

BKG[®] NorCon[™] LK-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 LK-SWE is suitable for almost all processes and materials. It can be used for polymerization, compounding, film, pipe, sheet and pelletizing processes. More specifically, all polyolefins and a variety of other temperature stable polymers (e.g. ABS, PS, SAN) and preferably for systems operating at higher throughput rates. The LK-SWE enables process runs to continue without any system shutdowns while changing a 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
- Large filter area in a comparably small housing due to oval-shaped screens

Features

- Oval-shaped screens
- 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

Machine Type/Size	LK-SWE-180 - LK-SWE-1600
Screen Dimensions	125 x 170 mm - 340 x 550 mm (4.92 x 6.69 in - 13.39 x 21.65 in)
Throughput	420 - 30,000 kg / h (926 - 66,139 lb / hr)
Screen Area	358 - 3,242 cm ² (55.5 - 502.5 in ²)
Temperature	Up to 450°C (842°F)
Heating	Electric, Fluid, or Steam
Max. Operating Pressure	From size 180 to size 515: Max. 500 bar (7,252 psi) Size 600 and up: Max. 300 bar (4,351 psi)
Differential Pressure	Max. 150 bar (2,176 psi)

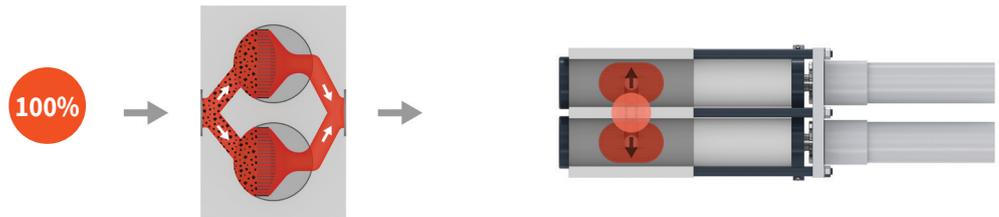
*These throughput values are only estimates. The actual rates are dependent upon the viscosity of the material, filtration fineness, application, and the contamination level of the material; therefore, the values may differ depending on the actual process parameters.



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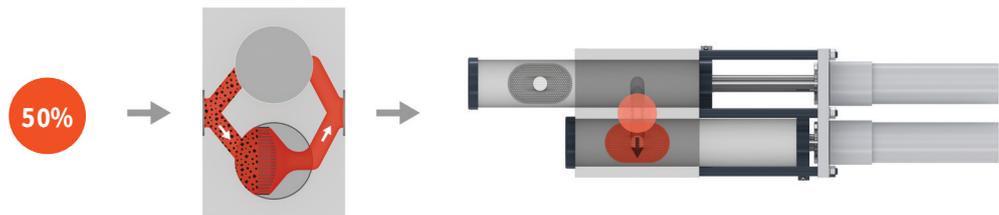
Double Piston Screen Changer for Continuous Operation

Normal operation



The heated steel housing allows for two screen bearing pistons, which contain two screen cavities per piston. 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 (Δp). The screen piston with the changeable filter element is moved out of the housing to allow for 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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