMWBFDQ-II 13	13	17.0	13.0	11.0	8.5	7
DMWBFDQ-II 14	14	18.0	14.0	12.0	9.0	7
DMWBFDQ-II 16	16	21.0	16.0	13.0	10.0	8
DMWBFDQ-II 18	18	23.0	18.0	14.0	10.5	9
DMWBFDQ-II 20	20	25.0	20.0	18.0	12.0	9
DMWBFDQ-II 22	22	27.0	22.0	20.0	12.5	10

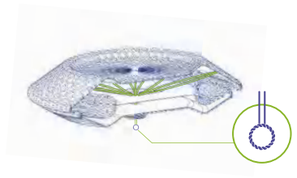
MemoSorb™

Biodegradable Atrial Septal Defect (ASD) Occluder

Patent shaping and locking design, to ensure effective clamping

- Patent parachute design*, to ensure effective clamping

-With mechanical compensation provided to the occluder, to ensure the occluder is clamped stably without dislodgement.

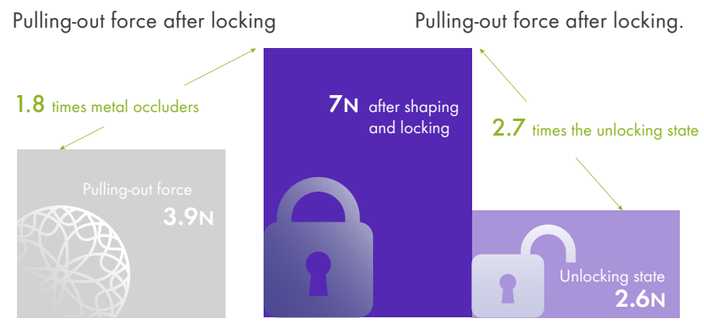


Average pulling-out force/N

- Double disc undercut design, to realize stable undercut

-With the disc support force increased to ensure the disc is attached to the wall tightly and supported stably.

*Patent publication number (grant): CN212326463U



Metal ASD occluder **Degradable ASD occluder**



Material selection and structure design to promote endothelial repair

- Biological high polymer material selected, to facilitate endothelialization due to its excellent biocompatiblity*

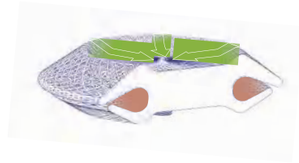
-Compared with nickel alloy, biodegradable PDO material exhibits better biocompatiblity to mitigate inflammatory response remarkably and promote endothelialization.

Li Z, Kong P, Liu X, et al. A fully biodegradable polydioxanone occluder for ventricle septal defect closure[J]. Bioactive Materials, 2023,24:252-262.

- Concave disc, along with the triangle snap-fit design of the wasit, facilitates the cell deposition and tissue filling*

-Concave disc facilitates blood cell deposition and coverage to promote endothelial growth and complete wrappage.

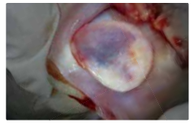
-After the occluder is locked, a closed cavity is formed at the waist to facilitate connective tissue filling and stabilize the occlusion effect.



* According to the traditional view, lifeless biological materials cannot induce histogenesis. Prof. Zhang Xingdong of the National Engineering Research Center for Biomedical Materials, Academician of Chinese Academy of Engineering, discovered in the 1990s that material composition and material structure optimal design (three-dimensional porous structure control, degradation performance control, material surface hardness, topology and micro-pattern, material surface electrical behavior, etc.) can serially activate and regulate the expression of cell-related genes, reshape extracellular matrix, and thus induce the regeneration or formation of living tissues or organs.

Endothelialization: The endothelialization effect of degradable occluders is superior to metal occluders

- Animal experiment gross anatomy-experimental group (biodegradable ASD occluder) and control group (marketed metal occluder)

	1 month after operation	3 months after operation	6 months after operation	12 months after operation
Experimental group Biodegradable ASD occluder				
Control group Marketed metal occluder				

Regeneration & repair, safe degradation



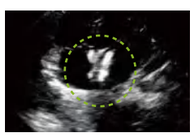
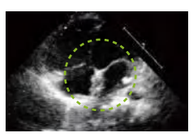
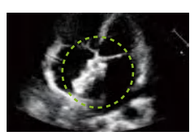
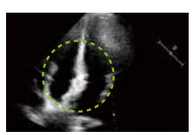
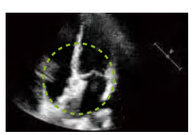
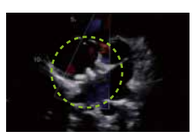
Implantation	After implantation	After implantation	After implantation	After implantation	After implantation
Immediately	1 day	1 month	3 months	6 months	12 months

- With scientific degradation cycle design, to promote biological repair and ensure safe degradation

-The occluder performance matches with the in vivo repair; after stable endothelialization, the degradable occluder is degraded gradually; degrade into water and CO2 within 1 year.
-After occluder degradation, the atrial septum tissue is regenerated and repaired with its tissue elasticity retained, without affecting the atrial septum interventional treatment pathway.

Degradation: The degradable occluder is degraded gradually after stable endothelialization

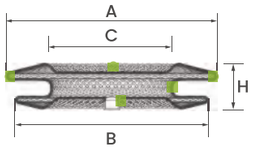
- Ultrasound observation - experimental group (biodegradable ASD occluder) and control group (already marketed metal occluder)

	1 month after operation	3 months after operation	6 months after operation	12 months after operation
Experimental group Biodegradable ASD occluder				
Control group Marketed metal occluder				

Source: clinical trial follow-up observations

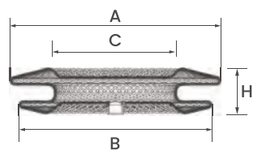
Type I MemoSorb™ ASD Occluder (with 5 platinum markers)

