Vertical
Metal Disc Filter

LD

METAL **FILTERS**



Reliable Filtration, Ingeniously Engineered.

Our Manual Disc Filter delivers exceptionally consistent performance through a brilliantly simple, motor-free design. It intelligently harnesses the inherent pressure of your liquid flow for effective filtration, ensuring zero energy consumption and minimal maintenance. Customizable with a range of materials, including high-grade stainless steel for industrial challenges, it's the smart choice for sustainable, long-term reliability.





BEYOND Filtration BEYOND LIMITS

GENERAL **SPECIFICATION**

- 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 by manometers, indicates that the filter is clogged. The process begins by shutting down the system and depressurizing the filter. The cover is then removed and the disc cartridge is extracted. The key to the cleaning principle is loosening the cartridge's compression screw, which separates the discs and exposes their entire surface area. This allows pressurized water to effectively flush away all accumulated contaminants. After cleaning, the cartridge is re-compressed, reinstalled, and the filter is returned to service.

WORKING PRINCIPLE

Water enters the filter and passes through a stack of discs. As it flows toward the outlet, contaminants gradually accumulate on the outer surface of these discs. This buildup creates a pressure difference between the inlet and outlet. To ensure proper performance, the filter must be cleaned by the time the pressure difference reaches 0.7 bar.

Technical Specifications

CODE	D	D1	M	T	K	H	Flow Rate		Weight
	Inch				mm		m^3/h	GPM(US)	kg
LDS20	2	6	1/4	1/2	320	400	30	132	15
LDS25	2 1/2	8	1/4	3/4	320	400	35	154	19
LDS30	3	8	1/4	3/4	455	515	50	220	22
LD40	4	8	1/4	3/4	555	625	70	308	27



