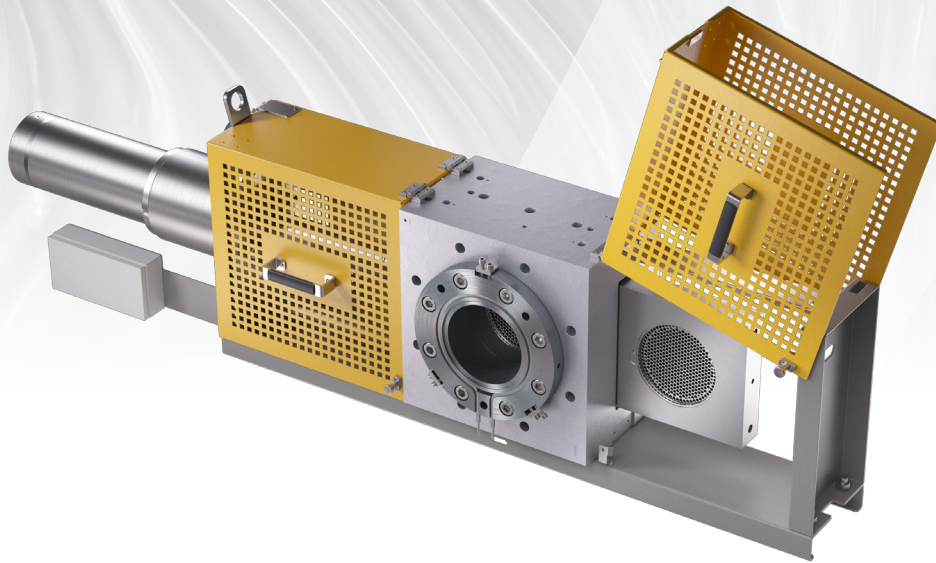


PUMP & FILTRATION SYSTEMS >



FSC D4

Flat type Screen Changer



MAAG Flat type screen changer are cost efficient filtration system for safety and quality filtration. Directly mounted in front of extruder or a melt pump for handling of sensitive polymers where shortest residence time is needed.

The filters are equipped with a pressure-adaptive sealing system as a standard. Thanks to this sealing system, the required sealing forces are adjusted to the actual melt pressure automatically. The narrow design is especially suited for being used in applications with thermally sensitive materials. Their solid and robust construction ensures a reliable and leak-free filtration of molten polymers for many years.

Your benefits

- Simple operation and uncomplicated screen changing
- High operational reliability
- Short material residence time
- Leak-free mode of operation
- Low pressure consumption
- Flow channel geometry without any dead spots
- Everytime a cavity in standby mode
- Slow and fast actuation of sliding plate possible

FSC D4

Flat type Screen Changer

A range of typical applications

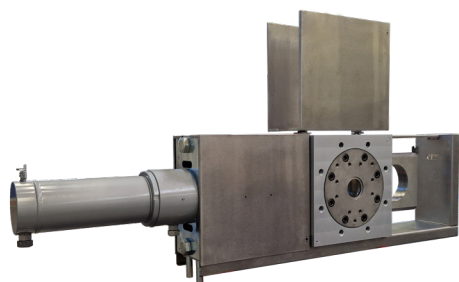
- Flat films
- Foam films
- Blown films
- Plates
- Pipes
- Profiles
- Blown mouldings
- Fibres
- Pelletizing
- Edge off-cut recycling
- Compounding

Accessories

- Connection adapters
- Support carriages
- Breaker plates
- Protective devices
- Safety filtration

Options

- Coated flow channels
- Stainless steel construction
- High-pressure breaker plate



Technical specifications:

Screen diameter:	65 mm to 305 mm
Filtration area:	33 cm ² to 731 cm ²
Mounting:	horizontal, vertical and under angle
Technology:	Bolt through possible

Application limits:

Temperature:	up to 350 °C
Operating pressure:	700 bar
Pressure differential:	up to 100 bar (200 bar optional)

On the inlet side, the rheologically optimized flow channel directs the melt flow into the screen cavity, where the breaker plate is located. The molten plastic material flows through the breaker plate which is equipped with screen mesh selected according to the required filtration rate. Downstream of the screen, the cleaned melt stream leaves the filter housing through a very short straight flow channel.

To change the screen, the sliding plate move from one end position to the other and transport out of the housing and at the same time, the clean screen on the outside is switched into the production position. The hydraulically operated screen changer reliably guarantees the protection of melt pumps and mold gaps against damage and dirt. When using a hydraulic accumulator (optional) the changeover takes only a fraction of a second. The melt flow will be interrupted during the traversing time of the slide plate. When selecting the optimal hydraulic accumulator processing may be continued without shutting down the pelletizer. After the screen change, rapped air escapes at the subsequent device.

Size D4	Filtration area [cm ²]	Design melt pressure	Delta p	Connection threads	Bolt through connection
65	33	700	100	6 x M16	4 x M20
80	50	700	100	8 x M16	4 x M24
100	78	700	100	8 x M20	4 x M30
135	143	500	100	8 x M24	4 x M30
150	176	500	100	8 x M24	8 x M30
180	254	500	100	8 x M30	X
205	330	350	100	8 x M30	X
255	510	350	100	12 x M30	X
305	731	350	100	12 x M36	X

New size dimensions allows for most extruders in screws changes, pulled through the filter without disassembling!