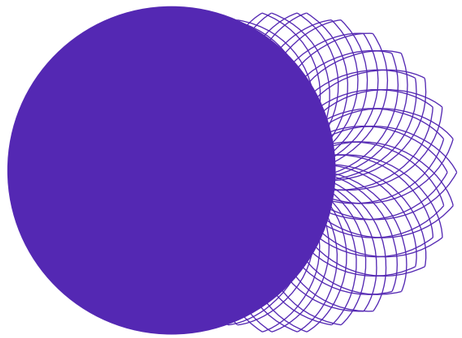
Model & specification	C Waist Diameter (mm)	A Left Disc Diameter (mm)	B Right Disc Diameter (mm)	H Waist Height (mm)	Smallest Recommended Sheath Size (F)
BDASD-I 06	06	16	14	5.5	9
BDASD-I 08	08	18	16	5.5	9
BDASD-I 10	10	20	18	5.5	9
BDASD-I 12	12	26	22	5.5	12
BDASD-I 14	14	28	24	5.5	12
BDASD-I 16	16	30	26	5.5	14
BDASD-I 18	18	32	28	5.5	14
BDASD-I 20	20	34	30	5.5	14
BDASD-I 22	22	36	32	5.5	14
BDASD-I 24	24	38	34	5.5	14
BDASD-I 26	26	40	36	5.5	16
BDASD-I 28	28	42	38	5.5	16
BDASD-I 30	30	44	40	5.5	16
BDASD-I 32	32	46	42	5.5	16



Type II MemoSorb™ ASD Occluder (full degradation design)

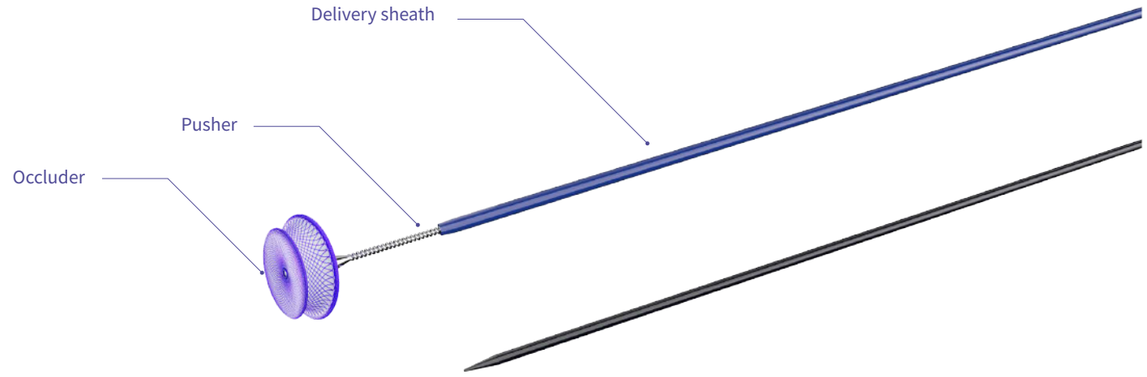
Model & specification	C Waist Diameter (mm)	A Left Disc Diameter (mm)	B Right Disc Diameter (mm)	H Waist Height (mm)	Smallest Recommended Sheath Size (F)
BDASD-II 06	06	16	14	5.5	9
BDASD-II 08	08	18	16	5.5	9
BDASD-II 10	10	20	18	5.5	9
BDASD-II 12	12	26	22	5.5	12
BDASD-II 14	14	28	24	5.5	12
BDASD-II 16	16	30	26	5.5	14
BDASD-II 18	18	32	28	5.5	14
BDASD-II 20	20	34	30	5.5	14
BDASD-II 22	22	36	32	5.5	14
BDASD-II 24	24	38	34	5.5	14
BDASD-II 26	26	40	36	5.5	16
BDASD-II 28	28	42	38	5.5	16
BDASD-II 30	30	44	40	5.5	16
BDASD-II 32	32	46	42	5.5	16





MemoSorb™

Biodegradable Ventricular Septal Defect (VSD) Occluder

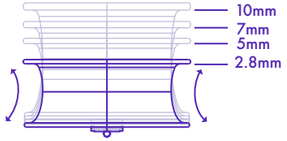


Waist drum structure



Symmetric wide rim + single-hub concave disk

- Firm attachment, preventing fall-off and facilitating endothelial wrapping



Multiple waist heights + waist curves

- Attachment to lesion site and reductions in compression, abrasion and long-term risk

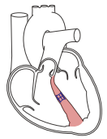
Patented latch fastener for shaping

Patent No.: CN212326463U

Form stability ensured after release and adaptation to myocardial tissue motion



With 40 specifications and models, these fasteners can fully meet the clinical needs

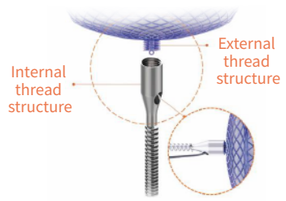


Multi-model design, matching myocardial thickness

4 waist heights: 2.8mm, 5mm, 7mm, and 10mm

10 waist diameters: 4-16mm

Unique design, safe to push





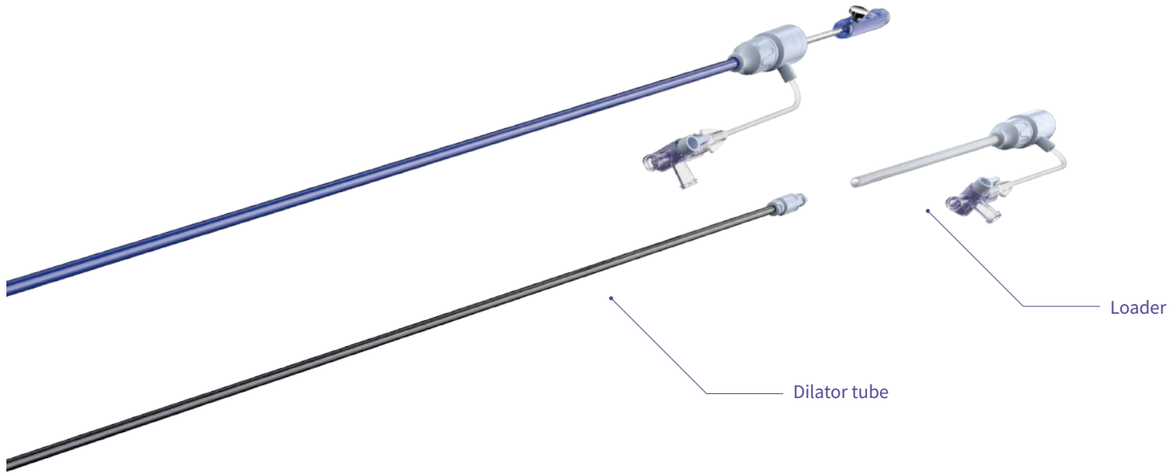
- The internal thread at the head end of the push device is an encircling screw design, which firmly connects the occluder and facilitates delivery and withdrawal.
- The flexible section of the spring at the distal end is designed to adapt to tortuous pathways, while the proximal end is designed with multiple strands of hardening to provide good support.

