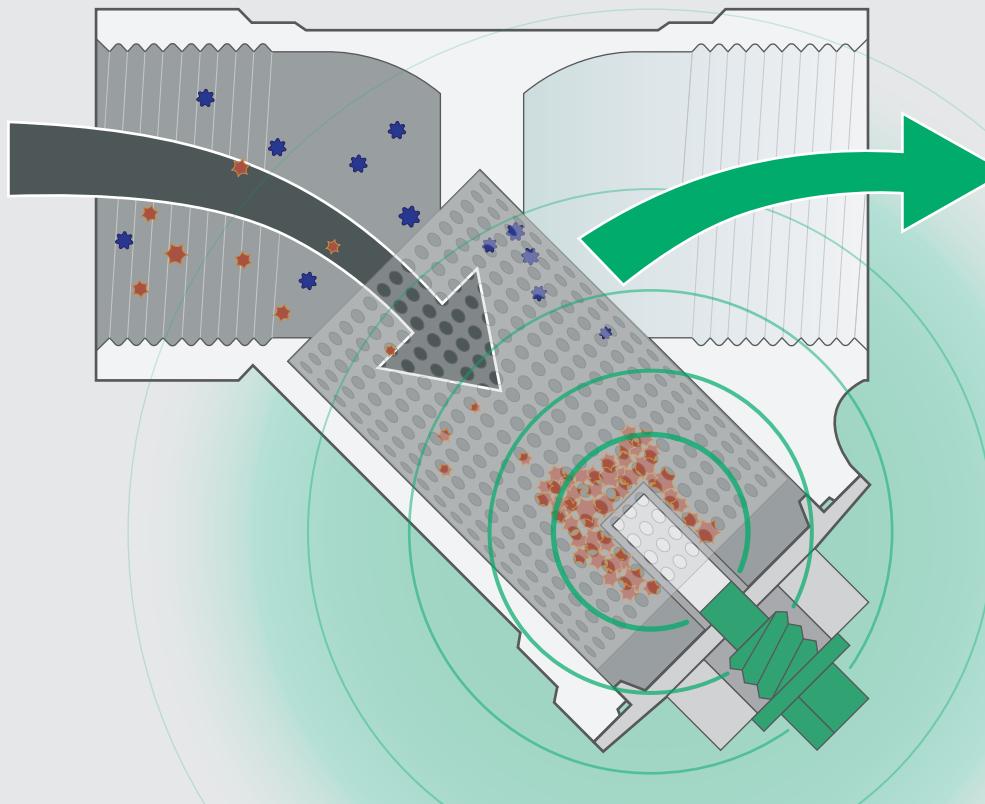


# DATA SHEET



## Y-MAG® Brass Description:

Y-MAG® 2 in 1 patented magnetic filter with dry pocket technology available in DZR Brass from 1/2" to 2".

## Product Codes:

1/2"	-	V-X-YMAGDZR1/2"BR
3/4"	-	V-X-YMAGDZR3/4"BR
1"	-	V-X-YMAGDZR1"BR
1 1/4"	-	V-X-YMAGDZR1.1/4"BR
1 1/2"	-	V-X-YMAGDZR1.1/2"BR
2"	-	V-X-YMAGDZR2"BR

## What is a Y-MAG®? -

Y-MAG® combines the most current strainer technology with our patented dry pocket magnetic filtration technology in one easy-install magnetic filter.

Conventional strainers which become fouled under poor water quality conditions add resistance to system pumps, which requires additional electrical load from hydronic pumps to meet the same demand for flow and Delta T.

