

Cricketfilter® with dry cake discharge

1. Introduction

The Cricketfilter® is a pressure filter with a large specific filtration area due to the shape of the filter elements. The Cricketfilter® is unique because of its patented filter elements, which allow discharge of the filter cake by back pulsing.



2. Description

The Cricketfilter® was introduced successfully into industry in 1990. The Cricketfilter® is used for direct filtration and for precoat/body-aid filtration.

Direct filtration is often possible because of the use of filter cloths. In some applications no filter aid is needed. This results in even more economical filtration.

During precoat / body-aid filtration the Cricketfilter® is first precoated with a suitable filter aid.

During filtration some filter aid is added into the feed to keep a high filtration capacity during a long cycle time. At the end of the filtration cycle the filter cake is dried with air or gas and then back pulsed. The filter cake is discharged through a large bottom valve.

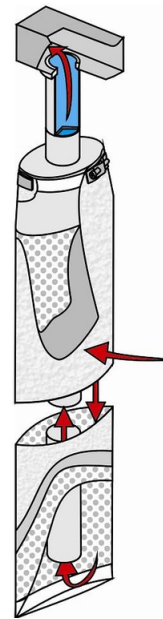
4. Standard design data

Material tank	: carbon steel or stainless steel
Material filter elements	: stainless steel
Design pressure	: -1 / 6 bar(g)
Design temperature	: -10 / 150 °C (depending on filter cloth)
Max. allowable pressure drop	: 4.5 bar
Design	: AD-2000 and others on request
Approval	: PED 97/23/EC SELO 02257 (China) GOST R (Russia) and others upon request

3. Cricketfilter® system advantages

The Cricketfilter®, which can be fully automated, produces a high filtrate clarity. Elements are mounted on internal filtrate manifolds. Cake release by backpulsing with air is done for manifolds individually, which results in an effective backpulse. No extra liquid is needed. During the short regeneration time the filter medium is cleaned intensively.

The filter element spacing and the filter cloth are selected to suit the filtration needs of the application. The filters are as standard equipped with a cover lift assembly. The Cricketfilter® itself has no rotating parts, keeping maintenance to a minimum.



4. Specifications

Model	Filter area [m ²]	Element length [mm]	Element spacing [mm]	Cake volume [dm ³]	Filter volume [dm ³]	Feed/ Drain DN	Filtrate outlet DN	Vent DN	Cake Discharge DN
Small element spacing									
800D-8.1/1000-70	8.1	1000	70	110	850	50	3 x 50	65	400
800D-12/1500-70	12	1500	70	160	1100	50	3 x 50	65	400
1000D-21/1500-70	21	1500	70	270	1790	65	4 x 65	65	500
1200D-32/1500-70	32	1500	70	410	2670	80	4 x 65	65	500
1200D-27/1500-80	27	1500	80	380	2670	80	3 x 100	100	500
1400D-40/1500-80	40	1500	80	560	3790	100	5 x 100	100	600
1600D-54/1500-80	54	1500	80	760	5200	100	5 x 150	100	600
1800D-62/1500-90	62	1500	90	1060	7010	150	5 x 150	150	600
2000D-78/1500-90	78	1500	90	1320	8870	150	6 x 150	150	600
Medium element spacing									
800D-5.8/1000-100	5.8	1000	100	135	850	50	2 x 50	50	400
800D-8.6/1500-100	8.6	1500	100	200	1100	50	2 x 50	50	400
1000D-15/1500-100	15	1500	100	345	1790	50	3 x 50	65	500
1200D-23/1500-100	23	1500	100	530	2670	80	4 x 65	65	500
1200D-18/1500-110	18	1500	110	440	2670	80	2 x 100	80	500
1400D-28/1500-110	28	1500	110	680	3790	100	4 x 100	100	600
1600D-39/1500-110	39	1500	110	930	5200	100	5 x 150	150	600
1800D-53/1500-110	53	1500	110	1270	7010	150	5 x 150	150	600
2000D-64/1500-110	64	1500	110	1540	8870	150	5 x 150	150	600
2200D-82/1500-100	82	1500	100	1720	11600	150	6 x 150	150	600
2400D-98/1500-100	98	1500	100	2060	13600	150	8 x 150	150	600
<i>Other models upon request</i>									

Notes: Dimensions are for reference only. Subject to technical alteration without prior notice.

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