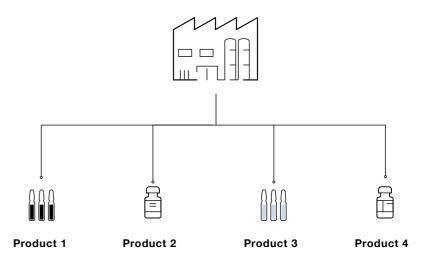


# Chromatography without mixing of media



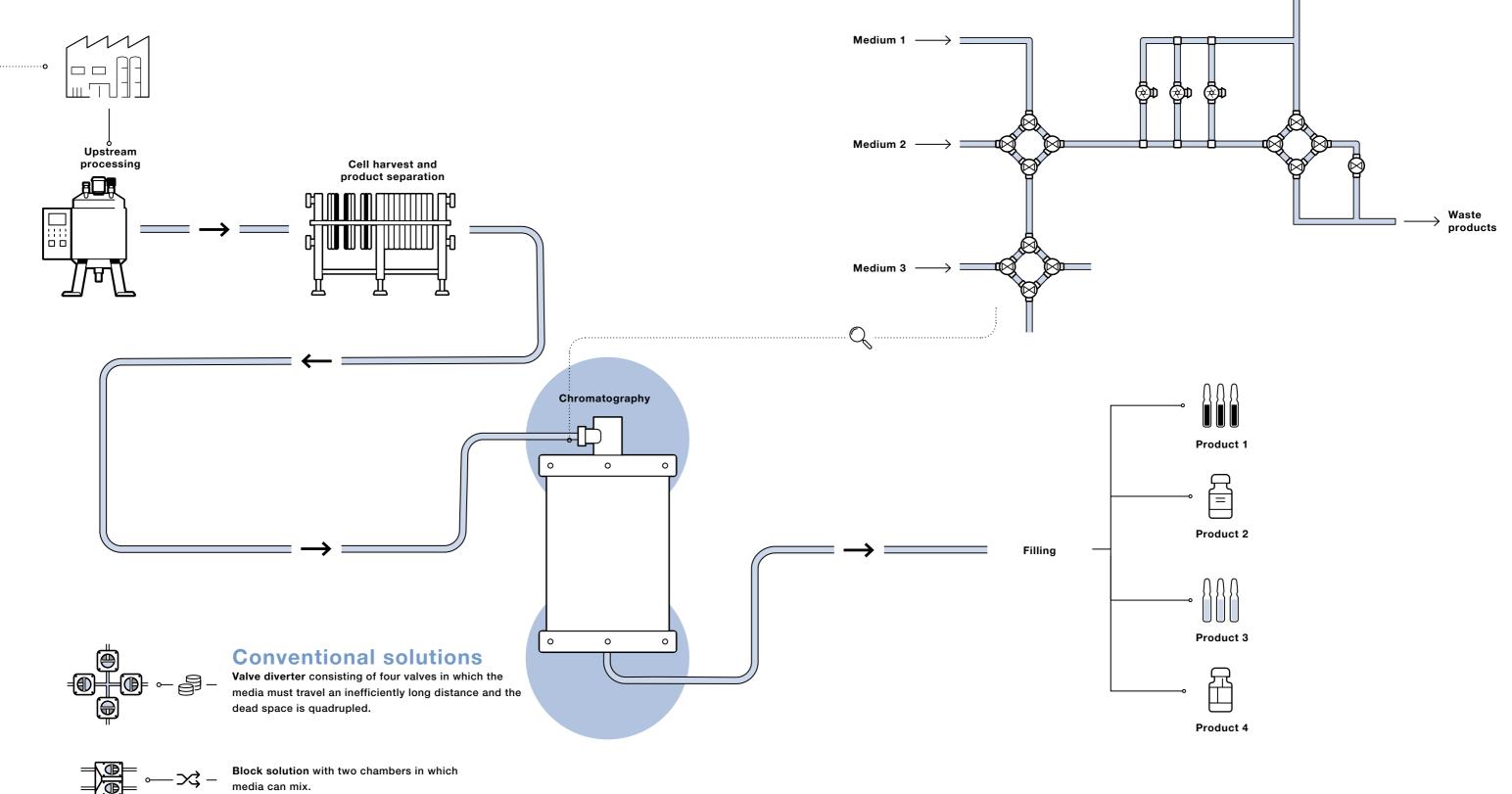
Chromatography efficiency / The objective of the chromatography process is clear: At the end, the maximum amount of the sometimes extremely expensive end product shall be extracted. Mixing must be avoided at all costs. Therefore, you need a system that is easy to rinse and offers an absolute minimum of dead space. Since the demands on product quantity and quality are constantly increasing, plant availability and efficiency must be high. Valves with minimum dead space that accelerate the process and save time during repair and maintenance activities make a valuable contribution. Since time is money.