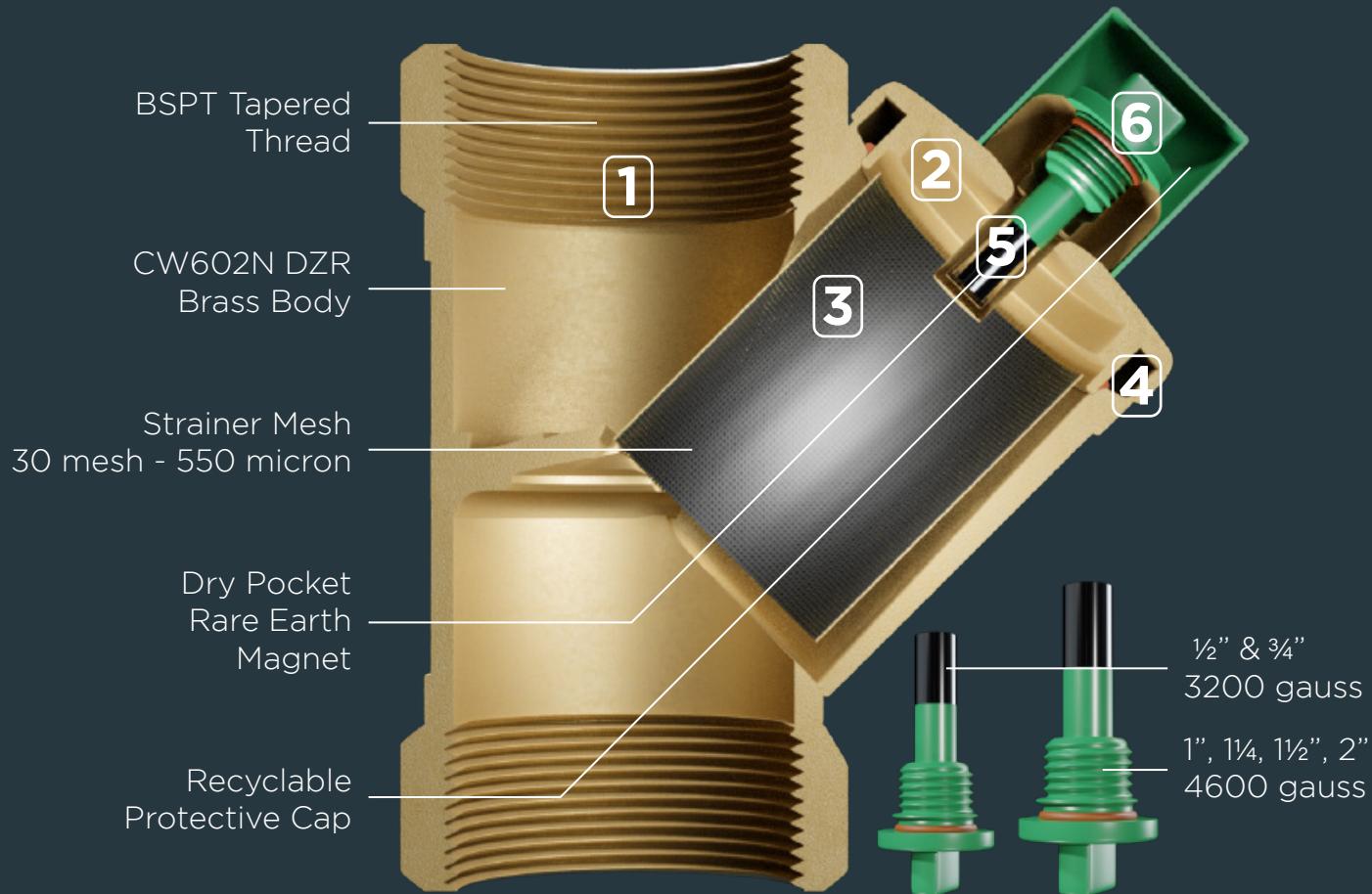
The Y-MAG® magnetic filter provides filtration at a level of 30 mesh/550 micron via a strainer mesh- thus increasing the lifespan of the heating and chiller/cooling system components, whilst providing magnetite removal via a powerful rare earth magnet, further increasing strainer efficiency, maintaining design flow rates and Delta T, whilst supporting the lifespan of the heating and chiller/cooling system components, mitigating non-repeatable commissioning flow rates at project handover and mitigating project delays during system commissioning.