Side hole design

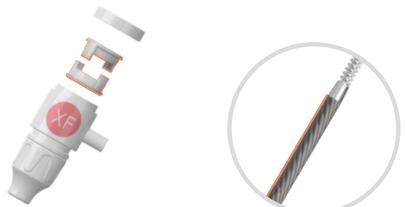
Large cavity with thin walls, visible in and out

- The inner diameter of the sheath is larger, the tube wall is thinner, the delivery performance is better, and it can be adapted to more specifications and models of occluders.
- A metal developing mesh is added to the tube body to visualize the transportation process, and a platinum ring is developed at the head end to facilitate intraoperative positioning.



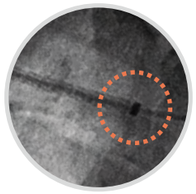


Multiple seals, worry-free transportation



- The double-layer hemostatic valve design provides stronger sealing and reduces intraoperative blood leakage.
- The steel cable coating design reduces the possibility of air locks and ensures transportation safety.



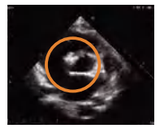


8 models and specifications

Clinical trial results 100% occlusion and autologous tissue reconstruction are achieved through 12-month effective degradation and controlled release



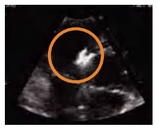
1 month after operation



3 month after operation

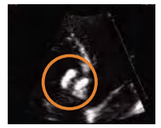


6 month after operation

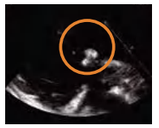


12 month after operation

Under ultrasound - control group
Metal occluder marketed



1 month after operation



3 month after operation



6 month after operation



12 month after operation

Under ultrasound - test group
Biodegradable occluder



1 month after operation



3 month after operation



6 month after operation



12 month after operation

3D simulated degradation process

Experimental results of anima The results of HE staining slices show that the materials are not degraded with white pores (unable to be stained)



1 month after operation



Undegradable (local)



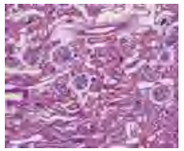
3 month after operation



Undegradable (overall)



6 month after operation



Tissue filling site after degradation (local)



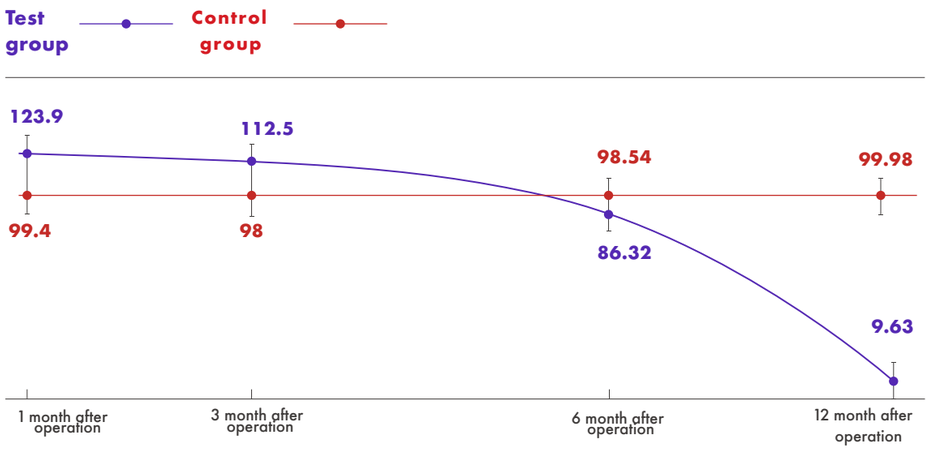
12 month after operation



Tissue filling site after wire degradation (overall)

Biodegradable occluder (test group) and metal occluder (control group)

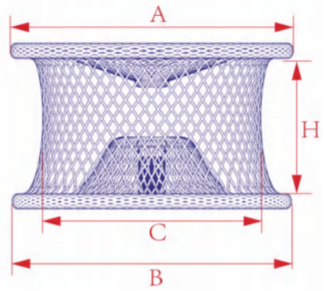
Ultrasonically measure change trend of occluder area (mm2)



- At 1, 3, 6, and 12 months after implantation of the biodegradable occluder, the success rate of occlusion was 100%, respectively, and its curative effect was the same as that of the metal occluder.
- At 1 months and 3 months after operation, ultrasound examination showed that the occluder had clear development without a significant dimension difference. At 6 months after operation, the occluder began to degrade gradually with the area decreased significantly. At 12 months after operation, the occluder was completely degraded and replaced by autologous tissue, and its area was obviously reduced to disappear, and new tissues around the occluder could be observed through ultrasound examination.

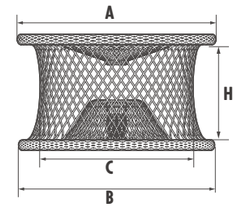
MemoSorb™ Biodegradable VSD Occluder design of effective biodegradation control and release within 12 months - ensure safe biodegradation and achieve permanent occlusion of autologous tissue. The densely-weaved mesh + design of concave single rivet - benefit to endothelialization and reduce the incidence of thrombus. The symmetrical wide edge + patented shaping lock design - ensure adherence, shaping, stability and prevent detachment.





