

MPV Multi-Purpose Vessels

# Aseptic & hygienic buffering

To minimize product loss



Buffer tanks give you a higher efficiency and less product loss during production.

Especially on small scale often the filling & closing capacity of the filling bench is the limitation on laboratory and pilot scale. To integrate a buffer tank between the UHT and the filling bench you can create a continuous process with consistency quality. The buffer tanks are fully integrated and can be controlled from the UHT system or has its own touch screen and PLC.

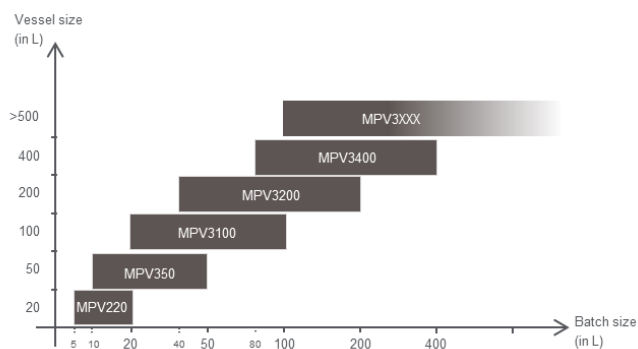
The OMVE MPV- buffering tanks are divided in MPV AB – Aseptic Buffering and MPV HB – Hygienic Buffering. The specifications for an Aseptic Buffer tank are higher than for the Hygienic Buffering tank. Both systems have a fully sanitary design.

The systems can be connected Top-IN – Bottom OUT or Bottom IN – Bottom OUT. Both are used depending on the product and application.

Standard the systems are supplied with pressurized double jacketed vessel.

## Unique Features

- Full integration with the OMVE UHT systems
- According to industrial standards
- Adjustable to customer specification
- Modular build
- Supplied with all (safety) instruments and controls
- Automatic control



Multi-Purpose Vessels

MPV



## Standard accessories

The general options are available independently from the type of vessel

- Automatic pressure control
- Temperature control
- High speed mixer
- Larger inlet / out connections with manual or automatic valves
- With an CIP unit
- Instrumentation and controls
- Additional connections

## Specifications

Name	Multi-Purpose Buffer Vessel				
Aseptic execution	<b>AB</b>				
Hygienic execution	<b>HB</b>				
Product code	<b>MPV220</b>	<b>MPV350</b>	<b>MPV3100</b>	<b>MPV3200</b>	<b>MPV3400</b>
Vessel sizes *	20L	50L	100L	200L	400L
Minimum batch size	5L	10L	12L	40L	20L
Pressure **	3 bar(g)	3 bar(g)	3 bar(g)	3 bar(g)	3 bar(g)
Temperature **	Up to 140°C	Up to 140°C	Up to 140°C	Up to 140°C	Up to 140°C
<b>Dimensions</b> LxDxH	900x900x1700	1000x900x1700	1100x1100x1900	TBD***	TBD***
<b>Weight</b>	200 – 800 kg depending on the final configuration				
<b>Materials</b>					
Housing	SS AISI 304				
Product line	SS AISI 316				

\*larger vessels on request

\*\*based on sterilization with steam

\*\*\*depending on final configuration

## Applications

The OMVE Multi-Purpose Vessels are used in a very broad range of applications. Every application has their own specific requirements but can also be combined in one vessel. For more detailed information consult our OMVE staff.

The groups are divided in 4 main groups:



MPV-BL  
Blending & Mixing Vessels



MPV-BC  
Batch Cooking  
Batch Processing



MPV-AB / HB  
Aseptic Buffer Vessels  
Hygienic Buffer Vessels



MPV-FE  
Fermentation Vessel