

**Filter Model**

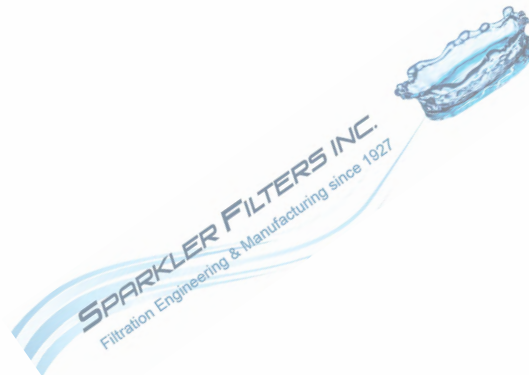
**Design Specifications**

**Port Specifications**

**Material of Construction**

**Design Options**

**Gaskets & Finishes**



# STANDARD FLOW HORIZONTAL PLATE FILTERS

Standard model specs. Number of filter plates can be custom. 44" diameter filters are available in polypropylene only. Contact us for more information.

## U.S.

CARTRIDGE	FILTER AREA FT <sup>2</sup>	CAKE CAPACITY FT <sup>3</sup>
8-3	1	0.073
8-6	2	0.146
14-S-4	3.56	0.131
14-S-7	6.23	0.229
14-D-4	3.52	0.445
18-XS-6	9.66	0.094
18-XS-11	17.82	0.172
18-XS-17	27.54	0.266
18-XS-24	38.88	0.375
18-XS-36	58.32	0.91
18-S-4	6.48	0.237
18-S-7	11.34	0.414
18-S-11	17.82	0.651
18-S-15	24.3	0.887
18-S-23	37.26	1.36
18-S-30	48.6	1.774
18-D-4	6.44	0.776
18-D-6	9.66	1.164
18-D-8	12.88	1.552
18-D-12	19.32	2.328
18-D-16	25.76	3.104
18-XD-4	6.48	1.849
18-XD-6	9.66	2.768
18-XD-8	12.88	3.69
33-XS-10	56.3	1.173
33-XS-13	73.19	1.525
33-XS-16	90.08	1.877
33-XS-21	118.23	2.463
33-XS-29	163.27	3.401
33-XS-42	236.46	4.926
33-S-7	39.41	2.46
33-S-9	50.57	3.17
33-S-11	61.93	3.87
33-S-14	78.82	4.93
33-S-19	107	6.68
33-S-28	157.64	9.85
33-D-7	39.27	5.84
33-D-9	50.49	7.5
33-D-12	67.32	10
33-D-17	95.37	14.17

## Metric S.I.

CARTRIDGE	FILTER AREA M <sup>2</sup>	CAKE CAPACITY M <sup>3</sup>
8-3	0.093	0.0021
8-6	0.186	0.0041
14-S-4	0.331	0.0037
14-S-7	0.579	0.0065
14-D-4	0.327	0.0126
18-XS-6	0.897	0.0027
18-XS-11	1.656	0.0049
18-XS-17	2.559	0.0075
18-XS-24	3.612	0.0106
18-XS-36	5.418	0.0258
18-S-4	0.602	0.0067
18-S-7	1.054	0.0117
18-S-11	1.656	0.0184
18-S-15	2.258	0.0251
18-S-23	3.462	0.0385
18-S-30	4.515	0.0502
18-D-4	0.598	0.0220
18-D-6	0.897	0.0330
18-D-8	1.197	0.0439
18-D-12	1.795	0.0659
18-D-16	2.393	0.0879
18-XD-4	0.602	0.0524
18-XD-6	0.897	0.0784
18-XD-8	1.197	0.1045
33-XS-10	5.230	0.0332
33-XS-13	6.800	0.0432
33-XS-16	8.369	0.0532
33-XS-21	10.984	0.0697
33-XS-29	15.168	0.0963
33-XS-42	21.968	0.1395
33-S-7	3.661	0.0697
33-S-9	4.698	0.0898
33-S-11	5.753	0.1096
33-S-14	7.323	0.1396
33-S-19	9.941	0.1892
33-S-28	14.645	0.2789
33-D-7	3.648	0.1654
33-D-9	4.691	0.2124
33-D-12	6.254	0.2832
33-D-17	8.860	0.4012

## **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
<b>Inlet</b>	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
<b>Outlet</b>	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
<b>Drain</b>	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
<b>Air Vent</b>	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
<b>Scavenger</b>	3/8" MNPT	1/2" MNPT	1/2" MNPT	N/A	3/4" MNPT	N/A	3/4" MNPT	N/A	N/A
<b>Jacket Inlet</b>	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
<b>Jacket Outlet</b>	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
<b>Gauge Connection</b>	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

