

# TANK MAGNETS

*LDI Tank Magnets Pay Off For You* because they pick-up material that ordinary filters miss. Tank Magnets help maintain clean oil. The cleaner the oil can be kept in your reservoirs, the less your troubles will be and the greater your savings will be.

**REGULAR TANK MAGNETS** – This Heavy Duty model uses 5/8 inch solid steel rod, furnished with a 5 inch support rod. However, these support rods can be ordered any length desired, either shorter or longer than 5 inches to suit the reservoir. Heavy Duty comes with the end threaded 5/8-18 NF. The support rod can also be furnished with special threads or with special means of attachment brazed on. Pipe plugs are optional and are furnished in 2 1/2 inch NPT size. The recommended opening that will accommodate the unit is a 2 1/2 inch pipe flange or a hole approximately 2 1/4 inches in diameter. If desired, it can be installed in the cover of any opening larger than this.

**Construction** – The magnetic unit of the LDI Tank Magnet is exceptionally efficient. Each section is composed of a larger doughnut shaped ceramic magnet and two disc shaped pole pieces. This unique design adds the area of the discs to the area of the magnets to give the greatest amount of magnetic surface possible. This design also permits the hydraulic fluid to flow in and around the magnets and discs, thus allowing the oil to come in intimate contact with the magnets and discs to facilitate the removal of ferrous particles.

**SLIM LINE TANK MAGNETS** consists of Alnico V Magnets encased in a non-magnetic tube with the major difference between it and regular tank magnet being that it is only 5/8 inch in diameter. This means that it can be put through a hole tapped for 3/4 inch pipe plug and can be used where mounting space is a premium. Slim Line Tank Magnets come in two types, the **Slim Line** and **Extra Sturdy Slim Line**, with standard aluminum or optional Stainless Steel housings. The aluminum housing series are numbers SL-11, etc. for the Slim Lines and SLX-11, etc. for the Extra Sturdy lines. To designate the Stainless Steel housing units, SS is added after the appropriate catalog number, i.e., SLX-13 SS.

**Construction – Magnetic units** – Basically the same for all types of Slim Lines, the magnetic units vary only in length. **Support rods** – All Slim Lines are normally furnished with a 5 inch long support rod, but can be furnished with any length, either longer or shorter than the standard 5 inch length. **Housing** - Slim Lines come with aluminum housing for use with ordinary hydraulic fluids. For use where conditions might cause problems such as water glycols or phosphate esters, a Stainless Steel housing is provided. **Mounting** – Pipe plugs for mounting in the reservoir top are optional and are furnished in any size from 3/4 inch NPT to 3 inch NPT, with a 1 1/4 inch NPT or larger being recommended.

**Application** – For greatest protection – Use a size such, that the magnetic unit extends from 1 inch off the floor of the reservoir to the top of the oil level.

For lowest cost – Use a standard unit of any series for all sizes of reservoirs. Position is 1 inch from the bottom of the reservoir with proper length support rod.

No maintenance is needed except for periodic cleaning, with cleaning once a month recommended. To clean, remove from the reservoir, wipe with a clean cloth and reinstall.

## WHICH ONE SHOULD I USE?

### STANDARD

When...

- The support rod is short
- The magnetic unit is small
- Normal use can be expected
- Cost is important

### HEAVY DUTY

When...

- The support rod is greater than 12 inches
- The magnetic unit is large
- Abuse in shipping or operation is expected
- A little more can be spent

## CLEANING

Cleaning a Tank Magnet couldn't be easier. An ordinary air hose using shop compressed air does the job in seconds.

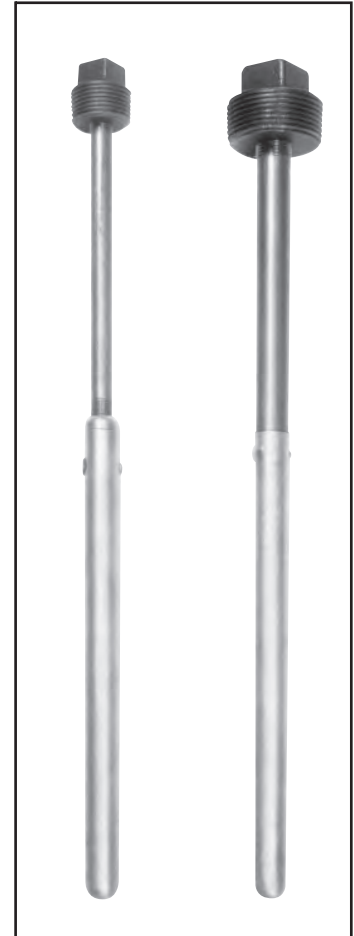
### STANDARD MAGNETS



Cat. No.  
HMD-13  
with 9 inch  
support rod  
and 2 1/2 inch  
pipe plug  
HEAVY DUTY

Cat. No.  
TM-14  
with 5 inch  
support rod  
and 2 1/2 inch  
pipe plug  
STANDARD

### SLIM LINE MAGNETS



Cat. No.  
SL-18-5  
with 5 inch  
support rod  
and 1 1/4 inch  
pipe plug  
STANDARD

Cat. No.  
SLX-18  
with 5 inch  
support rod  
and 1 1/4 inch  
pipe plug  
HEAVY DUTY

# TANK MAGNETS

Tank Magnets are used in conjunction with conventional filter systems. When used properly as a backup to a filter system they help trap small ferrous particles that may be missed by the filtration system.