A biopharmaceutical company constantly produces high-quality end products – safely and cost efficiently. Avoiding the contamination or mixing of media is the top priority. The demands placed on fluidic systems and machines are correspondingly high.



Do you want to optimise your chromatography process and ensure the quality of the end product? Discover more on the following pages.

/ Precise media separation / Optimise key steps in the chromatography process with detailed solutions, thereby improving product quality and plant efficiency.

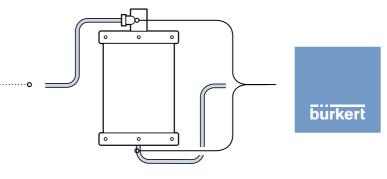


and out of the chromatography column - precisely and efficiently.

/ Media separation with Robolux / Designed for the control of ultra-pure, sterile and aseptic media, the Robolux Multiway Diaphragm Valve offers the ideal solution for chromatography. The special feature of the patented Robolux technology: The diaphragm actuates two valve seats at the same time. This avoids dead spaces, reduces the flow volume while saving time and money.



Robolux Type 2036



### Minimising contamination



Thanks to the Robolux's minimum dead volume and optimised fluidic design, the chromatography system can be cleaned quickly and without residue, even with aggressive CIP media. There is no mixing of media. This helps to prevent follow-up costs and contamination and ensures the quality of the end products.

### Maximum extraction of the end product



In order for you to be able to extract the maximum possible amount of the sometimes extremely expensive end product at the end of the chromatography process, mixing must be prevented. You save money through the safe and efficient distribution, extraction and emptying of the columns.

# Optimum use of production space



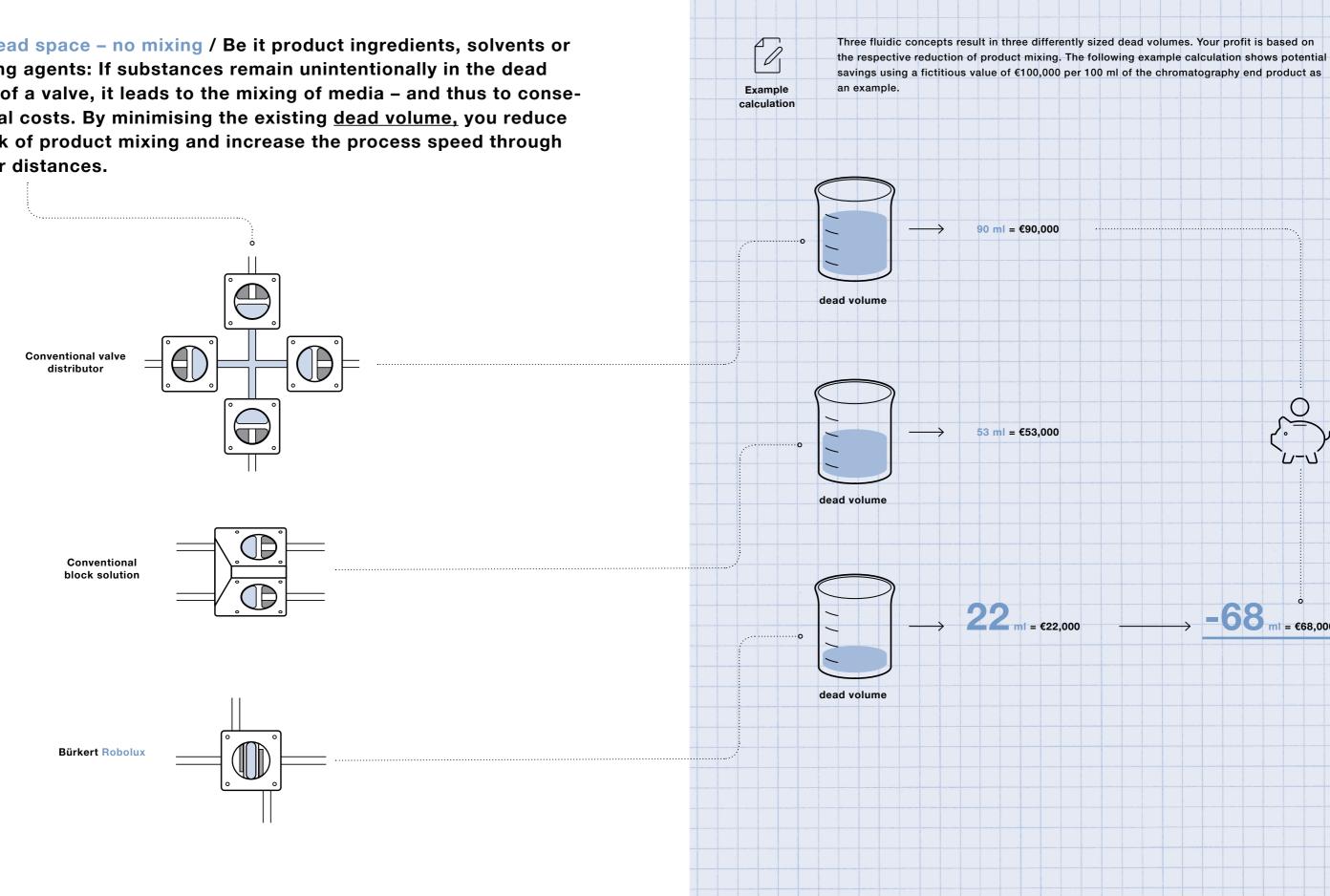
The extremely compact design provides operators with significantly more space, which speeds up maintenance and repair activities. By switching from conventional solutions to the compact Robolux, you increase your output and thus your plant efficiency – without the need for extra space.

