

MAGNETIC FLUID

- for Gas & Dust sealing

SPECIFICATION

● For Corrosive gas

Item	Base Oil	Saturation Magnetization	Viscosity	Vapor Pressure	Torr	Continuous operating Max.Temp.	Non-continuous operating Max.Temp.	Operating Min.Temp.	Pour point
Model		Gauss	mPa.sec at 20°C (★: 27°C)	Pa. at 20°C	mmHg	°C	°C	°C	°C
MFF-N50	Perfluoro Polyether	500	4,300	1×10^{-11}	7.5×10^{-14}	120	150	-30	-35
MFF-N45		450	3,500	1×10^{-11}	7.5×10^{-14}	120	150	-30	-35
MFF-03		550	★6,200	2×10^{-9}	1.5×10^{-11}	100	170	0	-5
MFF-02		400	★2,800	2×10^{-9}	1.5×10^{-11}	100	170	0	-5

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For Non-Corrosive gas

Item	Saturation Magnetization	Viscosity	Vapor Pressure	Torr	Continuous operating Max.Temp.	Non-continuous operating Max.Temp.	Operating Min.Temp.	Pour point
Model	Gauss	mPa.sec at 20°C (★: 27°C)	Pa. at 20°C	mmHg at 20°C	°C	°C	°C	°C
MFS-HT1	380	2,000	1X10 ⁻¹¹	7.5 X 10 ⁻¹⁴	180	250	-60	-80
MFS-630	600	3,000	1X10 ⁻⁷	7.5 X 10 ⁻¹⁰	170	200	-30	-40
MFS-552	550	2,000	1X10 ⁻⁷	7.5 X 10 ⁻¹⁰	170	200	-30	-40
MFS-514	500	1,400	1X10 ⁻⁷	7.5 X 10 ⁻¹⁰	170	200	-30	-40
MFS-407	400	600	1X10 ⁻⁷	7.5 X 10 ⁻¹⁰	170	200	-30	-40
MFH-503	500	300	1X10 ⁻⁵	7.6 X 10 ⁻⁸	120	150	-20	-30
MFH-380	300	★8,000	1.3 X 10 ⁻⁸	1X10 ⁻¹⁰	120	150	-10	-18
MFH-340	300	★4,000	1.3 X 10 ⁻⁸	1X10 ⁻¹⁰	120	150	-10	-18
MFH-320	300	★2,000	1.3 X 10 ⁻⁸	1X10 ⁻¹⁰	120	150	-10	-18
MFA-10	850	★2,900	4X10 ⁻⁸	3X10 ⁻¹⁰	80	(Flashing point 235°C)	0	-10
MFA-08	780	★800	4X10 ⁻⁸	3X10 ⁻¹⁰	80	(Flashing point 235°C)	0	-10
MFA-06	580	★300	4X10 ⁻⁸	3X10 ⁻¹⁰	80	(Flashing point 235°C)	0	-10

Grease type (Not Liquid) For Non-Corrosive gas

MFG-50	500		1X10 ⁻¹⁰	7.5 X 10 ⁻¹³	100	120	-70	-90
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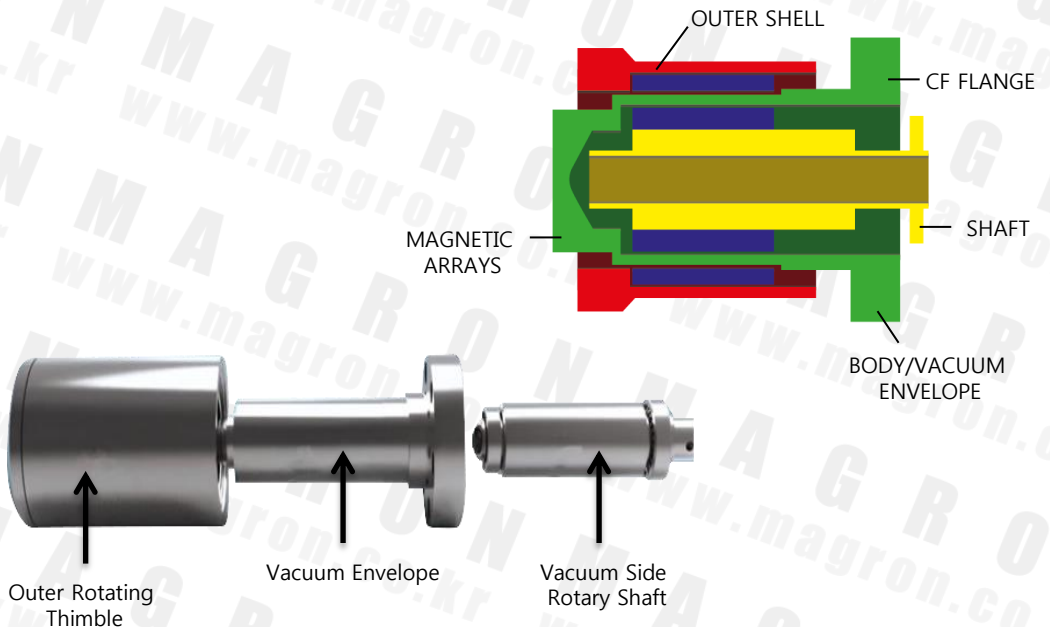


