



# Continuous Screen Changer (CSC)

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



Shown: CSC-176

## Features

- Operating pressure to 10,000 psi {690 bar}
- Process temperatures up to 850°F {454°C}
- Filtration area up to 219 inch<sup>2</sup> {1413 cm<sup>2</sup>}
- All parts manufactured to ISO-9002 standards
- Breaker plate open area largest in the industry
- Field interchangeable pistons and housings
- No seals design - Guaranteed leak-free
- Automated, touch screen control

CSC Continuous Screen Changers eliminate process interruption and production losses for filter changes. The Continuous Screen Changer achieves this by splitting the melt flow between two screen bolts, each containing an on-line filter cavity.

When a screen change is required, one of the bolts is moved out of the housing while the other remains in the operating position. After the contaminated screen pack is removed and replaced the bolt is moved back into the housing to its venting stages before resuming operation. These steps are then repeated for the other bolt. PSI Continuous Screen Changers can be designed to withstand extremely high pressure applications.

## Benefits

Perform screen changes without process interruption or production losses

Minimize head pressure rise and shear stress caused by contaminated screens

Improve your production yield through reduced back pressure from the increase on-line filter area

Optimized vent geometries bleed air without impacting the process

Automated control frees the line operator to perform other high value activities

Five (5) year leak-free warranty on the body and bolts

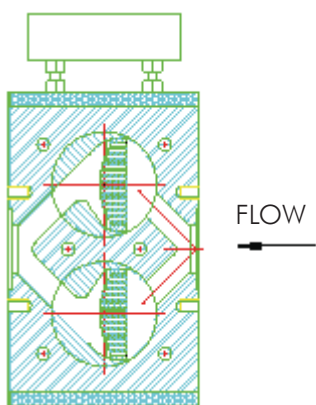
## Applications

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

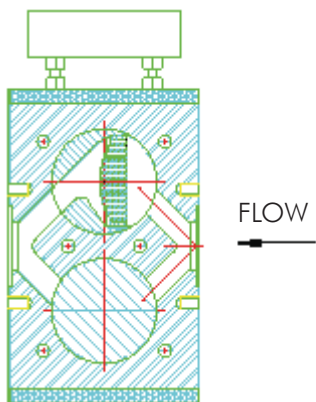
# Technical Data

Model CSC	Extruder Output lbs/hr   kg/hr	Screen Diameter in   mm	Filter Area in <sup>2</sup>   cm <sup>2</sup>	Weight lbs   kg
058	100-375   45-170	2.30   58.3	2 x 4.12   2 x 26.58	320   145
076	250-650   110-295	3.00   76.3	2 x 7.07   2 x 45.61	425   193
096	425-1,000   190-455	3.79   96.3	2 x 11.28   2 x 72.77	410   185
116	600-1,500   270-680	4.58   116.3	2 x 16.47   2 x 106.26	775   352
125	800-2,000   360-910	4.93   125.3	2 x 19.09   2 x 123.16	1,100   499
148	1,000-2,400   450-1,090	5.84   148.3	2 x 26.76   2 x 172.64	1,450   658
176	1,400-3,500   635-1,590	6.94   176.3	2 x 37.83   2 x 244.06	2,050   930
200	1,750-4,500   800-2,040	7.88   200.3	2 x 48.73   2 x 314.39	3,030   1,374
230	2,250-6,000   1,000-2,720	9.07   230.3	2 x 64.53   2 x 416.32	4,200   1,905
250	5,250-9,500   2,400-4,310	9.85   250.3	2 x 76.08   2 x 490.84	5,700   2,586
300	8,800-19,500   3,990-8,845	11.82   300.3	2 x 109.56   2 x 706.84	8,900   4,037

For larger sizes and special applications contact our PSI sales office



Normal Production Position  
Flow Through Both Screen Packs



Screen Change Position  
Flow Through One Screen Pack

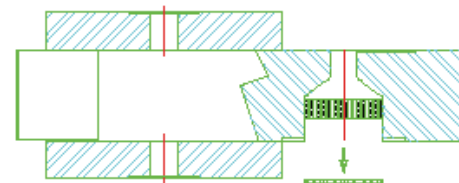
The PSI Polymer Systems Continuous Screen Changer is designed for the continuous filtration of thermoplastic materials. The melt flow is divided into two streams at the housing inlet and is conveyed through each of two breaker plates and screen packs. By means of an additional super plate, 92% of the screen surface is useable for filtration.

Each breaker plate and flow channel is designed to accommodate the full throughput of the extruder or upstream equipment. When a screen change is required, one screen bolt is moved out of the housing by activating the corresponding hydraulic cylinder.

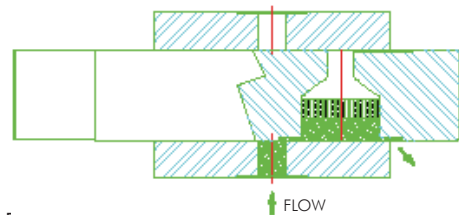
The entire flow is transitioned through one screen pack. The contaminated screen pack is then replaced with a clean one, and then the screen bolt is moved back into the housing to the venting position. After the air is removed, the bolt is moved to the operating position. This procedure is repeated with the second screen bolt.



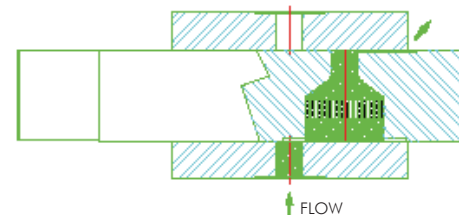
Operating Position



Screen Change Position



Front Venting Position



Back Venting Position