### Reducing downtime



The faster you put the plant back into operation after maintenance, the more efficient your capacity utilisation will be. Since Robolux has two valve seats actuated by one diaphragm, routine diaphragm change takes only half as long as with, e.g., a conventional solution.

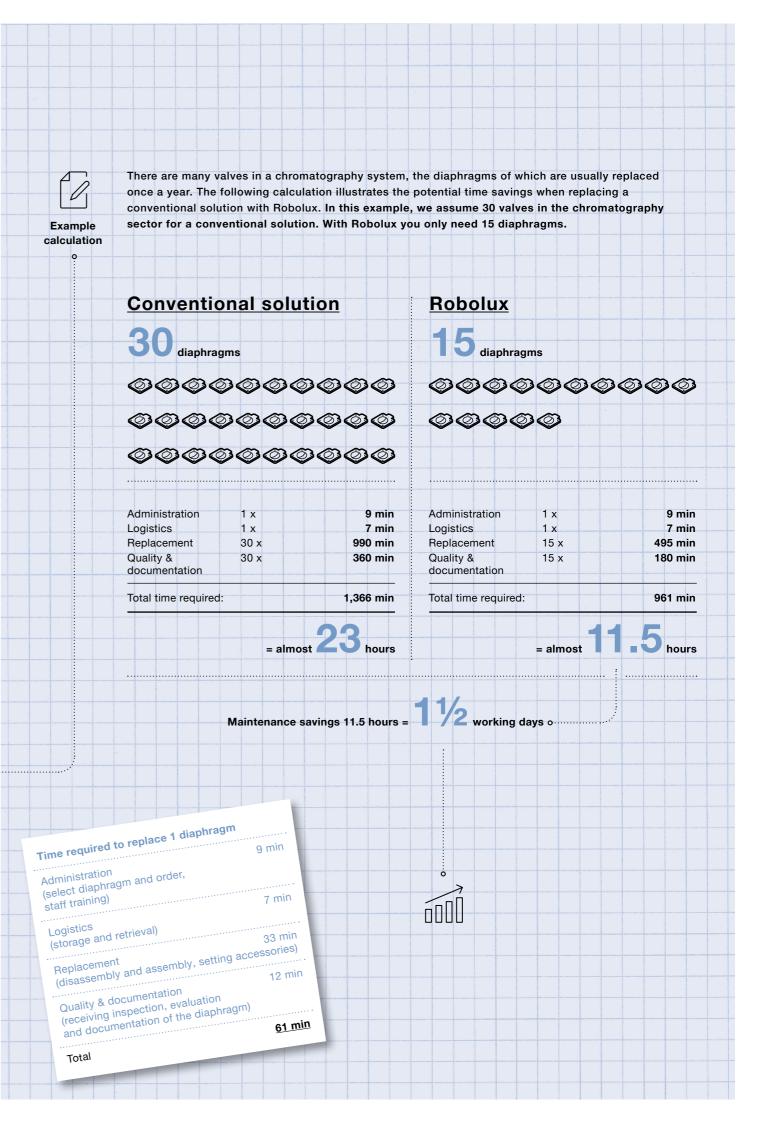
/ No dead space - no mixing / Be it product ingredients, solvents or cleaning agents: If substances remain unintentionally in the dead space of a valve, it leads to the mixing of media - and thus to consequential costs. By minimising the existing dead volume, you reduce the risk of product mixing and increase the process speed through shorter distances.



/ Minimise downtime, increase availability / In contrast to conventional valve solutions with two diaphragms, Robolux works with only one diaphragm. This saves money on spare parts and time on <u>replacement and maintenance activities</u>.



Robolux Sectional model





# **Media separation**

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