Further benefits include reduced reactive call-out maintenance for live buildings and a holistic approach to the reduction of carbon emissions and increasing fuel efficiency.

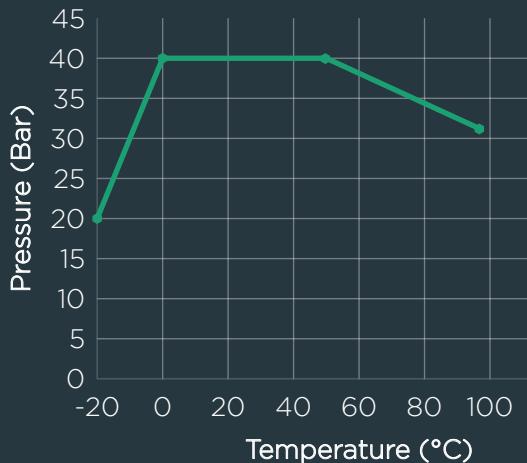
## Y-MAG® Magnetic Filter Features -

- Patented and innovative dry pocket magnet design.
- Laboratory tested for corrosion resistance under the toughest conditions.
- Accelerates pre-commissioning cleaning task for new systems
- Mitigates non repeatable commissioning validation results
- Reduces maintenance call out tasks
- Maintains and improves component performance and thermal comfort
- Increased component reliability and safeguards clients reputation
- Maintains system and terminal unit design efficiency and life-cycle
- Lowers CO<sub>2</sub> and energy use on aged/existing systems during retrofit
- Mitigates under-deposit corrosion and suspended solids on lateral pipework-improving water quality.
- Enhanced pump protection
- Simple to maintain
- Outperforms conventional Y-Type strainer technology

# Y-MAG ILLUSTRATION



## Y-MAG® Temperature/Pressure



## Materials of Construction

1. Strainer Body:	DZR Brass (CW602N)
2. Strainer Cap:	DZR Brass (CW602N)
3. Strainer Mesh:	304 Stainless Steel
4. Gasket:	PTFE
5. Rare Earth Magnet:	N35SH
6. Magnet Cap:	PPA

## Technical Specification -

**Connections:** Screwed Female BSPT to BS EN 10226-2

### Operating Parameters:

Working Temperature	-20°C	0°C	0-50°C	95°C
Maximum Working Pressure	20 Bar	40 Bar	40 Bar	32 Bar

**Filter Mesh:** 30 Mesh (550 Micron)

**Magnet Filter:** Each magnet is contained in a PPA cap which can be unscrewed from the dry pocket for cleaning.

**Magnet Cap:** M1 - 4600 Gauss, M2 - 3200 Gauss

**Approvals:** PED 2014/68/EU. Tested in accordance with BS EN 10226-2 & BS EN 12164

**Installation:** Horizontal and Vertical

The Y-MAG® magnetic filter should be installed in the correct orientation with the angled portion of the filter pointing down and sited with maintainable access.

