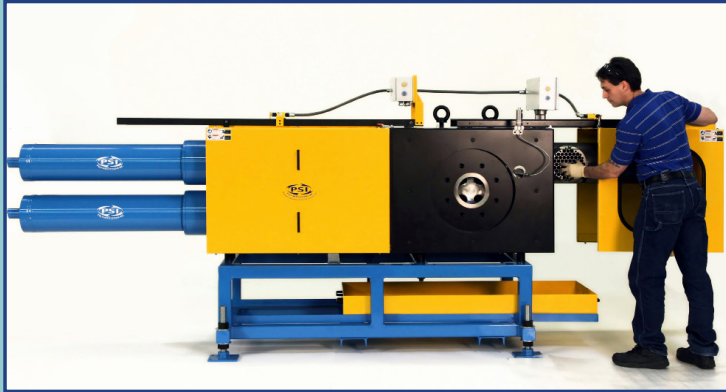




# Continuous Backflush Screen Changer (CSC/BF)

All PSI products and components are proudly designed and manufactured in the USA



Shown: CSC/BF-230

## Features

- Operating pressure to 7,500 psi {517 bar}
- Process temperatures to 650° F {343° C}
- Total filtration area up to 304 inch<sup>2</sup> {1963 cm<sup>2</sup>}
- Vertical purge simplifies discharge porting
- Breaker plate open area largest in the industry
- Field interchangeable pistons and housings
- No seals design - Guaranteed leak-free
- Automated, touch screen control

The Continuous Backflush Screen Changer (CSC/BF) is ideal for recycling and other applications where the need to extend screen life and minimize production interruptions is critical. CSC/BF screen changers achieve this by cleaning and reusing the filter packs.

CSC/BF screen changers direct the melt stream to four filtration cavities (two each in the top and bottom pistons). This result is filtration area that is typically four (4) times greater than a standard screen changer. During a backflush cycle, a full 75% of the filtration area remains online to screen contaminants.

The automated backflush function is PLC controlled and runs independently until such time as the service life of the screen expires. Backflush frequency varies from process to process; however, increased screen life of twenty-five times or more is common before a screen change is required.

## Benefits

Increased production output

Process a broader range of lower-cost, highly contaminated materials

Run higher filtration levels for value added, higher quality product

Lower peak backpressure results in less leakage flow over the screw flights for increased production yield

Save up to 95% of current screen costs

Waste material evacuation through bottom discharge to drip tray significantly reduces housekeeping

Hydraulic accumulator assisted screen change eliminates complex valves and piping for backflush

Three (3) year warranty

## Applications

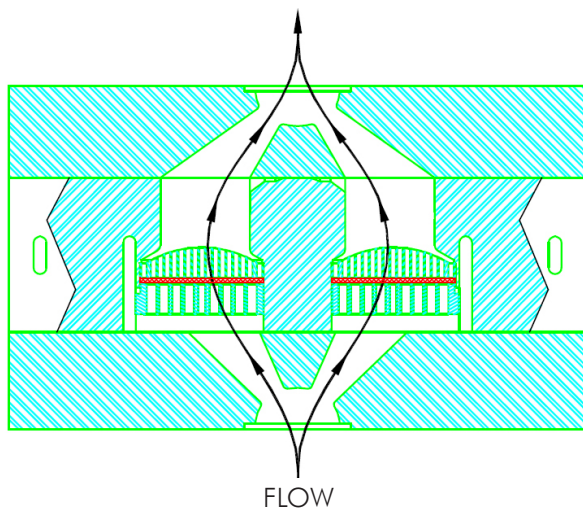
- Recycling of most all polymers
- Highly contaminated polymers
- Pelletizing
- Pipe, profile & tube
- Compounding
- Sheet
- Coating
- Wire and cable
- Textiles (fibers and nonwovens)
- EVA, hot melt adhesive and PSA
- Blown film and cast film
- Degradable materials

# Technical Data

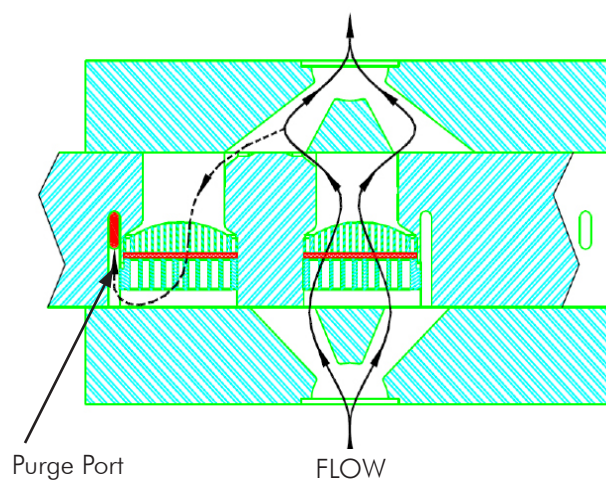
Model CSC/BF	Extruder Output lbs/hr   kg/hr	Screen Diameter		Filter Area		Weight	
		inch	mm	inch <sup>2</sup>	cm <sup>2</sup>	lbs	kg
125	1,300-3,100   600-1,400	4.93	125.3	4 x 19.09	4 x 123.16	2,125	964
148	1,750-4,400   800-2,000	5.84	148.3	4 x 26.76	4 x 172.64	3,750	1,700
176	3,100-6,600   1,400-3,000	6.94	176.3	4 x 37.83	4 x 244.06	4,750	2,155
200	3,750-8,400   1,700-3,800	7.88	200.3	4 x 48.73	4 x 314.39	6,700	3,040
230	4,850-11,500   2,200-5,200	9.07	230.3	4 x 64.53	4 x 416.32	8,975	4,071
250	10,600-19,400   4,800-8,800	9.85	250.3	4 x 76.08	4 x 490.84	11,400	5,175

For larger sizes and special applications contact PSI sales

NORMAL FILTER POSITION



BACKFLUSH POSITION 1



## OPERATION

As head pressure from blocked screen packs reaches a pre-determined setpoint, the CSC/BF PLC initiates a fully automated backflush cycle.

The first of four screen packs indexes offline, leaving a full 75% of total filter area in the melt stream to continually screen contaminants. The offline screen pack remains within the housing where a small portion of pressurized downstream polymer is directed backward through the breaker plate. This backward flow easily and efficiently lifts away contamination from the reusable screen pack.

Waste material is minimal and is purged vertically down through drain channels machined into the pistons and housing to a drip tray located beneath the machine.

Once the backflush operation is complete, the PLC brings the cleaned filter back online and sequences the remaining screen packs through the process.

Each of the two pistons contain two screen cavities for a total of four screen packs. The housing incorporates two vertical purge channels for backflushing the screen packs.

BACKFLUSH POSITION 2

