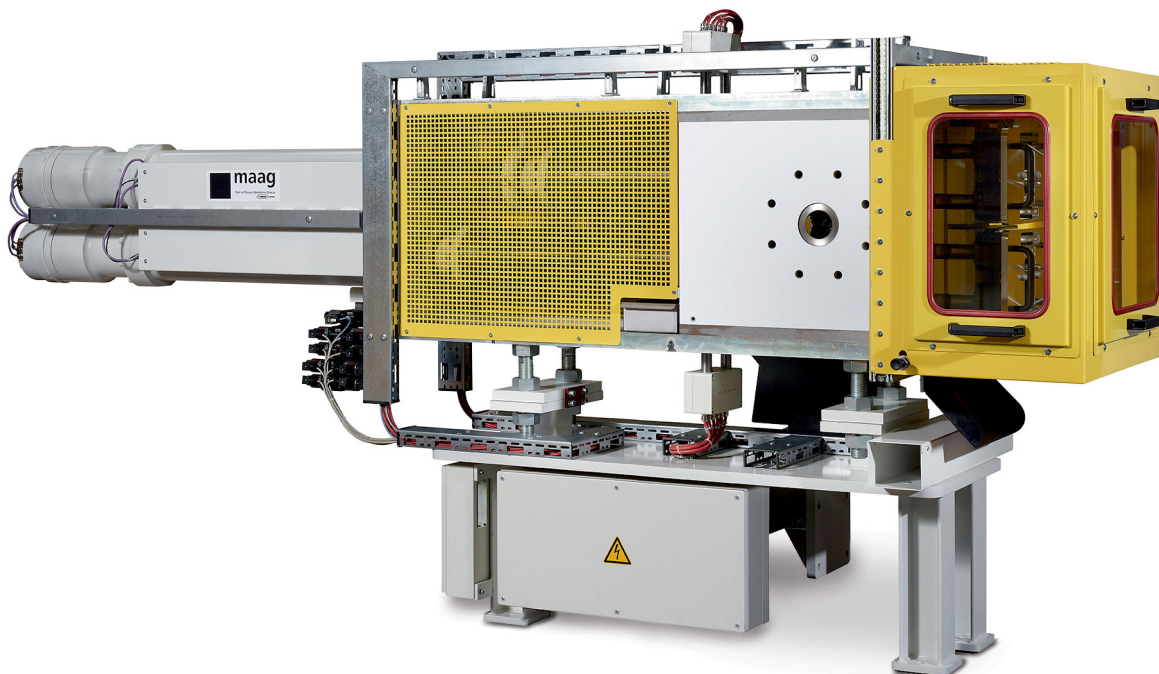




# CSC / BFX-DV

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 up to 450°C
- Flow channels chrome or nickel plated or with special coating
- 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

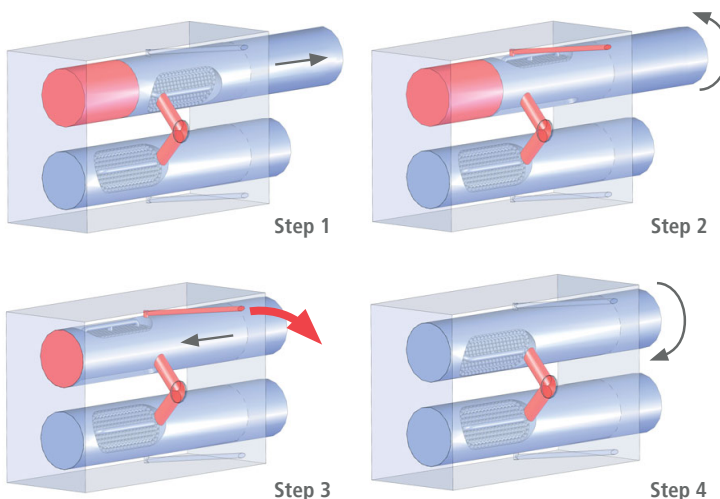
The screen changer piston rotates, closes off its inlet and outlet channels and connects the soiled screen cavity to the backflush channel.

### 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) at flux rate approx. 2 kg/h/cm <sup>2</sup>	Screen dimensions [mm]	Filter area [cm <sup>2</sup> ]
096	500	76 x 185	2 x 128
116	800	96 x 235	2 x 206
125	1,200	116 x 283	2 x 299
148	1,400	125 x 305	2 x 348
176	1,900	148 x 360	2 x 486
200	2,800	176 x 430	2 x 690
230	4,000	200 x 490	2 x 995
250	4,700	230 x 560	2 x 1174
270	5,900	250 x 610	2 x 1473
300	6,500	270 x 660	2 x 1625

\* Dependent on viscosity, filtration grade and degree of soiling.