

Filter Model

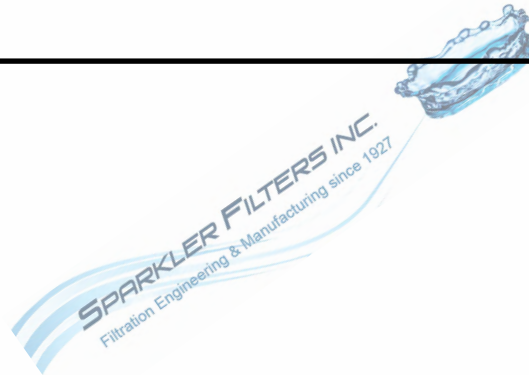
Design Specifications

Port Specifications

Material of Construction

Design Options

Gaskets & Finishes



V & VR DUAL DISC HORIZONTAL PLATE FILTERS

Standard model specs. Number of filter plates can be custom. V Filters are wire mesh or bag filters only, no filter paper. Contact us for more information.

V

U.S.

CARTRIDGE	FILTER AREA FT ²	CAKE CAPACITY FT ³
V-12-3	4.71	0.073
V-12-6	9.42	0.147
V-17-12	38.16	0.596
V-17-18	57.24	0.894
V-17-24	76.32	1.192
V-17-33	104.94	1.638
V-32-10	109.9	2.575
V-32-14	153.86	3.605
V-32-19	208.81	4.893
V-32-23	252.77	5.923
V-32-28	307.72	7.21
V-32-32	351.68	8.24

Metric S.I.

CARTRIDGE	FILTER AREA M ²	CAKE CAPACITY M ³
V-12-3	0.44	0.0021
V-12-6	0.88	0.0042
V-17-12	3.55	0.0169
V-17-18	5.32	0.0253
V-17-24	7.09	0.0338
V-17-33	9.75	0.0464
V-32-10	10.21	0.0729
V-32-14	14.29	0.1021
V-32-19	19.40	0.1386
V-32-23	23.48	0.1677
V-32-28	28.59	0.2042
V-32-32	32.67	0.2333

VR

U.S.

CARTRIDGE	FILTER AREA FT ²	CAKE CAPACITY FT ³
VR-12-3	4.71	0.073
VR-12-6	9.42	0.147
VR-17-12	38.16	0.596
VR-17-18	57.24	0.894
VR-17-24	76.32	1.192
VR-17-33	104.94	1.638
VR-32-10	109.9	2.575
VR-32-14	153.86	3.605
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VR-32-28	28.59	0.2042
VR-32-32	32.67	0.2333

Horizontal Plate Filter

Request for quote- definitions and additional information.

Filter Type-

[Standard Horizontal Plate Filter](#)- One of the most universally accepted industrial liquid filtration solutions in the world. Uniform flow, compact, no moving parts and simple design.

[Reverse Flow Filter](#)- The Sparkler Reverse Flow Filter combines the proven ability of the Standard Horizontal Plate Filter with the benefit of easy maintenance due to its reverse flow design.

[VR Dual Disc Filter](#)- The Sparkler VR Dual Disc Filter is designed for processes which require the removal of all traces of solids. Generally used in applications where solids are under .1%.

[V Dual Disc Filter](#)- The Sparkler V Dual Disc Filter is similar in design to the VR type but generally designed for cloth and wire media using a pre-coat. All plates are V shaped, allowing direct pathway to the filter media.

[Wash-Off Filter](#)- Sparkler Wash-Off Filters offer cake stability, plus low consumable-cost, less labor, fast cleaning, and savings in materials for real filtration economy with no sacrifice in quality. About 1/3 of the cleaning time of traditional filters and generally designed for cloth or wire filter media.

Cartridge Description- **some aspects may vary based on precise model*

XS (Extra Shallow) : .325-.55" solids loading space between filter plates. Cartridges consist of filter plates, bottom ring or Scavenger Plate and top ring.*

S (Shallow): ¾-1" solids loading space between filter plates. Cartridges consist of filter plates, bottom ring or Scavenger Plate and top ring.*

D (Deep): 1 ¼-2" solids loading space between filter plates. Cartridges consist of filter plates, bottom ring or Scavenger Plate, one shallow plate next to the Scavenger and top ring.*

Wetted Material- Portion of the filter that comes into contact with the liquid being filtered. Example: inside of filter tank, filter cartridge.