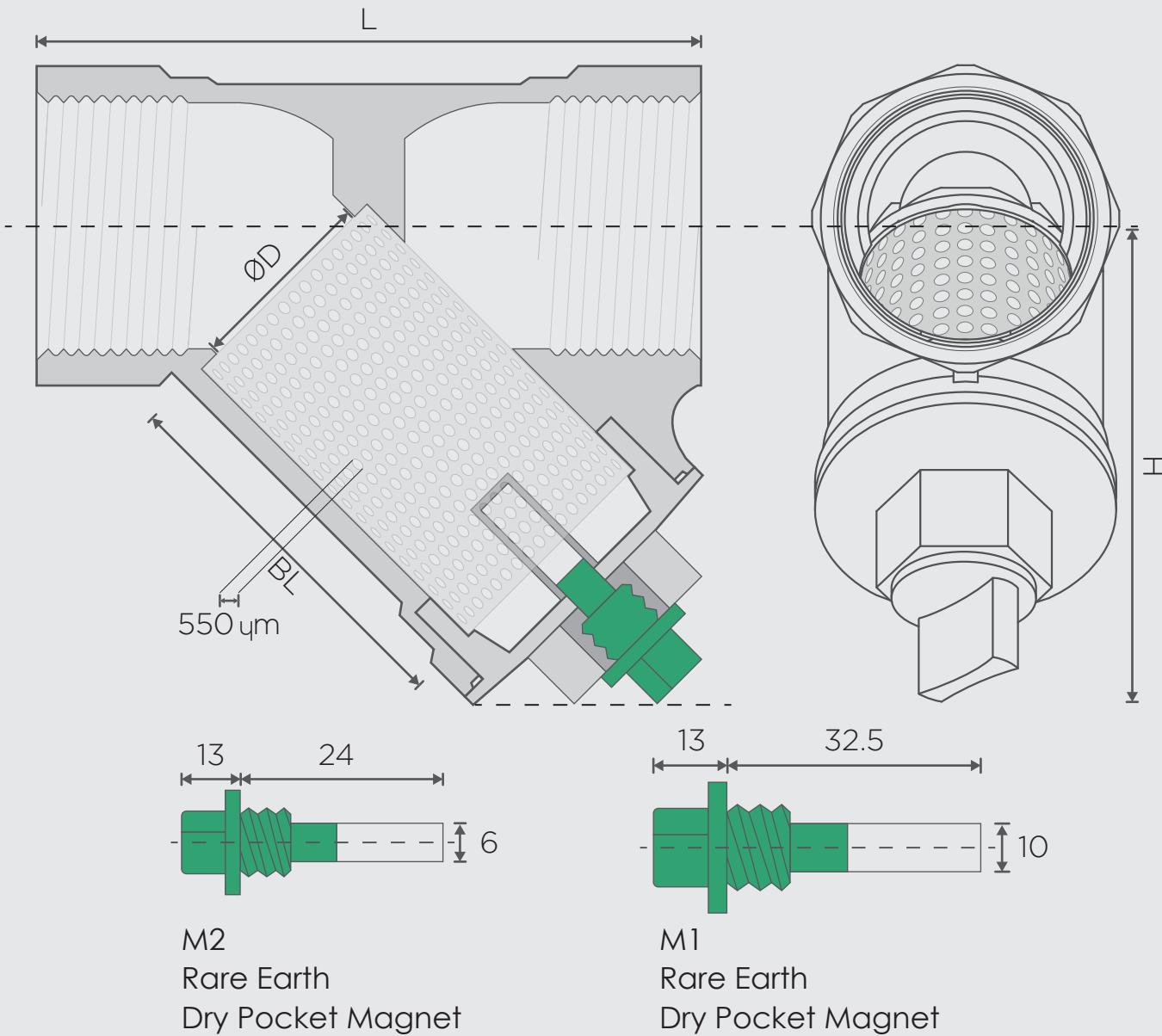
**Servicing:** Fully serviceable with a removable magnet cap and strainer mesh.