MemoSorb™ VSD Occluder

Model & specification	A Left Disc Diameter (mm)	B Right Disc Diameter (mm)	C Waist Diameter (mm)	H Waist Height (mm)	Smallest Recommended Sheath Size (F)
ABFDQ-I 04	9.0	9.0	4.0	2.8	7
ABFDQ-I 05	10.0	10.0	5.0	2.8	7
ABFDQ-I 06	11.0	11.0	6.0	2.8	7
ABFDQ-I 07	12.0	12.0	7.0	2.8	8
ABFDQ-I 08	13.0	13.0	8.0	2.8	9
ABFDQ-I 09	14.0	14.0	9.0	2.8	10
ABFDQ-I 10	15.0	15.0	10.0	2.8	10
ABFDQ-I 12	18.0	18.0	12.0	2.8	10-12
ABFDQ-I 14	20.0	20.0	14.0	2.8	14-16
ABFDQ-I 16	22.0	22.0	16.0	2.8	14-16
ABFDQ-II 04	9.0	9.0	4.0	5.0	7
ABFDQ-II 05	10.0	10.0	5.0	5.0	7
ABFDQ-II 06	11.0	11.0	6.0	5.0	7
ABFDQ-II 07	12.0	12.0	7.0	5.0	8
ABFDQ-II 08	13.0	13.0	8.0	5.0	9
ABFDQ-II 09	14.0	14.0	9.0	5.0	10
ABFDQ-II 10	15.0	15.0	10.0	5.0	10
ABFDQ-II 12	18.0	18.0	12.0	5.0	10-12
ABFDQ-II 14	20.0	20.0	14.0	5.0	14-16
ABFDQ-II 16	22.0	22.0	16.0	5.0	14-16
ABFDQ-III 04	9.0	9.0	4.0	7.0	7
ABFDQ-III 05	10.0	10.0	5.0	7.0	7
ABFDQ-III 06	11.0	11.0	6.0	7.0	7
ABFDQ-III 07	12.0	12.0	7.0	7.0	8
ABFDQ-III 08	13.0	13.0	8.0	7.0	9
ABFDQ-III 09	14.0	14.0	9.0	7.0	10
ABFDQ-III 10	15.0	15.0	10.0	7.0	10
ABFDQ-III 12	18.0	18.0	12.0	7.0	10-12
ABFDQ-III 14	20.0	20.0	14.0	7.0	14-16
ABFDQ-III 16	22.0	22.0	16.0	7.0	14-16



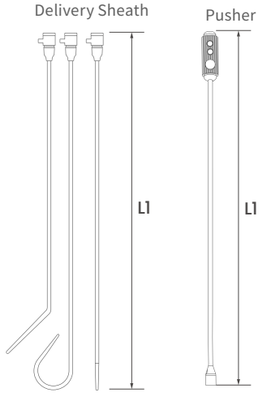
40 models and sizes

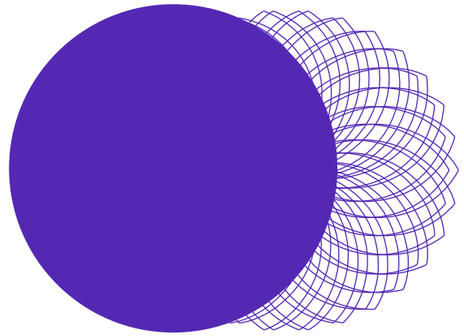
4 waist heights

ABFDQ-IV 04	9.0	9.0	4.0	10.0	7
ABFDQ-IV 05	10.0	10.0	5.0	10.0	7
ABFDQ-IV 06	11.0	11.0	6.0	10.0	7
ABFDQ-IV 07	12.0	12.0	7.0	10.0	8
ABFDQ-IV 08	13.0	13.0	8.0	10.0	9
ABFDQ-IV 09	14.0	14.0	9.0	10.0	10
ABFDQ-IV 10	15.0	15.0	10.0	10.0	10
ABFDQ-IV 12	18.0	18.0	12.0	10.0	10-12
ABFDQ-IV 14	20.0	20.0	14.0	10.0	14-16
ABFDQ-IV 16	22.0	22.0	16.0	10.0	14-16

Model specifications of interventional delivery system for biodegradable occluders (mm)

Model	F/Sheath inner diameter	Top bend angle	L1/Effective length of delivery sheath	Match pusher specifications	L1/Effective length of pusher
II-6F	6F	180°	820	TSQ16L	1200
II-7F	7F	180°	820	TSQ20L	1200
II-8F	8F	180°	820	TSQ25L	1200
II-9F	9F	180°	820	TSQ25L	1200
II-10F	10F	180°	820	TSQ30L	1200
II-12F	12F	180°	820	TSQ35L	1200
II-14F	14F	180°	820	TSQ35L	1200
II-16F	16F	180°	820	TSQ35L	1200
III-6F	6F	0°	140	TSQ16S	600
III-7F	7F	0°	140	TSQ20S	600
III-8F	8F	0°	140	TSQ25S	600
III-9F	9F	0°	140	TSQ25S	600
III-10F	10F	0°	140	TSQ30S	600
III-12F	12F	0°	167	TSQ35S	600
III-14F	14F	0°	167	TSQ35S	600
III-16F	16F	0°	167	TSQ35S	600





MemoSorb™

Biodegradable Patent Foramen Ovale (PFO) Occluder

Multiple closure to reduce shunting

- Concave double buckles stabilize the closure of septum. The disk surface forms an effective closure.

  45° double-disk concave form with reinforced support clips the primum and secundum to form an effective closure.



- Three-layer flow choking instantly prevents blood flow and creates an effective waist occlusion.

  Waist flow barrier membrane is added to fill the interior of the PFO defect and reduce the risk of residual shunting.



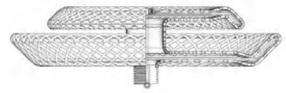
Dual patents guarantee the stable shaping

- Patented edge locking design with shield-shaped disk buckle for stable support.



Disk surface edge locking enhances the mechanical support of the disk surface, without affecting the septum flap movement, to ensure the closure effect.

- Patented riveting design ensures effective clipping and ensures good attachment. (*Patent No. 2020203199179)

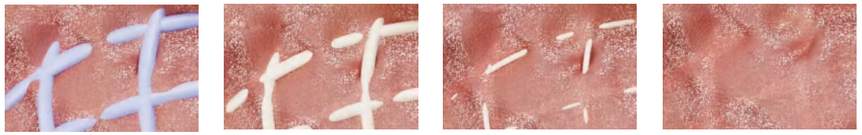


Forming lock design ensures that the occluder is structurally stable after release, compliant to the structural movement of heart, without detachment.

