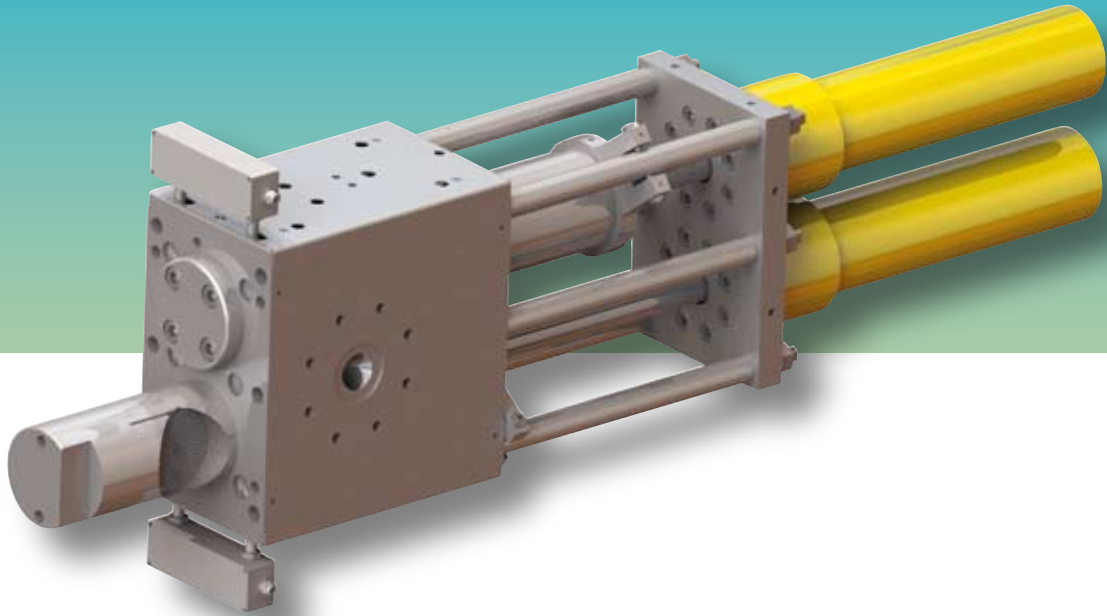


CSC-DV



A range of typical applications:

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

Continuous with integrated diverter valve

The Maag Pump Systems screen changer with Integrated Diverter Valve is based on the proven double-piston design which requires no additional seals and uses one of the pistons for the start-up function. This design is ideal for processes in which the start-up melt (e.g. in twin screw extruders) or changed material has to be discharged.

On the inlet side, rheologically optimised flow channels divide and distribute the melt stream to flow into the screen cavities at equal parts. When the production line is started, one of the pistons closes its flow channel inside the filter housing while the other one remains in the start-up position. In this way, the start-up melt is directed outside the screen changer through the housing bore, until the molten plastic has reached the required production quality. The two pistons are then moved into their production position and the melt is filtered.

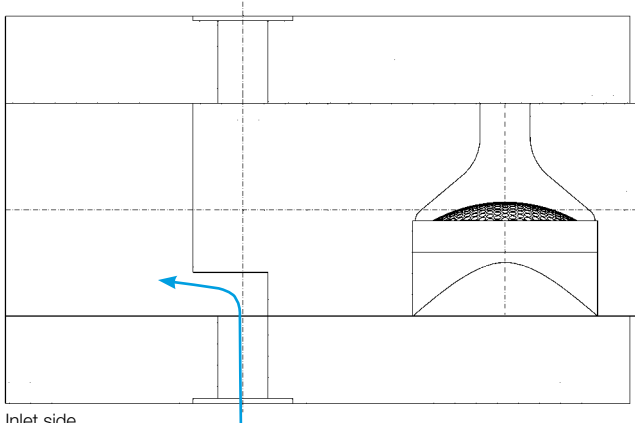
To change the screens, each piston is moved out of the housing consecutively by means of a hydraulic cylinder. Once the screens are exchanged, the piston returns to its production position in the same way. A simple and effective screen venting process prevents air from being trapped in the melt flow. During the quick screen change procedure, the melt continues to flow through the other piston, thus ensuring the process-constant operating mode of the system.

- Cost-efficient start-up function
- 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

| Size | Throughput* [kg/h] | Screen diameter [mm] | Filtration area [cm ²] |
|------|-----------------------|-------------------------|---------------------------------------|
| 030 | 45 | 2x30.0 | 2x7 |
| 046 | 110 | 2x46.3 | 2x17 |
| 058 | 170 | 2x58.3 | 2x27 |
| 076 | 300 | 2x76.3 | 2x45 |
| 096 | 470 | 2x96.3 | 2x72 |
| 116 | 680 | 2x116.3 | 2x106 |
| 125 | 800 | 2x125.0 | 2x123 |
| 140 | 1,000 | 2x140.3 | 2x155 |
| 148 | 1,100 | 2x148.3 | 2x173 |
| 176 | 1,600 | 2x176.3 | 2x244 |
| 200 | 2,000 | 2x200.0 | 2x314 |
| 230 | 2,700 | 2x230.3 | 2x416 |
| 250 | 4,500 | 2x250.0 | 2x491 |
| 270 | 6,500 | 2x270.0 | 2x572 |
| 300 | 8,000 | 2x300.0 | 2x707 |
| 340 | 18,000 | 2x340.0 | 2x908 |
| 400 | 30,000 | 2x400.0 | 2x1,256 |
| 508 | 50,000 | 2x508.0 | 2x2,026 |

*depending on viscosity, filtration size and degree of contamination

Outlet side



Inlet side

Pistons in start-up (divert) position, start-up melt is diverted

Application limits:

Temperature: to 350 °C

Operating pressure: 500 bar

Pressure differential: to 100 bar

Technical specifications:

Screen diameter: 30 to 508 mm

Filtration area: 14 to 4,052 cm²

Mounting: compact mounting dimensions,
all positions possible

Technology: proven sealless double-piston
design

Accessories:

- Connection adapter
- Support carriages
- Controls
- Breaker Plates
- Protective devices
- High-pressure screen, max. differential pressure 300 bar

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

Additional CSC designs with:

- Backflush option
- Candle filters
- Double cavities

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