

SÜDMO INTELLITANK MATRIX COMPLETE

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COMPACT TANK PIPING

CHALLENGE

In practice, conventional tank piping systems such as valve manifolds or pipe fences usually prove detrimental to product quality because of the tank outlet and the long, horizontal stub line and connection to the downstream process.

Food and beverage producers face the ongoing challenge to meet procedure acceptance criteria with validated process engineering. For example, the brewing process can be negatively impacted by long horizontal tank connections in several ways:

- There is no exchange of substances and no connection with the tank in the fermentation process. Negative temperature and an undefined fermentation process directly impact the yeast cells and thus the beer's quality.
- Longer lines require an extensive CIP routine for tank and pipe cleaning, which increase operating costs. Existing stub lines and dead space in the tank outlet increase the microbiological risks.
- High product and mixing zone losses are the result of product discharge from the long tank outlet pipes.
- The extensive piping and additional valve requirements, combined with process automation, increase investment costs.

SOLUTION

Pentair Südmö's IntelliTank Matrix Complete offers a tank connection system that meets the highest requirements for efficient and economic procedures in brewing, beverage and food manufacturing.

Our system design integrates the valves directly into the process tank, which is significant to ensure high product quality. The IntelliTank Matrix consists primarily of proven components from our DSV Complete double seat valve range.

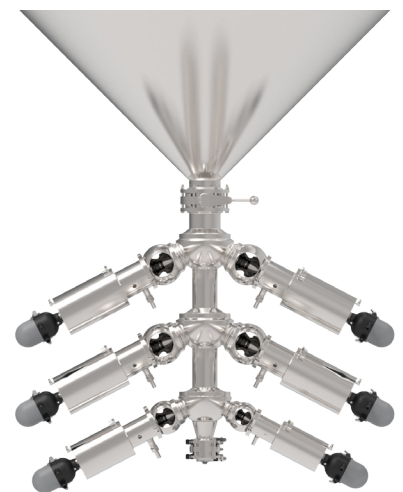
The IntelliTank Matrix meets the varied requirements that are part of a validated manufacturing process. Pentair Südmö offers a customer-oriented system solution based on process needs and requirements.

For example, in an brewery fermentation processes and temperature can be controlled with the IntelliTank Matrix, using adequate connection with the product tank. The product paths, including short tank outlet pipes reduce product loss. This directly influences and assures product quality.

The compact design saves space and is easy to maintain. The long service life and fast, simple maintenance of the valve components from the DSV Complete range help reduce operating costs.

ADVANTAGES

- Increased process and operating safety
- Consistent product quality
- Reduced product loss
- Reduced CIP cleaning costs
- Increased production and operating time
- Compact design reduces piping, which means less space required
- Proven components from Pentair Südmö's DSV Complete valve range
- Simple, fast maintenance
- Lower operating costs





TECHNICAL INFORMATION

NOMINAL DIAMETERS

- DN 50 to DN 100
- DN 2.0" to 4.0" (OD)

MATERIAL

Product contact area

1.4404 (AISI 316L)

Non-product contact area

1.4301 (AISI 304) / 1.4307 (AISI 304 L)

Seals

EPDM / HNBR

OPERATING TEMPERATURES

for EPDM seals

- 130° C (266° F) continuous
- 150° C (300° F) temporary
(steam sterilization)

PRESSURES

Control air pressure

6 bar (87 psi) – 8 bar (116 psi)

Operating pressure

5 bar (72.5psi)

SURFACES

Product contacted

Ra ≤ 0.8 µm

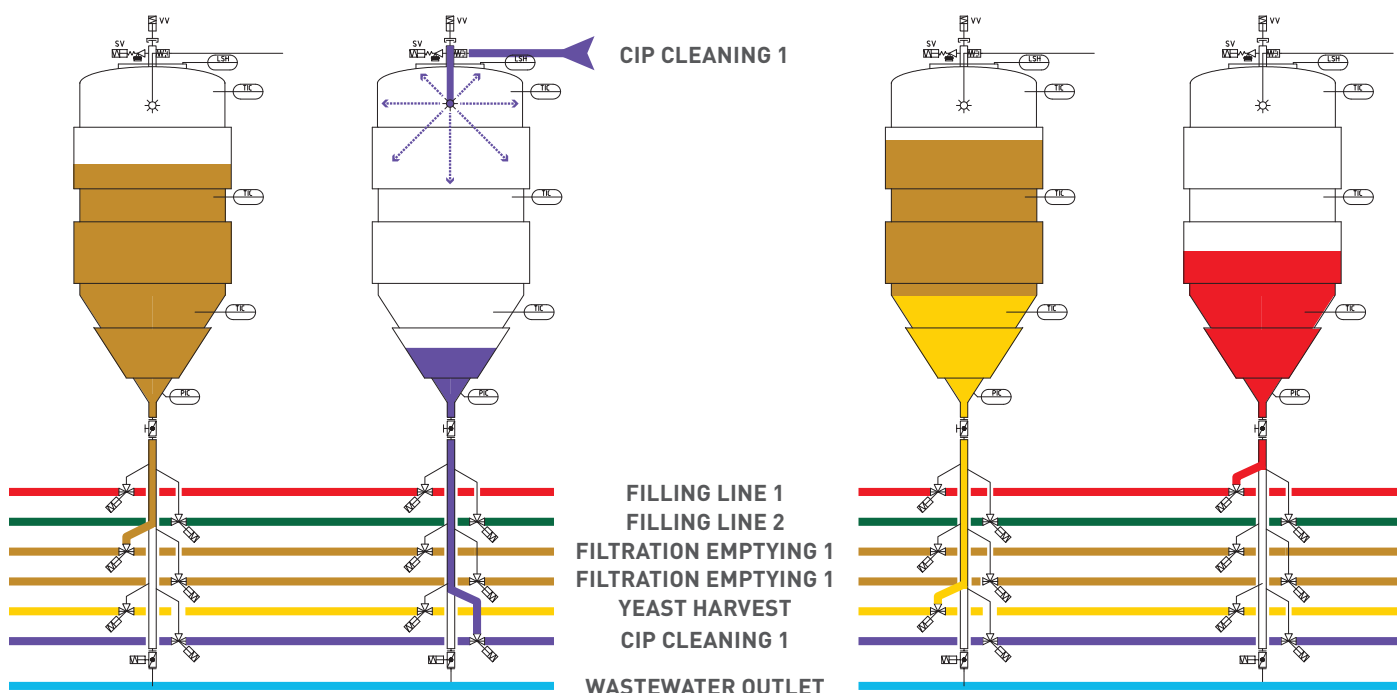
Non-product contacted

Ra 1.6 µm

CONNECTIONS

Pipe connections in accordance with

- DIN 11850 Range 2 (DIN 11866 Range A)
- ASTM A270 (ASME BPE-2009 / DIN 11866 Range C)





SÜDMO COMPONENTS GMBH

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