

CSC / BFX-DV

Constant-throughput backflush screen changer with integrated melt accumulator



The backflush screen changers are based on the sturdy and proven double-piston design. With just two hydraulic rotary-lift cylinders, the patented new development offers a most-compact design. The adjustable backflush volume and pressure permits highly effective screen cleaning and multiplies the number of cleaning cycles.

An integrated diverter valve enables to discharge the extruder start-up melt. The simple and robust design, with no additional sealing elements, ensures a reliable and leakage-free continuous operation.

Your benefits

- Constant-throughput operation – consistent product quality
- Fully automatic backflush – autonomous process adaptation
- maaxBFX controller – user-friendly operator control and visualization
- Backflush pressure and volume adjustable – highly effective screen cleaning
- Complete functionality with just two hydraulic cylinders – compact size
- Integrated startup valve – ejection of startup melt
- Optimized flow channel geometry – short melt dwell time
- Optimized screen cavity surface area – low pressure consumption
- One screen cavity per screen changer piston – easier screen changing

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Application examples

- Recycling of all thermoplastics
- R-PET bottle flakes into cast film or R-PET bottle flakes into packing bands

Extrusion, e.g.

- Compounding
- Fibers
- Films
- Profiles
- Pipes
- Sheet

Options

- Electric, liquid or steam heating
- High-temperature design
- Coated flow channels
- Stainless steel execution

Function

Patented screen changer pistons with rotary-lift motion. The automatic screen backflush is a four-step process:

Step 1

The screen changer piston moves slowly back and fills its front side melt accumulator. Flow through the screen cavity is still maintained.

Step 2

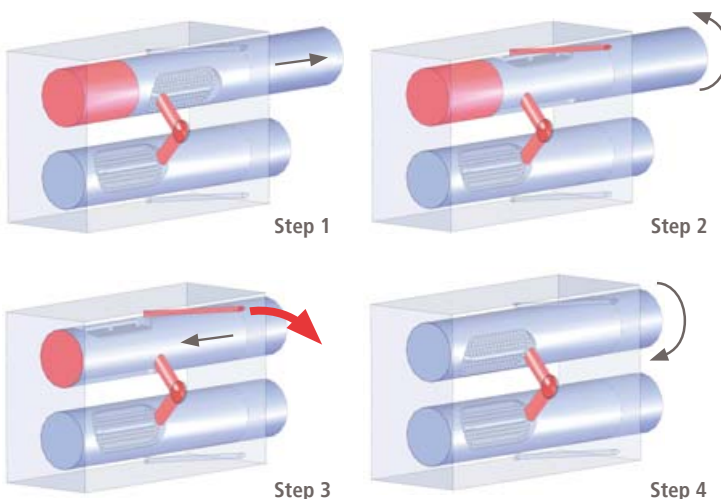
The screen changer piston rotates, closes off its inlet and outlet channels and connects the soiled screen cavity to the backflush channel.

Step 3

The piston moves forward and the stored melt is flushed backwards through the screen. The back-flush melt then is routed out of the housing.

Step 4

The piston rotates back into its operating position and remains there until the next backflush.



Application limits:

Temperature: Up to 350 °C

Operating pressure: 200 bar

Differential pressure: Up to 100 bar

Size	Throughput* (kg/h)	Screen dimensions [mm]	Filter area [cm ²]
096	700	76 x 185	2 x 128
116	1,100	96 x 235	2 x 206
125	1,600	116 x 283	2 x 299
148	1,900	125 x 305	2 x 348
176	2,700	148 x 360	2 x 486
200	3,800	176 x 430	2 x 690
230	5,500	200 x 490	2 x 995
250	6,500	230 x 560	2 x 1174
270	8,100	250 x 610	2 x 1473
300	8,900	270 x 660	2 x 1625

* at melt viscosity 1,000 Pas and flux rate 2,75 Kg/h-cm², dependent on filtration grade and degree of soiling.