



**MAGNETIC PRODUCTS, INC.**

ENGINEERED METAL CONTROL SOLUTIONS

**intell-i-mag**

# Pneumatic Line Wave Magnet™

Series: WAV-SC



### Intell-I-Mag® Compatible

• Enables real-time monitoring of magnet saturation levels of the magnetic separator. This patented technology embeds sensors into the magnetic separator to measure the strength of the magnetic field. The sensors report data collected in real-time to a controller. The controller can be programmed to alert operators when the separator reaches user defined saturation levels - so they know when the magnet needs to be cleaner, or just as important, when it doesn't.

### Maximum tramp metal retention:

• Three (3) magnetic poles on either side of the central diverter ensure maximum product exposure to magnetic field and tramp metal holding power  
• The curved wave diverter directs the product to flow through the magnetic field, which provides an impressive holding force while utilizing less blower or vacuum capacity, leading to significantly reduced back pressure compared to standard pneumatic line magnets. The three-pole design produces a consistent magnetic field as product flows through the separator.

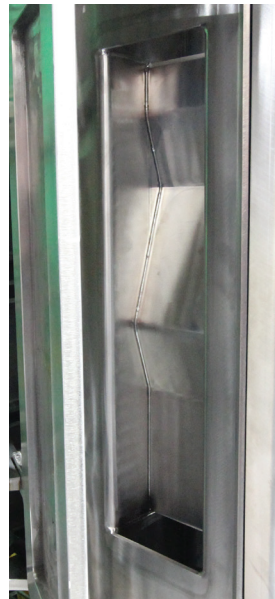
### Automated Pneumatic Self-Cleaning Design:

• Self Clean design operates pneumatically with two doors that open to create an air gap between the magnet and captured metal allowing the metal to drop into collection trays

### Sani-TIGHT Seal™ Gasket:

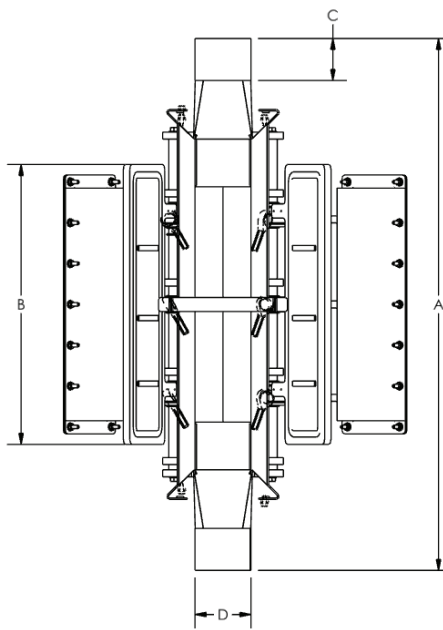
• Type: Compression style "O-ring" cord gasket (Optional metal detectable)  
• Sealing plate: 1/2" thick machined stainless channel  
• 100% Positive seal, cannot be over compressed  
• Sanitary: Gasket can be removed and replaced for wash-down, no adhesive required

**Designed for operating pressures of 15 PSI**



\*Specifications subject to change

Series WAV-SC Version 4.0 © MPI



## WAV-SC Selection Guide

MODEL SIZE	OVERALL LENGTH A		MAGNET LENGTH B		COLLAR LENGTH C		COLLAR DIAMETER D		UNIT WEIGHT	
	IN.	MM	IN.	MM	IN.	MM	IN.	MM	LBS.	KG
WAVE 2 inch	38	965	24	610	3	76	2	76	~329	~149
WAVE 3 inch	38	965	24	610	3	76	3	76	~329	~149
WAVE 4 inch	38	965	24	610	3	76	4	102	~329	~149

## Wave Pneumatic Line Magnet Options

### Pipe Size:

- Available in diameters from 2" to 4" in any increment.

### Cleaning Method:

- **Automated Pneumatic Self-Cleaning Design: (standard)**

### Magnet Element:

- 6 stepped poles (standard on sizes up to 4")

### Material Construction:

- **304 Stainless steel (standard)**
- 316 Stainless steel

### Magnet Material & Temperature:

- **176° F @ 52-55 MGOe (rare earth) (standard)**
- 248° @ 48 MGO (rare earth)

### Magnet Material & Temperature With Intell-I-Mag:

- **Designed for operating temperatures up to 225F or 105C**

### Gasket Material:

- **Metal detectable blue silicone, FDA approved (standard)**
- Buna, FDA approved
- White silicone, FDA approved
- Customer specified

### Inlet / Outlet Flange Design:

- **3" plain end for compression coupling installation (standard)**
- Cam Lock: male adapter
- Cam Lock: female adapter
- 150 pound ANS flange
- Customer specified

### Self-Clean Package:

- Pneumatic cylinder prepped for reed switch - 80 PSI input

### Valve Package:

- **120VAC explosion proof rated (Standard)**
- 24VDC explosion proof rated
- Manual lever to actuate magnet cycle
- Customer specified

### Material Transfer Direction:

- Vertical installation
- Horizontal installation

### Safety Cage Design:

- **Safety cage with slotted stainless steel and DESTACO clamps for easy access (standard)**
- **Safety cage with hinged cover for magnet access (standard)**
- Safety cage with Lexan viewing window

### Tramp Metal Collection Method:

- Removable collection tray
- **Open bottom safety cage with MPI standard flange (standard)**
- Removeable collection tray (split tray for sizes 1.6" and larger)
- Bolt on tramp iron collection transition to 4" pipe with sock bead to attach collection pipe or bag

### Safety cage and collection tray safety proximity sensors:

- **(4) Mounting holes for (4) customer provided proximity sensors (standard)**
- (4) MPI provided proximity sensors for safety cage and collection tray position verification