No remains after degradation, No obstruction for puncture

The occluder degrades safely in about one year, and guides bioremediation of autologous tissues.

3D Simulation of Degradation Process Tissue Interior

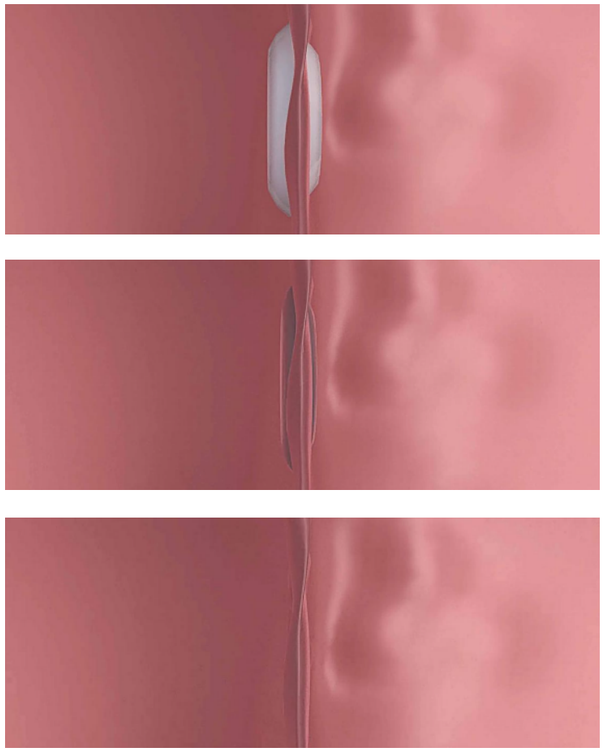


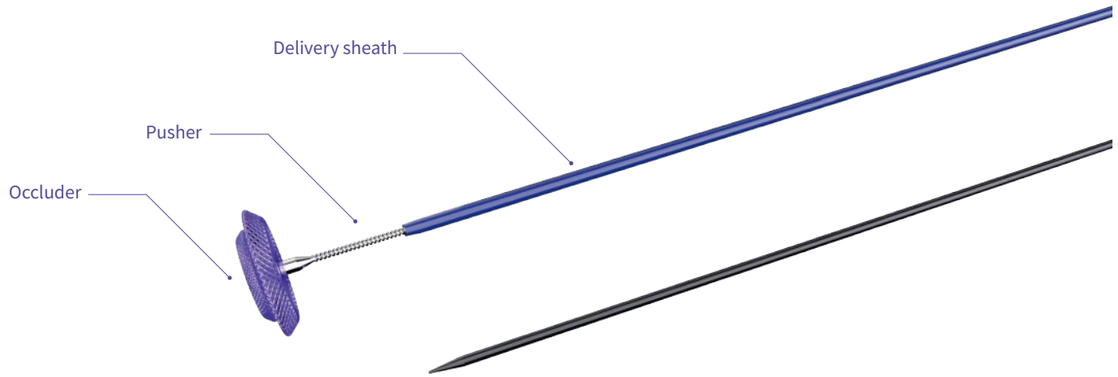
1M after operation | 3M after operation | 6M after operation | 12M after operation

- Its degradation rate matches the tissue repair cycle and it gradually degrades after endothelialization is stabilized, achieving effective closure and autologous tissue repair.

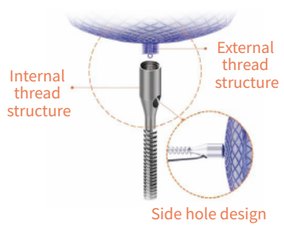
Reshaping the structure of the fossa ovalis in the atrial septum and preserving access to interventional therapies.

- Atrial septal reconstruction is complete after degradation, preserving tissue elasticity and not interfering with the transatrial septal intervention path.





Unique design, safe to push





- The internal thread at the head end of the push device is an encircling screw design, which firmly connects the occluder and facilitates delivery and withdrawal.

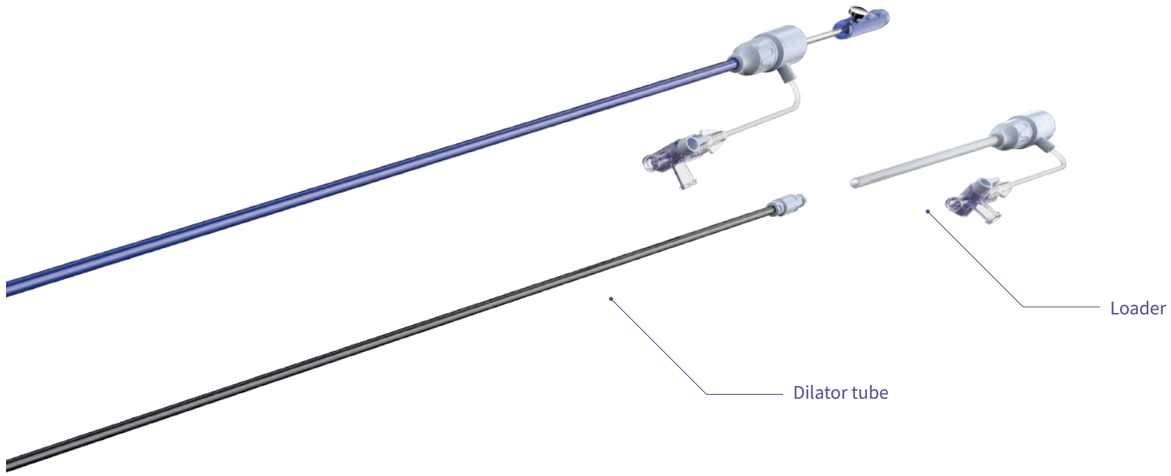
- The flexible section of the spring at the distal end is designed to adapt to tortuous pathways, while the proximal end is designed with multiple strands of hardening to provide good support.

Large cavity with thin walls, visible in and out

- The inner diameter of the sheath is larger, the tube wall is thinner, the delivery performance is better, and it can be adapted to more specifications and models of occluders.

- A metal developing mesh is added to the tube body to visualize the transportation process, and a platinum ring is developed at the head end to facilitate intraoperative positioning.