**Recyclable:** The Y-MAG® features a HDPE magnet cover which is fully recyclable.

## Applications -

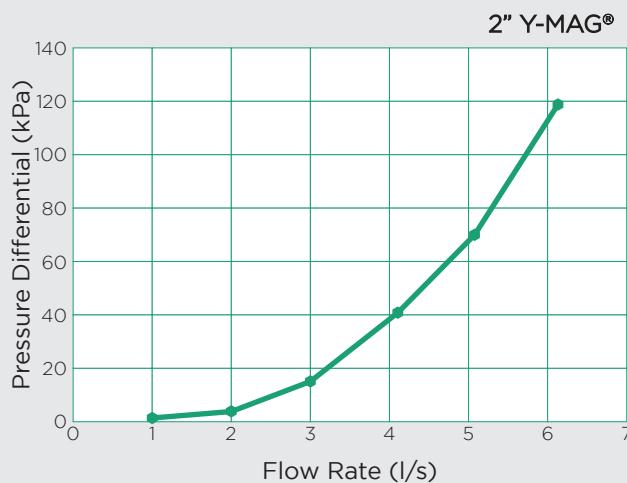
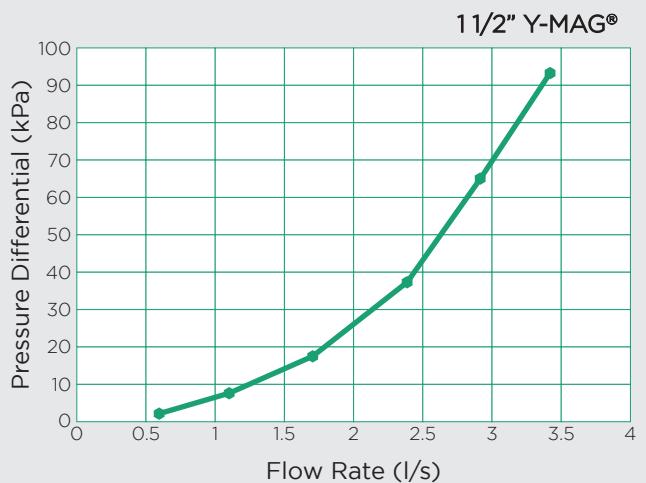
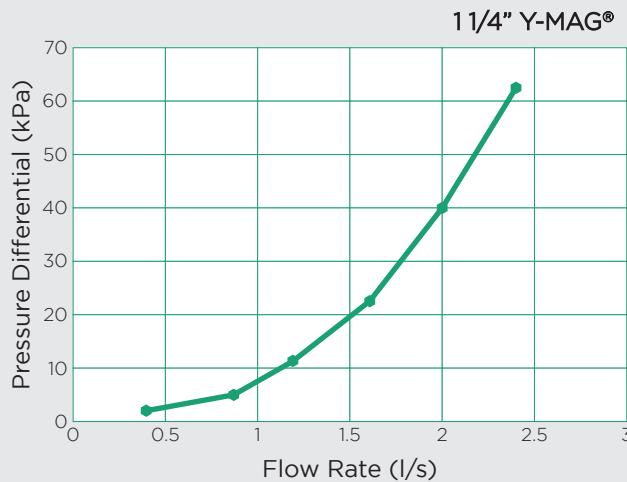
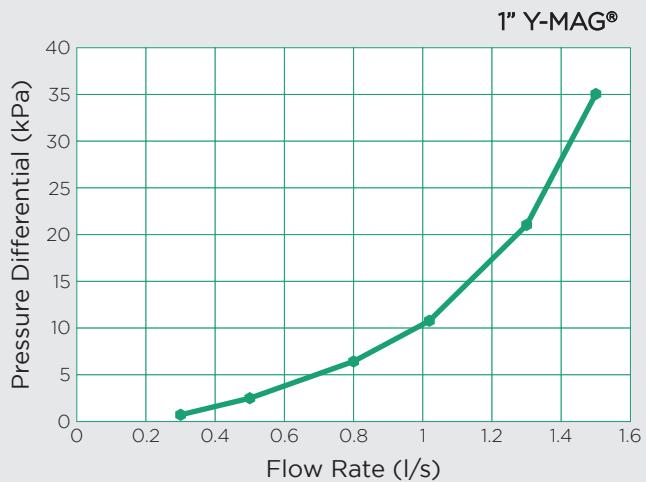
