Metal Y Type
Disc & Screen Filters

YE & YD

METAL **FILTERS**



Efficient Filtration in a Strong Y-Frame.

Built on a durable metal Y-body, our Manual Disc/ Screen Filter combines strength and versatility in one streamlined design. Engineered for reliability under pressure, it offers adaptable filtration through both disc and screen elements—ideal for diverse water conditions. With no motors, no energy use, and minimal maintenance, this robust filter turns simplicity into lasting performance. When efficiency meets endurance, the Y-body stands its ground.



YE-YD

BEYOND Filtration BEYOND LIMITS

GENERAL **SPECIFICATION - YE**

- Body Material : S235JR
- Screen Material : SS304L, PA6GFR30
- Maximum Working Pressure : 8 bar ; 116 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Filtration Sensitivity : 20-2000 µ (micron)
- Painting Method : Electrostatic Powder Coating
- Paint Coating Material : Epoxy-Polyester

GENERAL **SPECIFICATION - YD**

- Body Material : S235JR
- Cartridge Material : PP
- Maximum Working Pressure : 8 bar ; 116 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Filtration Sensitivity : 20, 50, 100, 130, 200 µ (micron)
- Painting Method : Electrostatic Powder Coating
- Paint Coating Material : Epoxy-Polyester

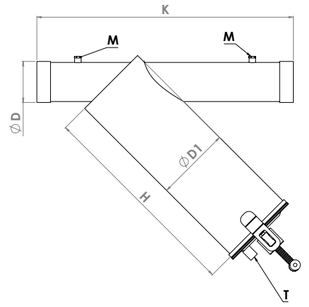
CLEANING PROCESS

Manual cleaning is required when the pressure differential, monitored via manometers, indicates the filter is clogged. The process begins by shutting down the system and depressurizing the filter. The cover is then removed, and the filter cartridge is extracted.

The cleaning method depends on the filter type. A screen filter is cleaned by directly washing the screen with pressurized water. For a disc filter, the compression screw on the cartridge is loosened to separate the discs, allowing pressurized water to effectively clean their surfaces. After cleaning, the cartridge is reassembled and reinstalled, and the filter is returned to service.

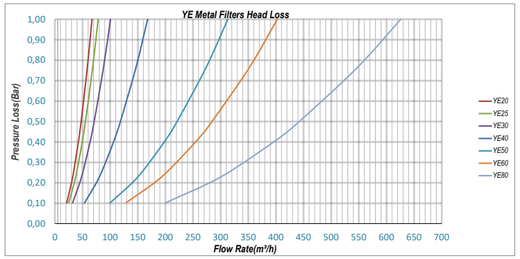
WORKING PRINCIPLE

The filter operates by passing water through a filtration element, which can be either a fine screen or a stack of discs. During operation, contaminants accumulate on the surface of this element—the inner surface in the case of a screen, or the outer surface for discs. This buildup obstructs the flow, creating a pressure differential between the filter's inlet and outlet. To ensure proper performance, the filter must be cleaned by the time the pressure difference reaches 0.7 bar.



YE - Technical Specifications

CODE	D	D1	M	T	K	H	Flow Rate		Weight
	Inch				mm		m³/h	GPM(US)	kg
YE20	2	6	1/4	1/2	515	240	30	132	12
YE25	2 1/2	6	1/4	1/2	570	360	35	154	14,6
YE30	3	6	1/4	1/2	570	480	45	198	18
YE40	4	8	1/4	1/2	670	605	75	330	28
YE50	5	10	1/4	1	900	700	140	616	51
YE60	6	10	1/4	1	1100	1000	180	792	88
YE80	8	12	1/4	1	1200	1200	280	1232	115



YD - Technical Specifications

CODE	D	D1	M	T	K	H	Flow Rate		Weight
	Inch				mm		m³/h	GPM(US)	kg
YDS20	2	6	1/4	1/2	520	400	30	132	16
YD25	2 1/2	8	1/4	3/4	590	400	35	154	20
YD30	3	8	1/4	3/4	590	515	45	198	24
YD40	4	8	1/4	3/4	670	625	70	308	29