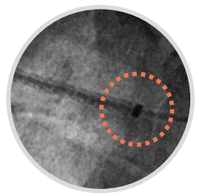
Multiple seals, worry-free transportation





- The double-layer hemostatic valve design provides stronger sealing and reduces intraoperative blood leakage.
- The steel cable coating design reduces the possibility of air locks and ensures transportation safety.





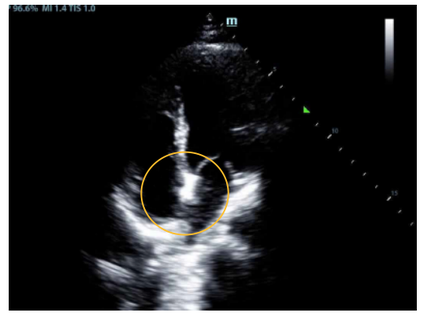
8 models
and specifications

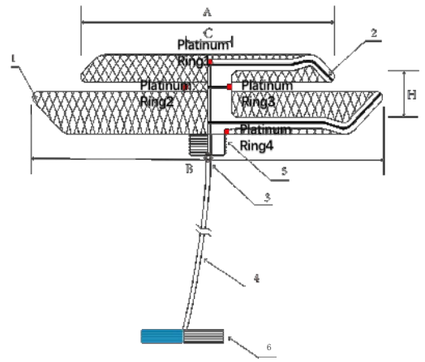
Marker design + ultrasound guidance: solving visual operation problems

- There are 4 Makers visible under DSA to assist in judging the launch status of the occluder disk.
- The complete shape of the occluder can be seen under ultrasound, and the position of the occluder can be determined through comprehensive evaluation.

Platinum Ring1	Platinum Ring2	Platinum Ring3	Platinum Ring4
Center of left disk	Left side of waist of occluder	Right side of waist of occluder	Center right of the right diskRight side of tail weld ball





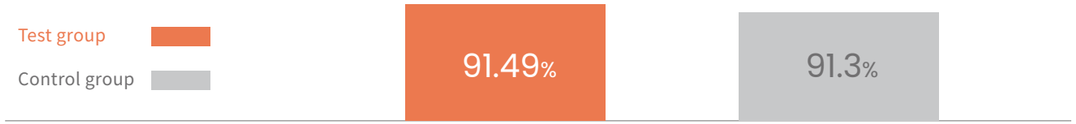


Clinical trial results

◉ Effective sealing, the sealing effect is not inferior to that of metal sealing devices.

Biodegradable PFO occluder (test group) Metal occluders already on the market (control group)

Occlusion success rate（6 months after surgery）

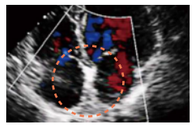
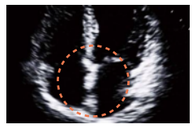
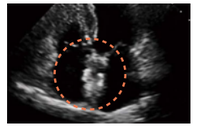
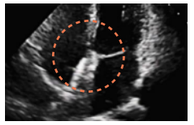
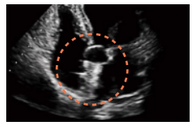
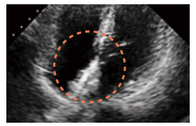


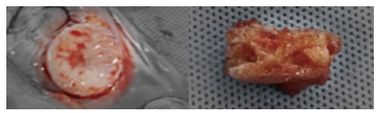
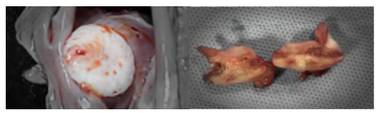
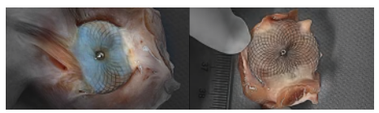
Successful sealing: The contrast-enhanced ultrasound results 6 months after the operation show that there is no RLS or only a small amount of RLS, that is, the RLS grade is 0 or 1 (otherwise the sealing fails).

◉ Safe degradation, gradual degradation after endothelialization and stabilization

Biodegradable PFO occluder (test group)
Metal occluders already on the market (control group)

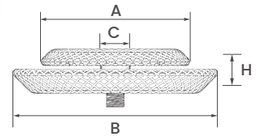
Occlusion success rate（6 months after surgery）

	1M after operation	3M after operation	6M after operation	12M after operation
Ultrasound observation-Test group Biodegradable PFO occluder				
Ultrasound observation-Control group Metal occluders already on the market				

	1M after operation	3M after operation
Postoperative endothelialization-Test group Metal occluders already on the market		
Postoperative endothelialization-Control group Metal occluders already on the market		

MemoSorb™ PFO Occluder

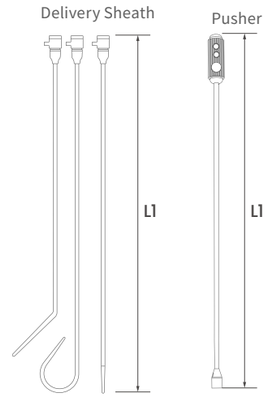
Model & Specification	A Left Disc Diameter (mm)	B Right Disc Diameter (mm)	C Waist Diameter (mm)	H Waist Height (mm)	Smallest Recommended Sheath Size (F)
BDPFO-I 1818	18	18	4	3	10
BDPFO-I 2424	24	24	4	4	12
BDPFO-I 2828	28	28	4.5	4	14
BDPFO-I 3434	34	34	5	5	16
BDPFO-I 1218	12	18	4	3	10
BDPFO-I 1824	18	24	4	4	12
BDPFO-I 2228	22	28	4.5	4	14
BDPFO-I 2534	25	34	5	5	16

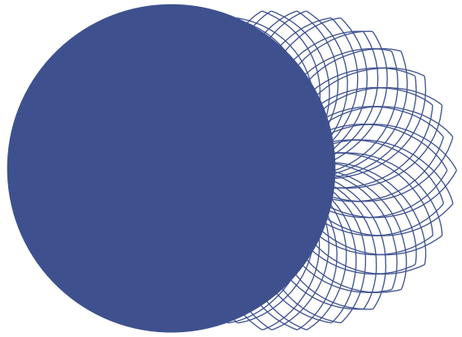


For MemoSorb biodegradable PFO occluder, we recommend symmetrical type.

