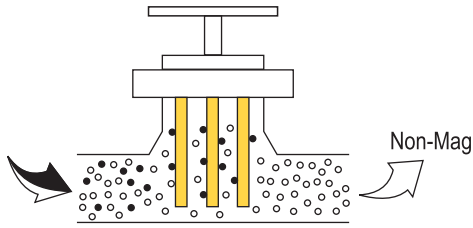
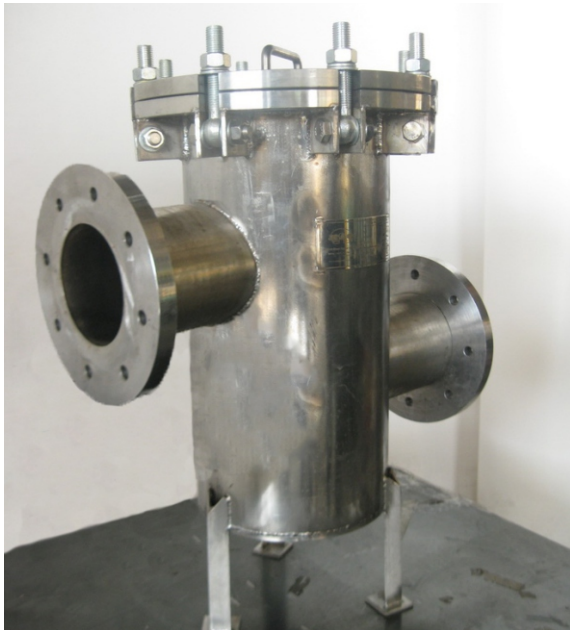


TPS



Trap Magnetic Separators can be installed in pipelines, handling pulp, slurries, ink and liquid lines without appreciable pressure drop or reduction in flow rates. They are used to separate ferrous particles in the liquid production line and they are widely used in the food, dairy, grain, chemical, pharmaceutical, plastics, textile, recycling, and other industries. The magnetic element, consisting of a group of magnetic bars arranging to cause the material flow entering the body to collide against the bars and filters through the magnetic field, completely covering the open area. The entrapped iron will have a tendency to work around and cling to down-stream side of the bars due to the magnetic circuit. Consequently, iron particles cannot be washed off by the continuous flow of material. Thus, the trapped ferrous particles can be easily inspected and cleaned from the body manually.

The magnet elements are made of rare earth material, Neodymium, with high magnetic strength. They provide similar circuit stability and long service life.



Capacities of trap magnets are related to type and viscosity of the material, and for heavy and viscous material would be 50% of the nominated capacity.

In the bottom of trap, heavy non-magnetic tramp metal, stones, etc. will be provide a sump which would be drain through bottom plug. Both end of the magnet bars considered non-magnetic elements to make easy cleaning possibility. In order to prevent from shut down during the cleaning procedure, a bypass way should be provided at installation position. frequently cleaning the magnetic bars will extremely improve the separation performance.

Application and Features

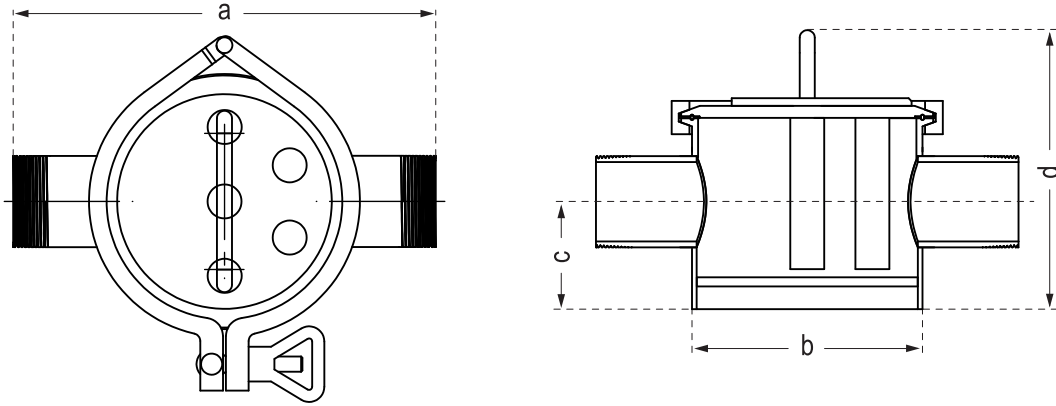
TPSs offer many advantages such as: contamination reduction, equipment damage prevention, and ferrous material reclamation. TPSs can also significantly reduce downtime, maintenance, and costly wear and tear on processing and production machinery. Furthermore, TPS can protect flow lines and products with finest liquid handling magnetic separators. They can prevent abrasive wear and pumps from jamming. As a result, they will assure to have a production line without any iron contamination.

Some others benefits of using TPS are:

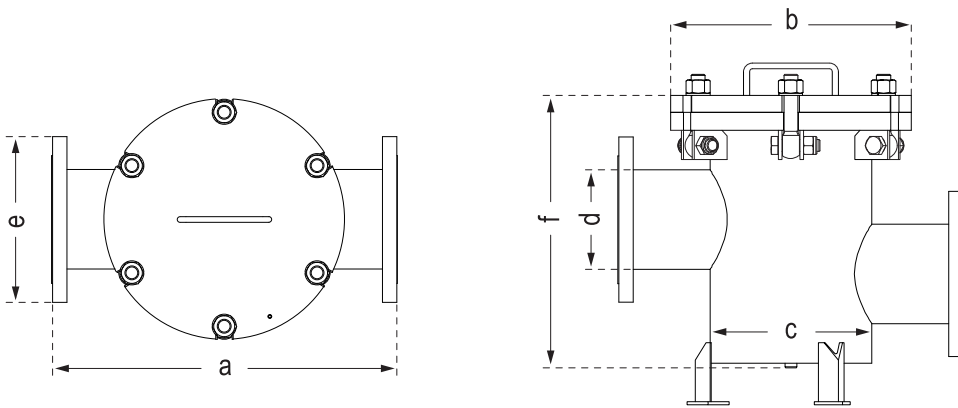
- 11000 Gs magnetic strength
- Stainless steel body and magnet bars
- Sanitary and non-sanitary models
- For pipe line, the sizes from 2 to 12 inches
- Easy cleaning
- 80° C for maximum handling material temperature
- Sealing with silicon rubber o-ring
- Maximum working pressure of 10 bar for clamp type and 5 bar for flange type
- No line pressure drop
- No consumable.



TPS



Model	Pipeline Size		Nominal Capacity	Overall Dimensions				Magnet Bar		Total Weight Approx.
	Inch	mm		a	b	c	d	Effective length	No.	
			liter/sec	mm	mm	mm	mm	mm	qty	kg
TPS 02	2	50	3	280	168.3	71	180	100	5	13.5
TPS 03	3	80	6	313	219.1	100	235	150	6	17.5
TPS 04	4	100	8	400	219.1	126	285	200	6	22.5



Model	Pipeline size		Nominal Capacity	Overall Dimensions						Magnet Bar		Total Weight Approx.
	inch	mm		a	b	c	d	e	f	Effective length	No.	
			liter/sec	mm	mm	mm	mm	mm	mm	mm	qty	kg
TPS 06	6	150	35	585	406	273	168	280	460	300	7	105
TPS 08	8	200	65	660	483	324	219.1	343	562	400	9	128
TPS 10	10	250	98	770	597	407	273.1	407	766	600	11	210
TPS 12	12	300	110	870	635	457	323.9	483	770	600	15	240



MAG Develop Pty Ltd

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