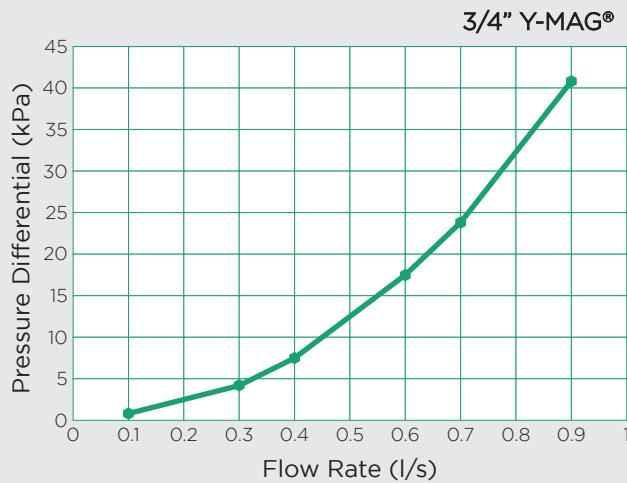
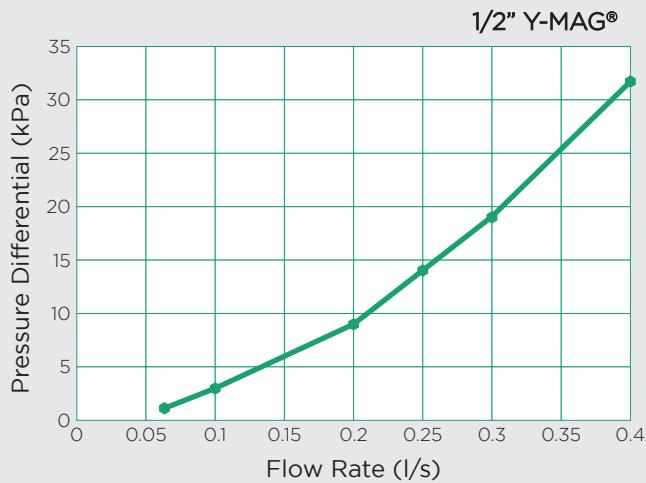
The Y-MAG® magnetic filter is suitable for use in residential, commercial and industrial systems. The Y-MAG® can be installed in heating, chiller/cooling, and condenser systems to provide system protection.