Model specifications of interventional delivery system for biodegradable occluders (mm)

Model	F/Sheath inner diameter	Top bend angle	L1/Effective length of delivery sheath	Match pusher specifications	L1/Effective length of pusher
I-6F	6F	45°	820	TSQ16L	1200
I-7F	7F	45°	820	TSQ20L	1200
I-8F	8F	45°	820	TSQ25L	1200
I-9F	9F	45°	820	TSQ25L	1200
I-10F	10F	45°	820	TSQ30L	1200
I-12F	12F	45°	820	TSQ35L	1200
I-14F	14F	45°	820	TSQ35L	1200
I-16F	16F	45°	820	TSQ35L	1200





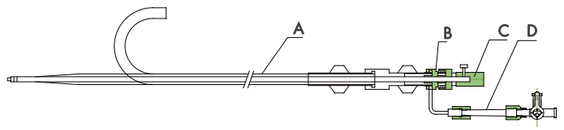
MemoPart™

Occluder Delivery System I CE

- Two different lengths of the sheath for adults and children.
- Anti-kink delivery system is also available for VSD occluders.

The delivery system includes:

Loader (1)
Long Sheath (1)
Dilator (1)
Pusher (1)
Y-connector with tubing (1)



A: Long Sheath B: Dilator C: Pusher D: Y-connector with tubing

MemoPart™ Delivery System for Adult ASDO and PFOO

Catalogue No.	Loader		Long Sheath			Dilator	Pusher	
	ID (mm)	Effective Length (mm)	ID (mm)	Effective Length (mm)	Angle	Effective Length (mm)	Effective Length (mm)	Diameter (mm)
ODS-A-I-5F*	5F/1.85	130	5F/1.85	800	45°	920	1200	1.4
ODS-A-I-6F*	6F/2.0	130	6F/2.0	800	45°	920	1200	1.6
ODS-A-I-7F	7F/2.33	130	7F/2.33	800	45°	920	1200	1.8
ODS-A-I-8F	8F/2.67	130	8F/2.67	800	45°	920	1200	1.8
ODS-A-I-9F	9F/3.0	130	9F/3.0	800	45°	920	1200	1.8
ODS-A-I-10F	10F/3.33	130	10F/3.33	800	45°	920	1200	1.9
ODS-A-I-12F	12F/4.0	160	12F/4.0	800	45°	920	1200	2.0
ODS-A-I-14F	14F/4.67	160	14F/4.67	800	45°	920	1200	2.0

*Please contact the sales for detailed information before placing the order.

MemoPart™ Delivery System for Adult VSDO, PDAO and Plug

Catalogue No.	Loader		Long Sheath			Dilator	Pusher	
	ID (mm)	Effective Length (mm)	ID (mm)	Effective Length (mm)	Angle	Effective Length (mm)	Effective Length (mm)	Diameter (mm)
ODS-P/V-II-5F	5F/1.85	130	5F/1.85	800	180°	920	1200	1.4
ODS-P/V-II-6F	6F/2.0	130	6F/2.0	800	180°	920	1200	1.6
ODS-P/V-II-7F	7F/2.33	130	7F/2.33	800	180°	920	1200	1.8
ODS-P/V-II-8F	8F/2.67	130	8F/2.67	800	180°	920	1200	1.8
ODS-P/V-II-9F	9F/3.0	130	9F/3.0	800	180°	920	1200	1.8
ODS-P/V-II-10F	10F/3.33	130	10F/3.33	800	180°	920	1200	1.9
ODS-P/V-II-12F	12F/4.0	160	12F/4.0	800	180°	920	1200	2.0
ODS-P/V-II-14F	14F/4.67	160	14F/4.67	800	180°	920	1200	2.0

MemoPart™ Delivery System for Children ASDO and PFOO

Catalogue No.	Loader		Long Sheath			Dilator	Pusher	
	ID (mm)	Effective Length (mm)	ID (mm)	Effective Length (mm)	Angle	Effective Length (mm)	Effective Length (mm)	Diameter (mm)
ODS-A-III-5F*	5F/1.85	130	5F/1.85	600	45°	680	1200	1.4
ODS-A-III-6F*	6F/2.0	130	6F/2.0	600	45°	680	1200	1.6
ODS-A-III-7F	7F/2.33	130	7F/2.33	600	45°	680	1200	1.8
ODS-A-III-8F	8F/2.67	130	8F/2.67	600	45°	680	1200	1.8
ODS-A-III-9F	9F/3.0	130	9F/3.0	600	45°	680	1200	1.8
ODS-A-III-10F	10F/3.33	130	10F/3.33	600	45°	680	1200	1.9
ODS-A-III-12F	12F/4.0	160	12F/4.0	600	45°	680	1200	2.0
ODS-A-III-14F	14F/4.67	160	14F/4.67	600	45°	680	1200	2.0

*Please contact the sales for detailed information before placing the order.

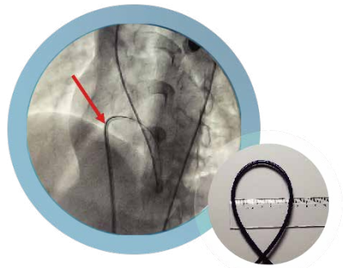
MemoPart™ Delivery System for Children VSDO, PDAO and Plug

Catalogue No.	Loader		Long Sheath			Dilator	Pusher	
	ID (mm)	Effective Length (mm)	ID (mm)	Effective Length (mm)	Angle	Effective Length (mm)	Effective Length (mm)	Diameter (mm)
ODS-P/V-IV-5F	5F/1.85	130	5F/1.85	600	180°	680	1200	1.4
ODS-P/V-IV-6F	6F/2.0	130	6F/2.0	600	180°	680	1200	1.6
ODS-P/V-IV-7F	7F/2.33	130	7F/2.33	600	180°	680	1200	1.8
ODS-P/V-IV-8F	8F/2.67	130	8F/2.67	600	180°	680	1200	1.8
ODS-P/V-IV-9F	9F/3.0	130	9F/3.0	600	180°	680	1200	1.8
ODS-P/V-IV-10F	10F/3.33	130	10F/3.33	600	180°	680	1200	1.9
ODS-P/V-IV-12F	12F/4.0	160	12F/4.0	600	180°	680	1200	2.0
ODS-P/V-IV-14F	14F/4.67	160	14F/4.67	600	180°	680	1200	2.0

