

NMI

Magnet Strainer

Type : SMS

Instruction Manual

Nippon Magnetics, Inc.

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NMI

1. Introduction

Thank you for purchasing our magnet strainer. Before using your magnet strainer, read this instruction manual to ensure safe, proper use.

2. Precautions

Warnings

1) Caution Regarding Magnetic Fields

- Magnetic cards, medical devices, electronic appliances, and precision equipment must be kept away from the magnet. The magnet may destroy data or cause malfunctions.
- The magnet creates a strong magnetic attraction. Caution should be taken when handling the bar magnet, which may cause your fingers to get pinched or caught, leading to an injury.

2) Caution Regarding Blow-off

- When treatment liquid is flowing, do not loosen the fastening hardware for the lid in order to prevent possible injury from the lid accidentally coming off. In addition, the fluid may splash into your eyes or mouth. If this should happen, seek immediate medical attention.

Cautions

1) Vibration and Impact

The permanent magnet contained in the bar magnet is very vulnerable. Vibration and/or impact may chip or damage the magnet, leading to demagnetization.

2) Disassembly

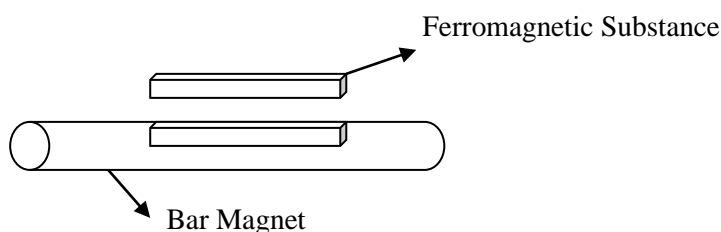
The bar magnetic contains a special magnetic circuit. Do not disassemble the magnet. If disassembled, the magnet may never recover its original magnetic force.

3) Use Environment

The magnet should be used in a neutral environment where possible. The UB- and SB-type magnets are vulnerable to corrosion if used in an acid environment. If the inside is exposed through pinholes or cracks caused by corrosion and/or abrasion of the outer pipe, the magnet becomes damaged and demagnetized.

4) Repeated Contact with Ferromagnetic Substances

To prevent the magnet from becoming demagnetized, do not repeatedly stick a steel sheet or any other ferromagnetic substance on the surface of the magnet.



5) Effect of Alternating Magnetic Fields

The bar magnet, if placed in an alternating field, becomes demagnetized. Do not place it in a magnetizer or demagnetizer.

6) Effect of Temperatures and Pressures

The magnet, if used beyond the operating temperature limits, does not recover its original magnetic force. It must be used within the specified temperature range.

3. Specifications

Type	Connection Size	Bar Magnet Size/Number	Weight(kg)	Remarks
SMS-1	1S	$\phi 25(\phi 24.2) \times 115L / 5$	6	
SMS-1.5	1.5S		6	
SMS-2	2S		6	
SMS-2	2S	$\phi 25(\phi 24.2) \times 145L / 7$	10	
SMS-2.5	2.5S	$\phi 25(\phi 24.2) \times 155L / 7$	10	
SMS-3	3S		10	
SMS-3.5	3.5S		11	

Upper Limit of Operating Pressure : 7MPa(7kgf/cm²)

Upper Limit of Operating Temperatures : UUBType(1.4TESLA) ...100°C

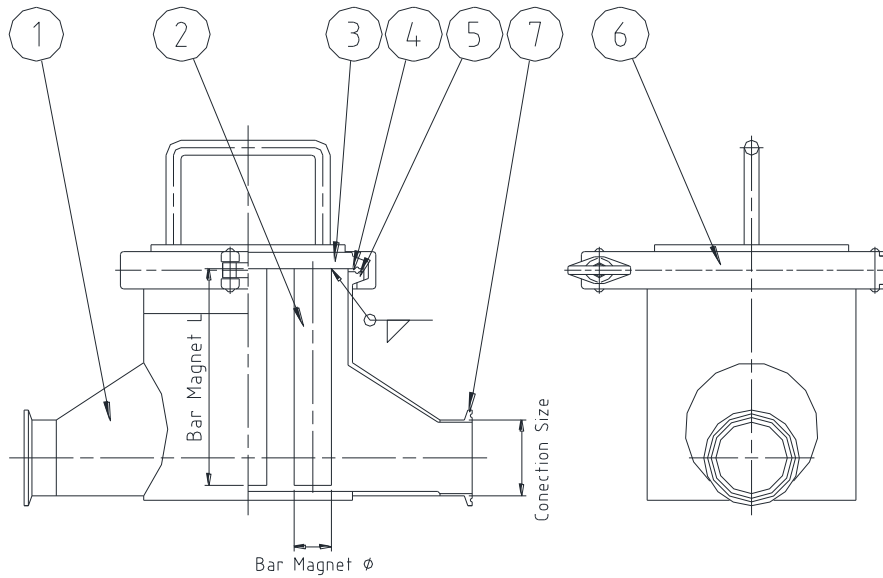
UB Type (1.2TESLA) ...100°C

SB Type (1.0TESLA) ...80°C

HB Type (1.0TESLA) ...200°C

FB Type (0.3TESLA) ...100°C

4. Components



7	W-Ferrule	2	SUS304	
6	Clamp Band	1	SUS304	
5	W-Ferrule	1	SUS304	
4	Gasket	1	Si	
3	Ferrule Cap	1	SUS304	
2	Bar Magnet	5	SUS304	
1	Housing	1	SUS304	
Item	Name	Qty	Material	Remarks

5. Installation

- 1) The magnet must be connected to a unit with the appropriate diameter and size. Note that connection with an inappropriately sized unit may cause powder leakage.

6. Maintenance

- 1) Note that if substances stuck to the magnet are left as they are, the magnetic separation efficiency of the magnet quickly degrades. Using waste cloth or something similar, wipe the magnet to remove substances adhering to it as often as possible. Frequent cleaning maintains the magnetic separation efficiency.

7. Repair and Modification

Nippon Magnetics, Inc. will not be responsible for any damage caused by user modifications or disassembly without our agreement. Never disassemble the magnet because of the potential for personal injury and damage to the properly designed and manufactured magnetic circuit.

8. Warranty

Nippon Magnetics, Inc., warrants the product for one year. If the product is defective or is damaged during this period, Nippon Magnetics shall repair or replace the product at no charge without being liable for any subsequent damage. Our warranty, however, does not apply to defects or damage caused by processing materials with high abrasiveness or corrosiveness or when the magnet is used for purposes other than magnetic separation.

9. Contacts

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