## Standard Features:

### TM Series:

- Doughnut shaped ceramic magnets
- Use with PM-250 plug (2.50 inch NPT)

### HDM Series:

- Doughnut shaped ceramic magnets
- Use with PM-250HD plug (2.50 inch NPT)

### SL Series:

- Aluminum housing
- Use with PM-125 plug (1.25 inch NPT)

### SLX Series:

- Aluminum housing
- Use with PM-125X plug (1.25 inch NPT)

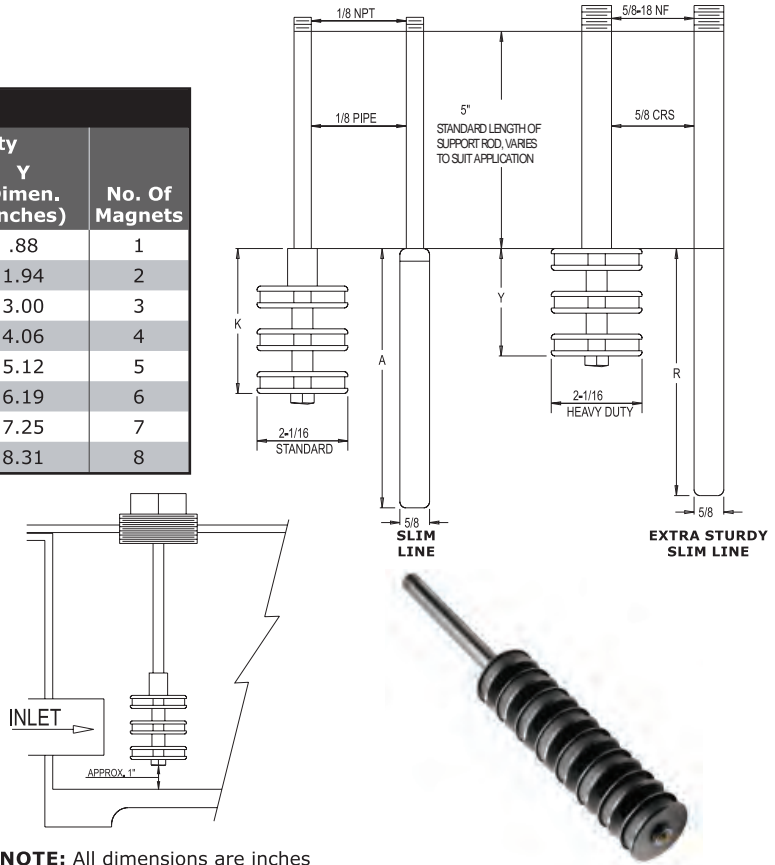
### Magnetic Plugs:

- Steel body
- Ceramic magnet
- Permanent magnet fastened to plug body

Standard / Heavy Duty					
Reservoir Capacity (gal)	Standard		Heavy Duty		No. Of Magnets
	Part No.	K Dimen. (inches)	Part No.	Y Dimen. (inches)	
0-10	TM-6	1.62	HDM-6	.88	1
10-30	TM-7	2.69	HDM-7	1.94	2
30-60	TM-9	3.75	HDM-8	3.00	3
60-100	TM-10	4.81	HDM-9	4.06	4
100-150	TM-11	5.88	HDM-10	5.12	5
150-210	TM-12	6.94	HDM-11	6.19	6
210-280	TM-13	8.00	HDM-12	7.25	7
280-350	TM-14	9.06	HDM-13	8.31	8

Slim Line / Extra Sturdy Slim Line			
Slim Line		Extra Sturdy Slim Line	
Part No.	A Dimen. (inches)	Part No.	R Dimen. (inches)
SL-11	6.00	SLX-11	5.75
SL-13.5	8.50	SLX-13	8.25
SL-16	11.00	SLX-16	10.75
SL-18.5	13.50	SLX-18	13.25
SL-21	16.00	SLX-21	15.75
SL-23.5	18.50	SLX-23	18.25
SL-26	21.00	SLX-26	20.75
SL-28.5	23.50	SLX-28	23.25
SL-31	26.00	SLX-31	25.75

Our experienced design engineers are available to give you quick and efficient help on any problems you may have with magnetic applications or with special designs



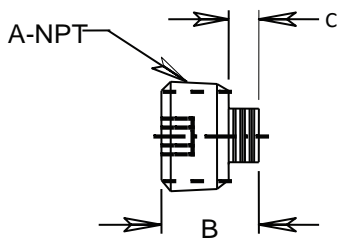
NOTE: All dimensions are inches

### WHEN ORDERING BE SURE TO:

- List number of the magnetic unit
- Give part number of plug (if plug is desired)
- Give length of support rod (if other than standard 5 inches)
- Add SS to unit number if Stainless Steel housings are desired

## MAGNETIC DRAIN PLUGS

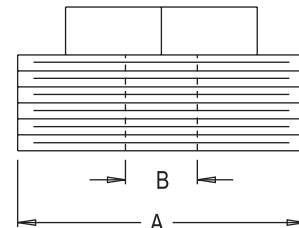
Use as drain plug at lowest location in sump. Magnet will attract and hold magnetic particles that may be in fluid line.



Magnetic Drain Plug			
Part No.	A NPT (inch)	B inch (mm)	C inch (mm)
MDP101	1/8	.62 (15.75)	.25 (6.35)
MDP102	1/4	.69 (17.53)	.28 (7.11)
MDP103	3/8	.69 (17.53)	.31 (7.87)
MDP104	1/2	.81 (20.57)	.20 (5.08)
MDP105	3/4	.75 (19.05)	.22 (5.59)
MDP106	1	.75 (19.05)	.18 (4.57)

## Pipe Plug for Tank Magnets

Part No.	A NPT (inch)	B Thread	Use with Magnet
PM-125	1 1/4	1/8 inch NPT	SL Series
PM-125X	1 1/4	5/8-18NF	SLX Series
PM-250	2 1/2	1/8 inch NPT	TM Series
PM-250HD	2 1/2	5/8-18NF	HDM Series



Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.