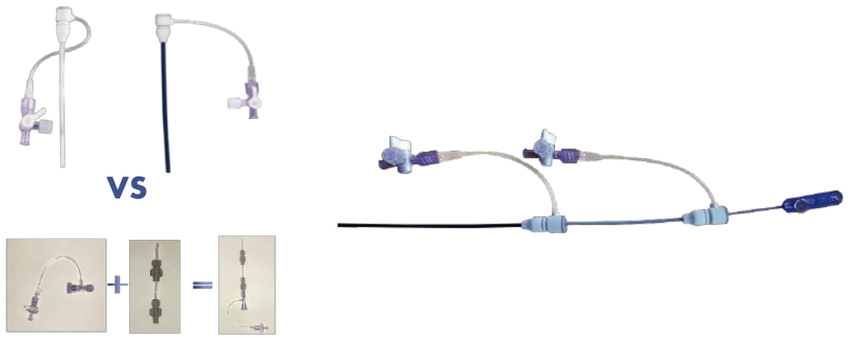
MemoPart™

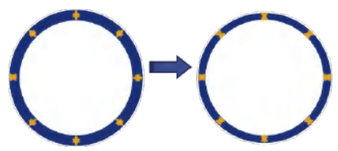
Occluder Delivery System II CE

- Three-layer composite catheter increases sheath bending resistance and suitable for tortuous paths.
- Stainless steel woven wire to increase visibility of the catheter.



- Integrated hemostatic valve design: More convenient operation.
- Additional hemostatic valve at the delivery sheath to reduce intraoperative blood leakage.





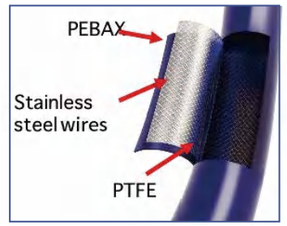
- Larger inner diameter, thinner wall, better conveying performance.

Delivery System II for ASD and PFO Occluders



Delivery System II for ASD and PFO Occluders

Catalogue No.	Loader		Long sheath			Dilator
	I.D. (mm)	Effective Length (mm)	I.D. (mm)	Effective Length (mm)	Angle	Effective Length (mm)
ASD-6F	2.05	100	2.16	850±40	45°	900±40
ASD-7F	2.38	100	2.49	850±40	45°	900±40
ASD-8F	2.70	100	2.84	850±40	45°	900±40
ASD-9F	3.02	100	3.18	850±40	45°	900±40
ASD-10F	3.35	130	3.48	850±40	45°	900±40
ASD-12F	4.04	130	4.18	850±40	45°	900±40
ASD-14F	4.70	160	4.84	850±40	45°	900±40



Delivery System II for VSD,PDA and Plug Occluders



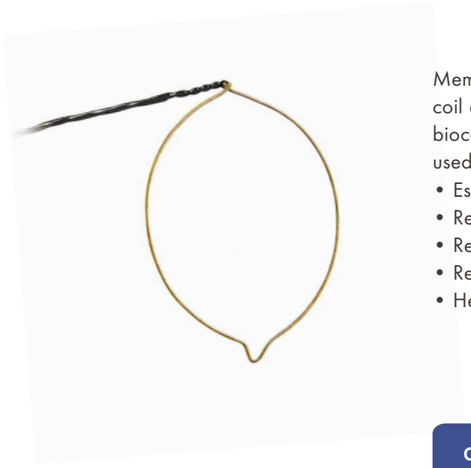
Delivery System II for VSD,PDA and Plug Occluders

Catalogue No.	Loader		Long sheath			Dilator
	I.D. (mm)	Effective Length (mm)	I.D. (mm)	Effective Length (mm)	Angle	Effective Length (mm)
P/V-6F	2.05	100	2.16	850±40	180°	900±40
P/V-7F	2.38	100	2.49	850±40	180°	900±40
P/V-8F	2.70	100	2.84	850±40	180°	900±40
P/V-9F	3.02	100	3.18	850±40	180°	900±40
P/V-10F	3.35	130	3.48	850±40	180°	900±40
P/V-12F	4.04	130	4.18	850±40	180°	900±40
P/V-14F	4.70	160	4.84	850±40	180°	900±40



MemoPart™

Snare CE



MemoPart™ Snare is composed by Nitinol coated Tungsten coil and the Nitinol shaft, which provides great radiopacity, biocompatibility and shape memory ability. This is a widely used device to:

- Establish the femoral artery-vein loop
- Retrieve the dislocated occluder
- Retrieve stent or guide wire
- Retrieve the blood filter
- Help with control navigation, etc.

Catalogue No.	Effective Length (mm)	Diameter of Snare Circle (mm)	Angle
Snare-15	1240	15	90°
Snare-20	1240	20	90°

ExtraSnare™

Endovascular Snare System



Feature:

- Nitinol & Platinum Tungsten Loops
- Single and multi-loop Designs
- PTFE wrapped inner rod
- Torque handle design
- Controllable
- Multi-purpose.
- Capture.
- Success

Controllable design

The number of snare rings is controllable, the single-ring mode can easily pass through narrow blood vessels, and the multi-ring mode improves the success rate of foreign body capture.



Nitinol & Platinum Tungsten Loops

The snare loops are made of platinum-tungsten alloy wire and nickel-titanium alloy wire, which has shape memory, fatigue resistance and development performance.



Inner rod wrapped in PTFE

The nickel-titanium alloy inner rod is wrapped with a PTFE outer layer, and the distal collar rotates flexibly with the torque handle, providing good passability and torsion control.



Product Specification

*i.e. blood vessel diameter

DHQTQ-006-004	1250±60	6.0±2.0	4.0±2.0	6-10	6F
DHQTQ-008-006	1250±60	8.0±2.0	6.0±2.0	8-12	6F
DHQTQ-012-010	1250±60	12.0±3.0	10.0±2.0	13-17	6F
DHQTQ-016-015	1250±60	16.0±40	15.0±5.0	17-23	6F
DHQTQ-024-020	1250±60	24.0±6.0	20.0±5.0	27-33	7F
DHQTQ-033-022	1250±60	33.0±9.0	22.0±5.0	42-48	7F

