

# BKG<sup>®</sup> NorCon<sup>™</sup> K-SWE

## Double Piston Screen Changer for Continuous Operation

- Normal operation:** 2 screen cavities (100%) in the process
- Backflush:** Not applicable
- Screen change:** During a screen change, 1 of the screen cavities (50%) is removed from the process, allowing for 1 of the screen cavities (50%) to remain in operation

### Applications

The K-SWE is suitable for almost all processes and materials. It can be used for polymerization, compounding, film, pipe, sheet, and pelletizing processes. It enables process runs to continue without any system shutdowns while changing the screen.



### Benefits

- Process remains in operation during a screen change, resulting in no disruptions to the melt flow
- Easy adjustment of the hydraulic device via the hand control or solenoid valves
- Optional fully automated venting procedure (via PLC) reduces operator intervention

### Features

- Optimized flow channels utilizing rheological data
- Wear-free metallic sealing system - no additional seal required
- Easily integrated into the line controls
- Includes complete guard system, offering maximized safety for the operators

### Technical Information

<b>Machine Type/Size</b>	K-SWE-30 – K-SWE-250
<b>Screen Dimensions</b>	Ø 30 – Ø 230 mm (1.18 – 9.05 in)
<b>Throughput</b>	5 – 2,600 kg/h (11 – 5732 lb/hr)
<b>Screen Area</b>	14 – 833 cm <sup>2</sup> (2.2 – 129.115 in <sup>2</sup> )
<b>Temperature</b>	Up to 450°C (842°F)
<b>Heating</b>	Electric, Fluid, or Steam
<b>Max. Operating Pressure</b>	From size 30 to size 200: Max. 500 bar (7,252 psi) Size 250: Max. 300 bar (4,351 psi)
<b>Differential Pressure</b>	Max. 150 bar (2,176 psi)

\*These throughput values are only estimates. The actual rates are dependent upon the viscosity of the material, filtration fineness, application, and the contamination level of the material; therefore, the values may differ depending on the actual process parameters.

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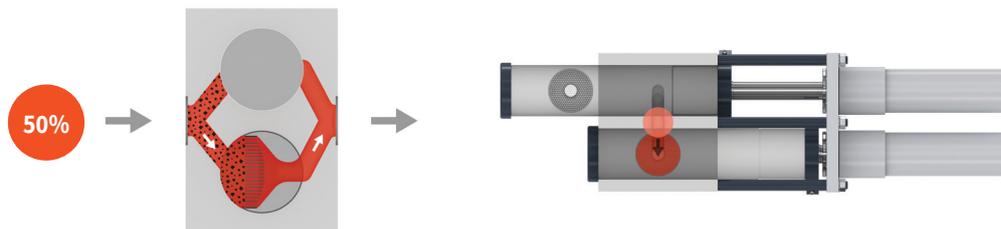
## Double Piston Screen Changer for Continuous Operation

### Normal operation



The heated steel housing allows for two screen bearing pistons, which contain two screen cavities. The melt flow is subdivided into two flow paths and is directed through each of the two screen cavities.

### Screen change



The exchange of the screens is triggered when reaching a chosen differential pressure ( $\Delta p$ ). The screen piston with the changeable filter element is moved out of the housing to allow the screen pack of the piston to be removed and replaced with a new filter element. During the screen change, the screen cavity of the other piston remains in the production position and the melt flow is not interrupted. Fifty percent (50%) of the filter area is still used for filtration. Due to a special venting procedure, no air can enter the process after the screen exchange.

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