Non-Wetted Material- Portion of the filter that is not intended to come into contact with the liquid being filtered. Example: outside of filter tank.

Scavenger Plate- A Scavenger Plate minimizes unfiltered product in applications where it is essential to recover as much filtrate as possible. Unnecessary on Reverse Flow Filters.

Jacket- Jacket will extend over the tank section only. Jackets are primarily used to regulate temperature.

Cover Mechanism- Standard cover mechanism varies depending on the size of the filter. Alternative designs can be furnished if requested. Example: Handles are standard on 14" and 18" filters while a hand wheel and davit arm are standard on 33" and 44" filters.

Differential Pressure- Pressure drop across filter plates. Standard drop is 50 PSIG. Higher pressure drops can be furnished on request.

Filter Mounting- Standard mounting includes three pipe legs with floor flanges. Alternative designs can be furnished if requested.

Required Micron Retention- What micron retention does your application require? This will help us determine what type of filter media would be best for your particular application.

Spare Cartridge- In some applications, the time that it takes to clean the cartridge causes lost production. Many customers prefer a second cartridge for their filter. Having a spare cartridge allows you to quickly replace the cartridge and reduce downtime.

Spare Bottom Equipment- Reduces cleaning time, particularly for the D (Deep) cartridge type.

Sight Glass Port- A sight glass port can be used to view the inside of the filter while in operation. Often times, two sight glass ports are requested; one as a light source and the other to use as a view port to monitor operation.

Standard Ports and Sizes

PORT ID	8"	14"	18"	18" Rubber Lined	33" Standard	33" Reverse Flow	33" Rubber Lined	44"	44" Rubber Lined
Inlet	3/8" MNPT Common to Drain	3/4" MNPT	1 1/2" MNPT	1 1/2" 150# Flg'd	2" MNTP	2 1/2" 150# Flg'd	2 1/2" 150# Flg'd	6" 150# Flg'd	6" 150# Flg'd
Outlet	1/2" MNPT	1 1/2" FNPT	1 1/2" FNPT	1 1/2" 150# Flg'd	2 1/2" FNTP	2 1/2" 150# Flg'd Common to Drain	2 1/2" 150# Flg'd	6" 150# Flg'd	6" 150# Flg'd
Drain	3/8" MNPT Common to Inlet	3/4" MNPT	3/4" MNPT *	1" 150# Flg'd	2" MNTP	2 1/2" 150# Flg'd Common to Outlet	2 1/2" 150# Flg'd	6" 150# Flg'd	6" 150# Flg'd
Air Vent	1/4" MNPT	1/2" MNPT	1/2" MNPT	1" 150# Flg'd Common to Gauge Connection	1/2" MNTP	1/2" MNTP	1 1/2" Flg'd Common to Gauge Connection	2" 150# Flg'd Common to Gauge Connection	2" 150# Flg'd Common to Gauge Connection
Scavenger	3/8" MNPT	1/2" MNPT	1/2" MNPT	N/A	3/4" MNPT	N/A	3/4" MNPT	N/A	N/A
Jacket Inlet	3/4" FNPT	3/4" FNMT	3/4" FNPT	3/4" FNPT	1" FNPT	1" FNPT	1" FNPT	1 1/2" FNPT	1 1/2" FNPT
Jacket Outlet	1/2" FNPT	3/4" FNPT	3/4" FNPT	3/4" FNPT	1" FNPT	1" FNPT	1" FNPT	1 1/2" FNPT	1 1/2" FNPT
Gauge Connection	1/4" FNPT	1/4" FNPT	1/4" FNPT	1" 150# Flg'd Common to Air Vent	1/4" FNPT	1/4" FNPT	1 1/2" Flg'd Common to Air Vent	2" 150# Flg'd Common to Air Vent	2" 150# Flg'd Common to Air Vent

MNPT- Male National Pipe Thread

FNPT- Female National Pipe Thread

*Drain 1 1/2" MNPT on 18" Wash-Off and 18" Non-Scavenger

Common to- This port serves dual functions

