

MPV-range: Multi Purpose Process Vessel

Blending, Processing and Buffering based on your application



Introduction of the OMVE MPV range

You will find the OMVE laboratory & pilot Multi-Purpose Process Vessels in a very broad range of applications. This can be from a simple atmospheric buffer tank up to a fully automated fermentation process. The vessels will be supplied based on your application.

Features

- Stand-alone unit with all selected controls and instrumentations.
- Hygienic design
- Aseptic design (option)
- Based on customer specification
- Full access
- Modular build
- Agitators are interchangeable
- Adjustable speed of the agitator
- Supplied with instruments and controls
- Heating up from Ambient up to 150°C [302 °F]

Benefits

- Plug and play principle
- Less contamination / less cleaning time
- Minimise contamination
- Real simulation of your applications
- Easy to fill and clean
- Proven technology with full flexibility
- Flexible in applications
- Broad range of products
- Easy to integrate in a process plant
- Wide range of processes can be simulated

Applications

The OMVE MPV vessels are used as:

- Batch Pasteuriser / Batch Cooker
- Mixing and Blending system
- Dissolving system
- (Aseptic) Buffering vessel
- Fermentation vessel
- Aging vessel
- Deaeration / Degassing vessel
- Aeration system... etc.



Vessel Selection

The MPV range is standard available in 4 sizes. Other sizes are available on request.

MPV210	10 litre [2.2 gal]	MPV350	50 litre [11 gal]
MPV220	20 litre [4.4 gal]	MPV3100	100 litre [22 gal]

General optional accessories

The general options are available independent of the vessel executions.

- Mobile frame
- High Speed mixer
- Larger inlet/out connections with manual or automatic valves
- In combination with an inline system
- With a product pump
- Powder funnel
- Instrumentation and controls
- Additional connections
- Insulation

Specific options are base on the execution of the vessel. Hereunder the options are stated per execution:

<p>MPV - A: Atmospheric vessel with lid</p> <ul style="list-style-type: none"> • Low speed mixer fixed 	<p>MPV - AD: Atmospheric double jacketed vessel with lid</p> <ul style="list-style-type: none"> • Low speed mixer fixed • Heating system by closed water circuit • Cooling • Temperature, pH, pressure instrumentation • Data logging
<p>MPV - P: Pressurised vessel with lid</p> <ul style="list-style-type: none"> • Fixed low speed mixer, lid is pneumatically lifted • Pressure control • Steam injection • Sterilisation in Place • Aseptic execution • Clean in Place • Sight glass • Data logging 	<p>MPV - PD: Pressurised double jacketed vessel with lid</p> <ul style="list-style-type: none"> • Fixed low speed mixer, lid is pneumatically lifted • Pressure control • Steam injection • Sterilisation in Place • Aseptic execution • Clean in Place • Heating system by steam or pressurised water • Cooling • Temperature, pH, pressure measurement • Vacuum system • Sight glass • Data logging

OMVE supplies also the required instrumentation and controls to integrate the vessels in a complete processing plant. By using the touch screen different configurations are relative easy to implement.

Utilities

Electrical requirements	400V / 50Hz / 16A (3ph + N + E)
	Other electrical requirements available on request