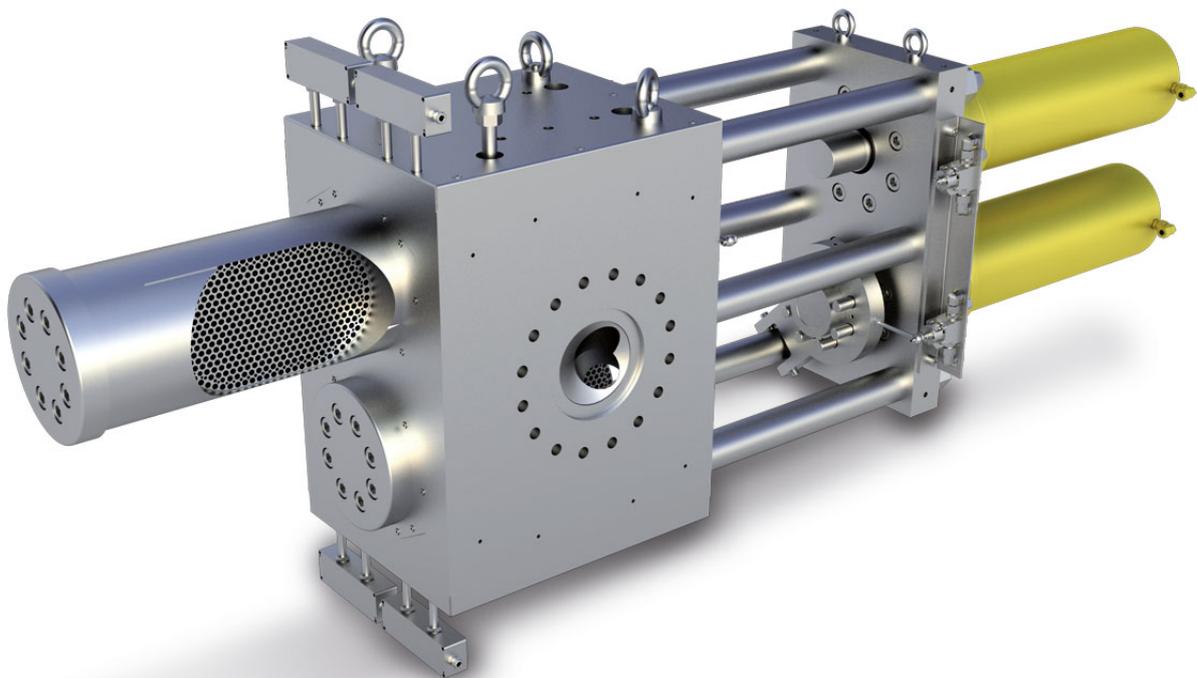




# CSC-PE

## Screen area-optimized continuous screen changer



maag pump systems area-optimized continuous screen changers are based on the proven double-piston design. Thanks to the optimized oval-shaped screen cavity the available screen area relative to the piston diameter is maximized resulting in an extreme compact design of these proven machines. With its minimized residence times of the polymer melt and the significantly lower heating requirement due to its compact design, the CSC-PE from maag stands for maximum efficiency and guarantees reliable and leak-free filtration of polymers for many years.

### Your benefits

- Cost-efficient screen mesh
- Simple operation with uncomplicated screen change
- High operational reliability
- Short material residence time
- Leak-free mode of operation
- Low pressure consumption
- Flow channel geometry without any dead spots

# CSC-PE

## Screen area-optimized continuous screen changer

### A range of typical applications

- Flat films
- Foam films
- Blown films
- Plates
- Pipes
- Profiles
- Blow mouldings
- Fibres
- Granulation
- Recycling
- Compounding

### Application limits:

|                               |            |
|-------------------------------|------------|
| <b>Temperature:</b>           | To 350 °C  |
| <b>Operating pressure:</b>    | 350 bar    |
| <b>Pressure differential:</b> | To 100 bar |



### Accessories

- Connection adapters
- Support carriages
- Control systems
- Breaker Plates
- Protective devices

### Additional CSC designs with

- Backflush option
- Candle filters
- Diverter valve

### Technical specifications:

|                         |   |
|-------------------------|---|
| <b>Screen diameter:</b> | 125 mm to 270 mm                                    |
| <b>Filtration area:</b> | 406 cm <sup>2</sup> to 1,888 cm <sup>2</sup>        |
| <b>Mounting:</b>        | Compact mounting dimensions, all positions possible |
| <b>Technology:</b>      | Proven sealless double-piston design                |

On the inlet side, the melt stream is divided into two sub-streams to flow through one screen cavity which is equipped with one breaker plate and application-specific filter packs. After flowing through the screen cavities the filtered sub-streams are combined to one melt stream and leave the housing.

To change the screens, each piston is moved out of the housing consecutively by means of a hydraulic cylinder wherein the screen cavity remains in production position. The screen meshes which are now accessible from the outside are exchanged manually and the screen piston is moved back into the production position. During this procedure, the screen cavity is flooded and degassed in a predetermined piston position in such a way that air cannot enter the melt stream. During the quick screen change procedure, the melt continues to flow through the other screen cavity, thus ensuring the system's process-constant mode of operation.

| Size | Throughput*<br>[kg/h] | Screen dimensions<br>[mm] | Filtration area<br>[cm <sup>2</sup> ] |
|------|-----------------------|---------------------------|---------------------------------------|
| 096  | 850                   | 96 x 159                  | 2 x 133                               |
| 116  | 1,200                 | 116 x 190                 | 2 x 191                               |
| 125  | 1,400                 | 125 x 206                 | 2 x 224                               |
| 148  | 2,000                 | 148 x 244                 | 2 x 314                               |
| 176  | 2,850                 | 176 x 290                 | 2 x 444                               |
| 200  | 3,700                 | 200 x 330                 | 2 x 574                               |
| 230  | 4,800                 | 230 x 379                 | 2 x 758                               |
| 250  | 8,200                 | 250 x 412                 | 2 x 896                               |
| 270  | 12,000                | 270 x 445                 | 2 x 1,045                             |
| 300  | 15,000                | 300 x 495                 | 2 x 1,292                             |
| 340  | 20,000                | 340 x 560                 | 2 x 1,656                             |
| 400  | 25,000                | 400 x 560                 | 2 x 1,896                             |

\* Depending on viscosity, filtration size and degree of contamination.

### Options

- Oil, liquid or steam-heated
- High-pressure version up to 1,000 bar
- High-temperature version up to 450 °C
- Chromed, nickel-plated or specially-coated flow channels
- Stainless steel design
- High-pressure breaker plate, max. pressure differential 300 bar