

The RITTER PMMA Fermentation Bottle  
in various sizes with absolute gas tightness



PRESENTING  
THE ALL-NEW  
RITTER PMMA  
FERMENTATION BOTTLE  
IN VARIOUS SIZES  
WITH ABSOLUTE  
GAS TIGHTNESS!

**Yes we can!** RITTER'S experience of more than 70 years in thermoplastic engineering has gone into the development of a top class biogas batch fermentation system. With such systems the fermentation vat is one of the key components. The RITTER PMMA fermentation bottle is an ideal tool for tests of that kind.

#### **Feature highlights**

- Absolute gas-tight by magnetic coupling between stirring motor and stirring blade
- Various bottle sizes: 0.5 / 1 / 2 ltr – custom sizes on request
- High breaking strength by PMMA material (no fragile glass gas outlet nozzle)
- Custom stirring blades available

# The RITTER PMMA Fermentation Bottle and it's well constructed Stirring Device



A permanently gas-tight shaft feed-through is always a challenge with gas measurements. Even O-ring or lip seals fail in the long term with aggressive gas components or with smallest particles carried in the gas flow. Therefore, with stirring units for fermentation bottles unsatisfactory compromises are made by inefficient stirring rods and / or smallest gaps at the stirring shaft.

RITTER, on the other hand, has chosen a technically sophisticated magnetic coupling between stirring motor and blade. As a result, not only a permanently gas-tight transmission is achieved but the possibility of customized stirring blades which are optimized for the respective fermentation substrate.

## Technical data

- Stirring speed adjustable from 1 to 30 r/min
- Clocked stirring 1min / 1 min
- Suitable for media with low and high viscosity ( $\leq 450 \text{ mm}^2/\text{sec}$ )
- Gas outlet port: PVDF screw-type tube connection for tube  $\varnothing 4_1 / 6_0 \text{ mm}$



**INCL. MAGNETIC COUPLING FOR ABSOLUTE GAS TIGHTNESS OF FERMENTATION BOTTLE**

## Dimensions of PMMA fermentation bottles

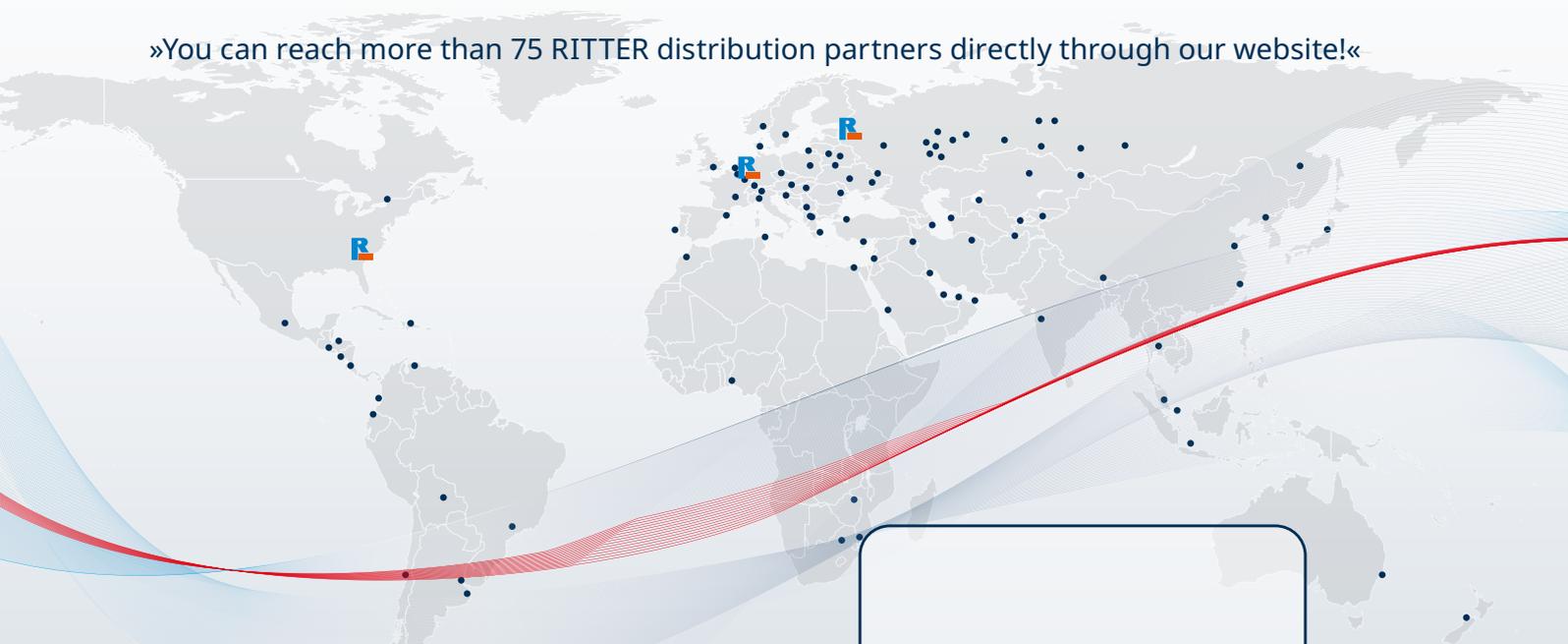
0.5 ltr	PMMA fermentation bottle	H 110 mm x D105 mm	Weight 0.25 kg
1.0 ltr	PMMA fermentation bottle	H 190 mm x D105 mm	Weight 0.4 kg
2.0 ltr	PMMA fermentation bottle	H 350 mm x D105 mm	Weight 0.7 kg

## Dimensions of stirring units

0.5 ltr	Stirring blade for PMMA bottle	W 73 mm x H 45 mm	Unit weight ~ 0.7 kg
1.0 ltr	Stirring blade for PMMA bottle	W 73 mm x H 125 mm	Unit weight ~ 0.7 kg
2.0 ltr	Stirring blade for PMMA bottle	W 73 mm x H 285 mm	Unit weight ~ 0.7 kg

For more details please visit [www.ritter.de](http://www.ritter.de)

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