Ferrofluid seal

Ferro-fluid seal : It is the no friction Sealing material that magnetic fluid injected into the gap between the magnet and the rotating shaft forms a type of "Liquid O-Ring" by magnetic field formed by the magnet and the pole piece. No friction, enhances facility durability and prevents harmful gas and dust from being subjected to ultra high vacuum conditions.

Used for Ion Implant Systems , CVD, Organic EL, Sputter, Ion implanters, X-ray generators, Wafer transfer robot, LCD conveying agitator, Plasma Etching Systems, Optical accelerator, HID Lamp, Automobile HID Lamp Manufacturing Process, CD RW and so on.
Main customers : Rigaku , Samsung, LG, SKhynix , etc.

Feedthrough Parts diagram

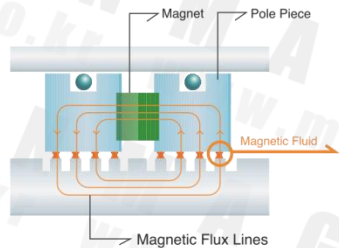
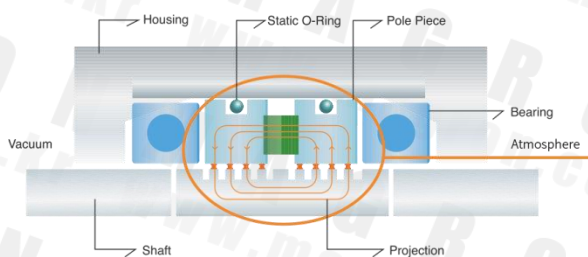
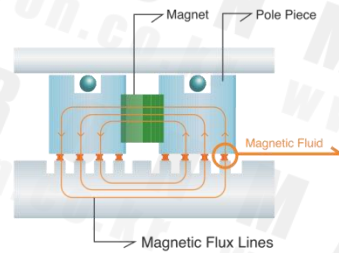
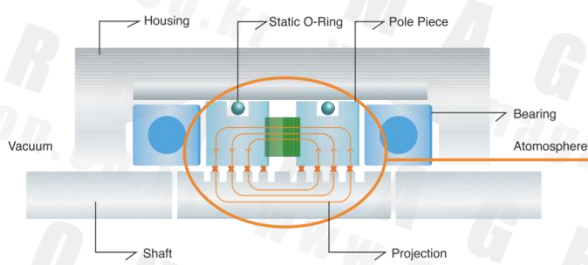
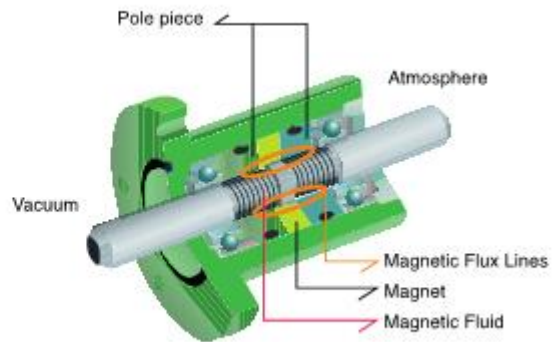
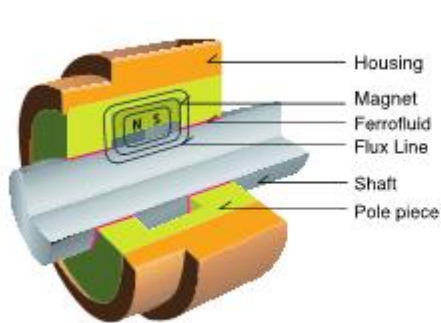