## Dimensions -



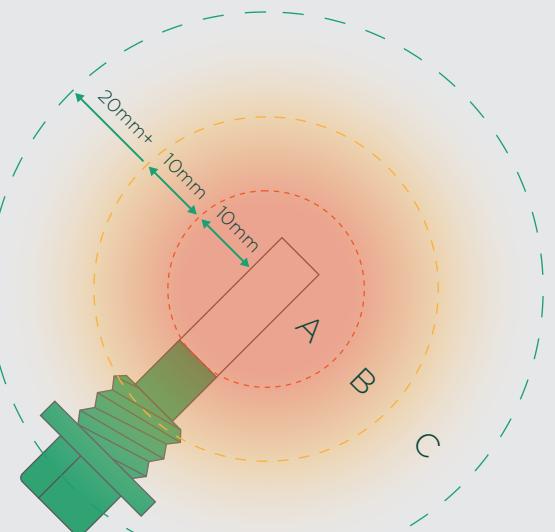
Strainer Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
ØD	14	20	25	30	38	48
H	38	46	55	65	72	90
L	59	70	86	96	107	133
BL	30	34	42	47	54	69
Weight (KG)	0.2	0.3	0.5	0.7	0.9	1.35
Magnet	M2	M2	M1	M1	M1	M1

## Pressure Drop vs. Flow Rate -

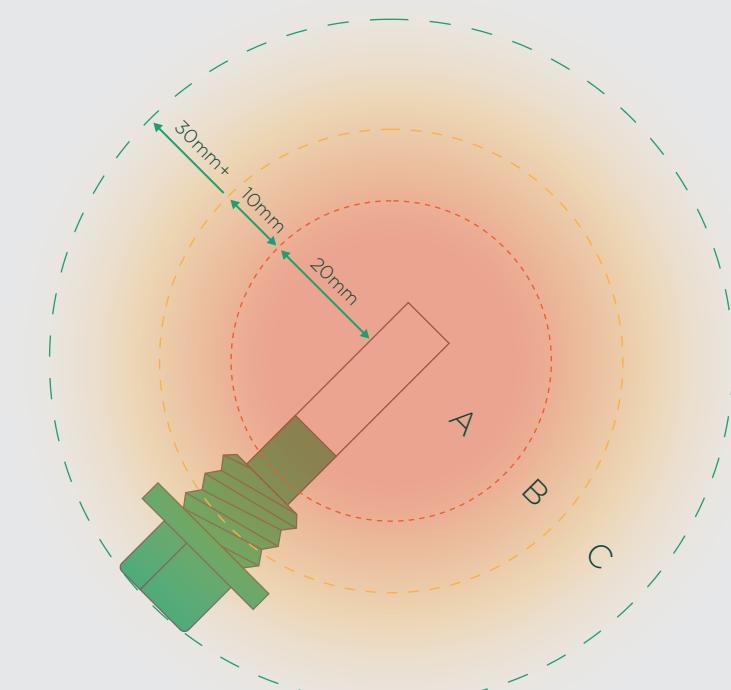


## Magnetic Safety -

## M2 Magnetic Cap (1/2" to 3/4")



## M1 Magnetic Cap (1" to 2")



Please maintain the minimum safety advisories when handling and operating the Y-MAG® magnetic filter.

**Zone A** - Immediate area around the rare earth magnet will cause damage to magnetic equipment including but not limited to watches, actuator heads, data storage drives - pinch hazard between rare earth magnet and magnetic elements.

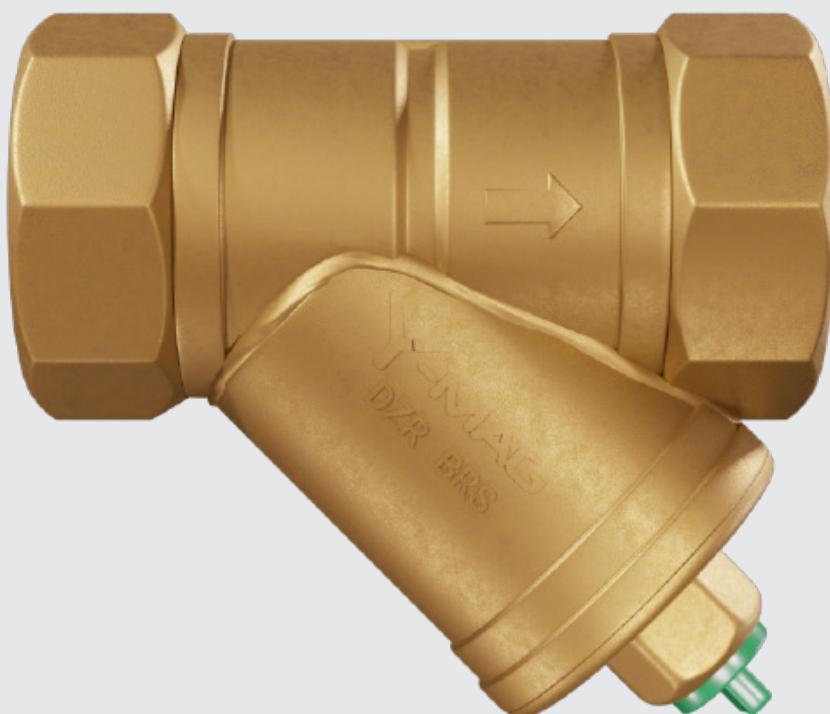
**Zone B** - The subsequent area will cause damage to cardiac pacemakers.

Zone **C** - Safe operation zone.

## Disposal Method -

COMPONENT	DISPOSAL METHOD
Unit	Recycle - Scrap metal

# DUAL FUNCTION MAGNETIC FILTER



- ✓ Outperforms conventional Y-Type strainer technology
- ✓ Enhanced pump protection
- ✓ Simple to maintain
- ✓ Improves component performance and thermal comfort
- ✓ Lowers CO<sub>2</sub> and energy use
- ✓ Improves water quality