



PERMAG's High Power liquid line Magnetic "T" Traps & Filters have been designed to operate in pressurized transfer lines to provide protection against ferrous and para-magnetic contamination.

It is an important part to remove medium and fine ferrous contaminations from liquid lines and slurries. PERMAG Magnetic Traps / Filters are made to be placed at critical points to remove metal contamination from product streams and guarantee the product quality and prevent damage to machines.

Magnetic Filters have an extremely powerful magnetic field. They are therefore best suited for filtering small ferrous contaminants as small as 30µm. Permagan use very powerful neodymium magnets as standard in our filters which withstand up to 100°C max.

## HOW IT WORKS

- > The Magnetic "T" Trap / Filters with very strong RE magnetic rods is positioned in the middle of the product flow. The product with ferrous contaminants passes several magnetic rods while flowing through the Traps / Filters.
- > The magnetic rods attract the ferrous contaminants. The captured particles stick to the magnetic rods while the purified product flows further.
- > For cleaning unlatch the wing nut / clamp and remove top lid having magnetic rods, simply wipe the ferrous contamination magnetic on rods using a clean cloth until its clean and relatch the top lid. Whole cleaning process takes 3-5 minutes.

## TECHNICAL DATA SHEET

- Magnetic Strength – 11500 To 12000 gauss variants available in magnetic gauss as per requirement.
- Magnet used – Nd-fe-b (Rare Earth)
- Grade – N 52M (Highest Grade)
- MOC – SS 304 / SS 316
- Surface finish – mirror / glass bead
- Inlet / outlet connection - flange , TC clamp , SMS union
- High grade FDA approved gaskets
- Heavy duty SS wing nuts , V band clamps for locking

## FEATURES

- ▶ 304 / 316 stainless steel, all welded rugged construction
- ▶ Very powerful high grade N52M rare earth magnets
- ▶ Available in 3000, 6000, 8000, 10000, 12000 gauss powers
- ▶ Working temperature grade: 80, 100, 120, 150 degree celsius
- ▶ Easy to install and zero maintenance required
- ▶ Remove metal upto 30 microns
- ▶ High filtration efficiency
- ▶ Easy to clean
- ▶ Custom size in length & diameter available



## ADVANTAGES

- Drastic reduction in bypass of ferrous particle through magnetic traps.
- Magnetic flux circuit geometry ensures the controlled build-up of contamination which reduces bridging or choking of product stream.
- Removal of iron content extends life of machines.
- Reduce downtime and increase productivity.
- Suitable for all locations – vertical , horizontal, angled