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● Feedthrough Exploded view and how it works

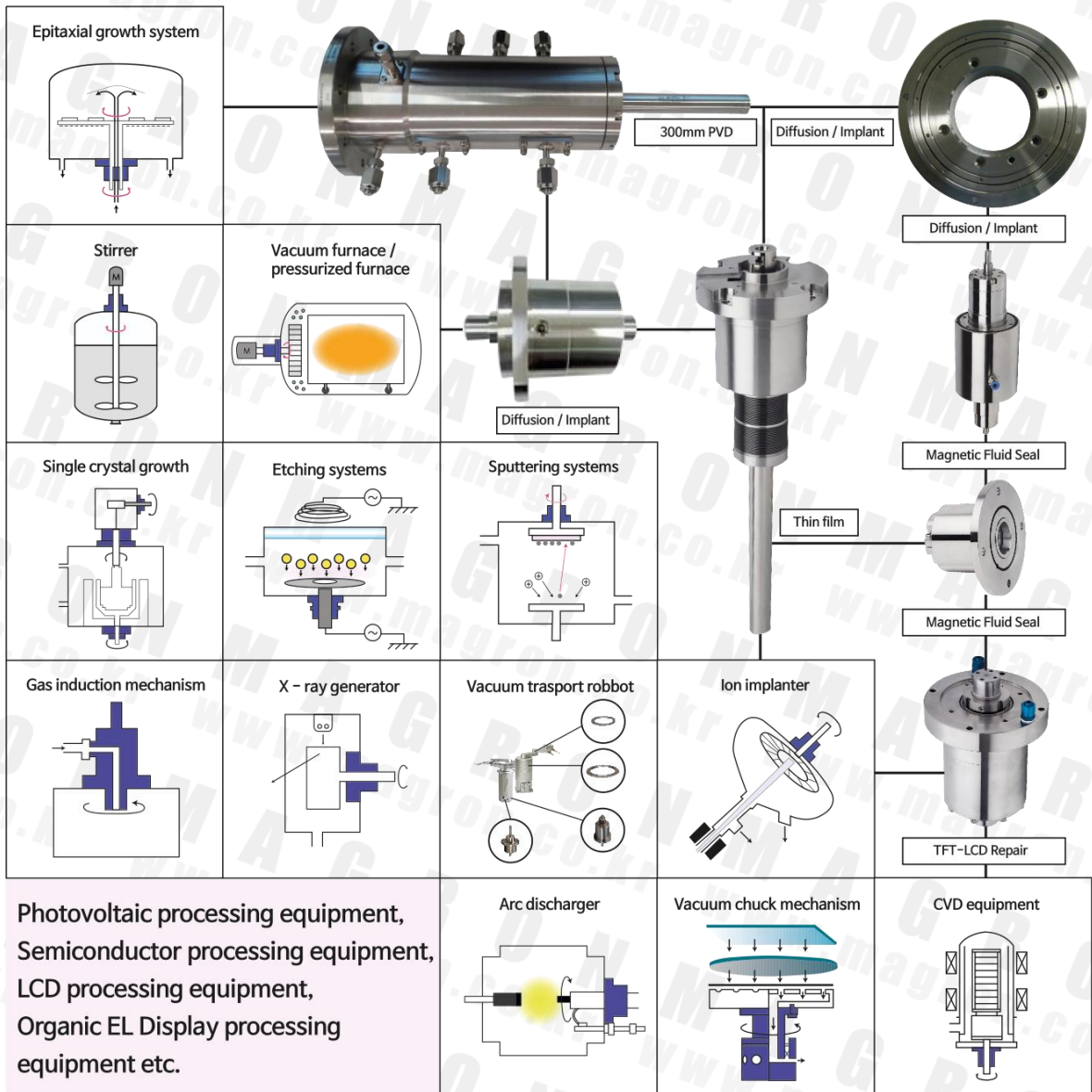


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● Feedthrough and equipment where ferrofluids are used



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Customization is possible.

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new products.

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You can see the map by visiting the
website.