



**MAGNETIC PRODUCTS, INC.**

ENGINEERED METAL CONTROL SOLUTIONS

# Triple Rod Combination Screener Magnet

**Series: TW**



Product is pumped through the magnet where ferrous tramp metal collects on either an array of 1" diameter magnetic tubes or a single 3" diameter magnetic tube. The tramp metal collects behind the tubes in the direction of product flow to prevent tramp metal wash off. Non-magnetic particles are captured in a removeable basket strainer.

Standard inlet / outlet sizes available from 1.5" diameter up to 4" diameter

Combination magnet and basket strainer into one assembly

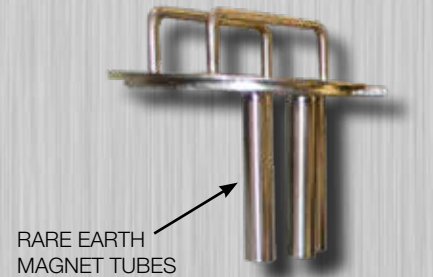
- Saves time by only checking one system for both ferrous and non-ferrous contamination
- Screen size built as required for each application

Easy installation into existing line using sanitary tri-clover, threaded or ANSI 150 pound inlet and outlet flanges

Metal detectable magnet housing gasket standard (Buna material)

Designed for operating at up to 80 PSI maximum pressure (at 70°F)

Designed for operating temperatures up to 356°F depending on model configurations



RARE EARTH  
MAGNET TUBES



FILTER BASKET

FILTER ASSEMBLY



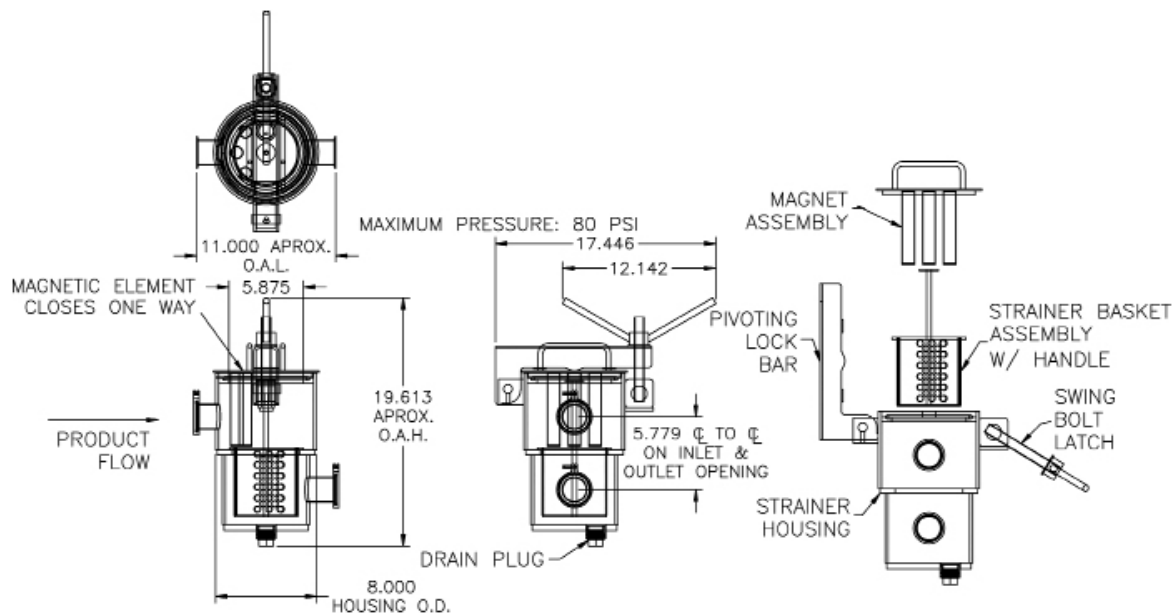
HEAVYDUTY QUICK-RELEASE  
CLAMP AND GASKET

*\*Specifications subject to change*

Series TW Version 3.0 © MPI

**MPI**

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## TW - Selection Guide

MODEL NUMBER	INLET	OUTLET	OVERALL LENGTH	CENTER TO CENTER
TW-1	1"	1"	11"	5.78"
TW-2	2"	2"	11"	5.78"
TW-3	3"	3"	11"	5.78"
TW-4	4"	4"	11"	5.78"

## TW - Selectable Options

### Pipe Size:

- Available in diameters from 1" to 4" in any increment.

### Cleaning Method:

- Manual clean (standard)**
- Manual quick-clean with sleeve over stripper for easy removal of tramp metal. Not recommended for sticky products. Sleeve over design reduces magnetic performance at contact.

**Magnet Element:** Two different styles are available depending on your application

- Array of 1" diameter tubes designed for liquids, purees, and products with solids 1/2" and smaller
- Single 3" diameter tube mounted in center of housing designed for products with fragments, solids or chunks up to 1" in size

### Material Construction:

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

### Magnetic Tubes [reference datasheet MT]:

- REN Rare Earth (standard)**
- Hi-G high performance Rare Earth
- TW Thin Wall high performance Rare Earth

### Magnetic Material Temperature:

- 176 F @ 52+ MGOe (rare earth) (standard)**
- 248° @ 48 MGO (rare earth)
- 356° @ 38 MGO (rare earth)
- 662° @ 28 MGO (rare earth)

### Tube Coatings:

- Stainless steel with no coating (standard)**
- Synergistic Coating [reference datasheet Synergistic Coating]

### Gasket Material:

- Buna material, color red, metal detectable, temperature range: -40°F to 225°F (standard)**
- Viton material, color white, temperature range: -10°F to 400°F
- Customer specified

### Inlet and Outlet Flange Design:

- Tri-Clover sanitary heavy duty quick-release clamp (standard)**
- NPT threads (for use of spin on flanges)
- ANSI 150 pound flange
- Plain end for welded pipe installation
- Customer specified

### Inlet and Outlet Height:

- Offset (standard)**
- Outlet inline with inlet (Increases overall length)

**Water Jacket:** For heating or cooling products

- Available**

**Drain:** Ball valve located on the bottom of the unit to drain before opening the magnet

- Available**

**Lock Out Tab:** Prevents unauthorized entry via customer supplied and installed pad lock

- Available**

**Screen Size:** Screen is manufactured to your applications requirements to screen non-ferrous material

- 1/8" (.125") perforated screen (standard)**
- 3/16" (.1875") perforated screen
- 1/4" (.25") perforated screen
- 1/2" (.50") perforated screen with 400 series stainless steel #40 mesh wire filter screen