

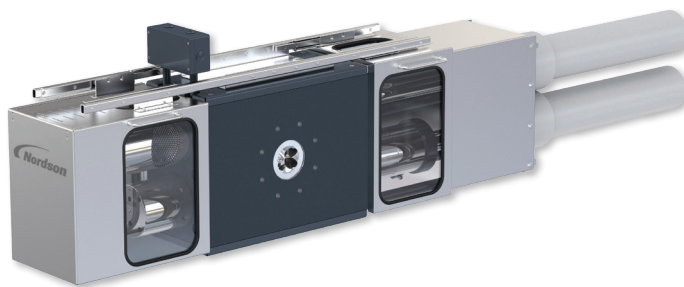
BKG® NorCon™ K – SWE – 4K – 75

Double Piston Screen Changer for Continuous Operation

- Normal operation:** 4 screen cavities (100%) in the process
- Backflush:** Not applicable
- Screen change:** During a screen change, 1 of the screen cavities (25%) is removed from the process, allowing for 3 of the screen cavities (75%) to remain in operation

Applications

The K-SWE-4K-75 is suitable for almost all processes and materials. It can be used in pressure constant processes (e.g. strap, film, fiber, strand pelletizing) and enables process runs to continue without any system shutdowns while changing the screen.



Benefits

- The patented technology ensures a stable pressure and process consistency since 3 of the 4 screens remain in production at all times
- 4 screens enable a large filter area in a compact and small housing
- Fully automated venting procedure (via PLC) reduces the operator's intervention

Features

- During the process step “screen change,” 3 of 4 screens remain in operation at all times (patented 75% technology)
- 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	K-SWE-100-4K-75/ST – K-SWE-380-4K-75/ST
Screen Dimensions	Ø76 – Ø340 mm (2.99 – 13.39 in)
Throughput	160 – 12,500 kg/h (353 – 27,558 lb/hr)
Screen Area	180 – 3,632 cm² (27.9 – 563 in²)
Temperature	Up to 450°C (842°F)
Heating	Electric, Fluid, or Steam
Max. Operating Pressure	From size 100 to size 200: Max. 500 bar (7,252 psi) Size 250 and up: Max. 300 bar (4,351 psi)
Differential Pressure	Max. 150 bar (2,176 psi)

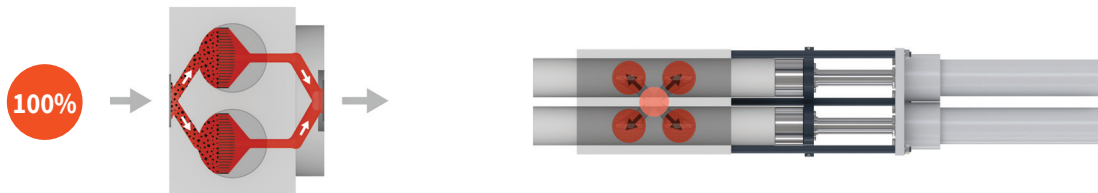
*These throughput values are only estimates. The actual rates are dependent upon the viscosity of the material, filtration fineness, application, and the contamination level of the material; therefore, the values may differ depending on the actual process parameters.



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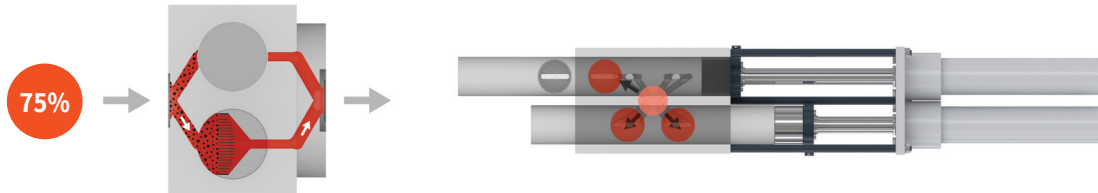
Double Piston Screen Changer for Continuous Operation

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 four flow paths and is directed through each of the four screen cavities.

Screen change



The exchange of the screens is triggered when reaching a chosen differential pressure (Δp). The screen bearing 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 second screen cavity of this piston and the screen cavities of the other piston remain in the production position and the melt flow is not interrupted. Seventy-five percent (75%) 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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