

Breaker Plate Assembly TSA

for discontinuous filtration



- Cost effective filtration device
- Low pressure consumption
- Highly adaptable

The TSA breaker plate assembly is a simple and cost effective filtration device with a single screen chamber. A quick connect C-Clamp allows for easy manual screen changes.

It is mainly used for materials with low contamination levels, for lab applications or as a protection filter for melt pumps.

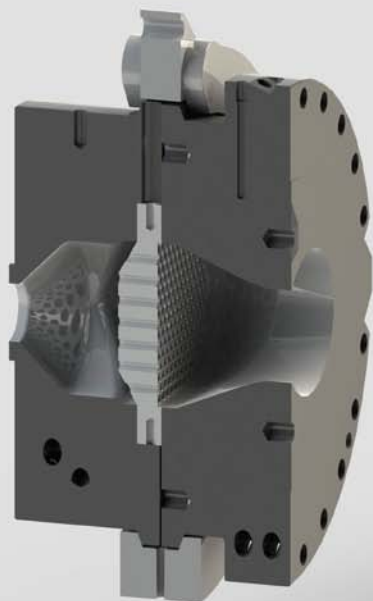
Benefits:

- Easy and reliable operation
- Short flow channel geometry
- Low pressure consumption
- Highly adaptable

Options:

- Oil, steam or electrical heating
- Special coating for abrasive/corrosive applications
- Stainless steel design
- Hazardous area design

Breaker Plate Assembly TSA



Functional Principle:

A rheological optimized flow channel leads the incoming polymer melt stream into a screen cavity. Inside the screen cavity a breaker plate is equipped with a filtration screen pack suitable for the required filtration fineness.

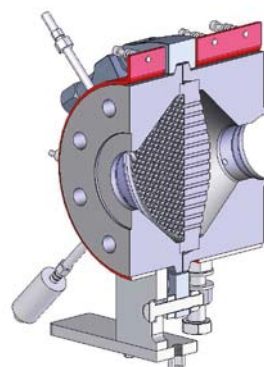
When a screen change becomes necessary, both adapter parts can be opened via the C-Clamp quick connector. The TSA is suitable for a variety of different extrusion applications.

Design Features:

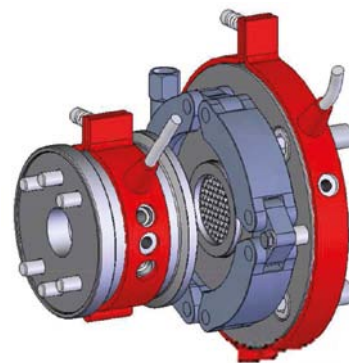
- Operating limits: 350 bar/350° C
- Differential pressure: up to 100 bar

Applications:

- Extrusion
- Melt pump protection
- Low contaminate applications



Start-up



Screen Change

Breaker Plate Assembly TSA >>> Data based on: Polyolefin's, Filter fineness 200 µm

Model	Filter Area	Extruder Throughput
TSA 30	1 x 7 cm ²	15 kg/h
TSA 40	1 x 13 cm ²	40 kg/h
TSA 60	1 x 28 cm ²	100 kg/h
TSA 80	1 x 50 cm ²	210 kg/h
TSA 100	1 x 79 cm ²	270 kg/h
TSA 120	1 x 113 cm ²	390 kg/h
TSA 140	1 x 154 cm ²	500 kg/h
TSA 160	1 x 201 cm ²	700 kg/h
TSA 180	1 x 254 cm ²	830 kg/h
TSA 200	1 x 314 cm ²	1,000 kg/h
TSA 220	1 x 380 cm ²	1,300 kg/h
TSA 240	1 x 452 cm ²	1,900 kg/h