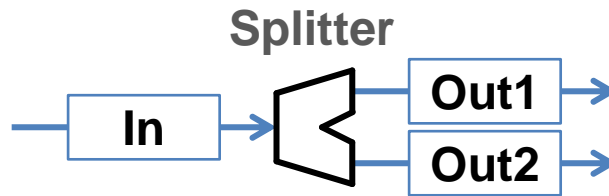# Splitter

General description

Splitter

Divides the input stream *In* into two output streams *Out1* and *Out2*. Both output streams are defined for the same set of time points as the input stream. The splitting of input stream into more than two fractions can be done by sequential connection of several splitter units.

The parameters of output stream are calculated as:

$$\dot{m}_{out1} = K_{splitt} \cdot \dot{m}_{in}$$

$$\dot{m}_{out2} = \left(1 - K_{splitt}\right) \cdot \dot{m}_{in}$$

- $\dot{m}_{out1}$ and $\dot{m}_{out2}$ are mass flows of output streams
- K_{splitt} is the splitting factor

All other stream parameters are copied to the output streams from the input without modification.

Unit parameters

Name	Symbol	Description	Units	Valid values
KSplitt	K_{splitt}	Splitting factor	[-]	0 ≤ KSplitt ≤ 1

Application examples

- *Example Flowsheets/Units/Splitter.dlfw*
- *Example Flowsheets/Processes/Comminution Process.dlfw*