

Counter-Pressure Filling for Carbonated Beverages

FS205, FS206, FS207 & FS208 Flexi-Fill Counter-Pressure Fillers

Accurate, Controlled & Versatile

The OMVE FS205, FS206, FS207 and FS208 are counter-pressure fillers that work according to the same principal as an industrial filler. Their unique design supports the filling process for a broad range of carbonated products, including liquids containing particles and fibres.

The fillers can be seamlessly integrated with our CF310 Batch carbonator, and are supplied with an integrated heat exchanger for optimal cooling of the product to improve the accuracy of the CO₂ content. Additional options can be added to control or reduce foaming during filling.

The filling heads can be fully adapted to the packaging type and can be equipped with integrated crown cork sealer and screw capper. The FS207 and 208 versions are fitted with a built-in can seamer as a standard.

FS205
Flexi-Fill Counter-Pressure Filler



60 Units/hr, Single Filling Head

FS206
Flexi-Fill Counter-Pressure Filler



90 Units/hr, Double Filling Head

FS207
Flexi-Fill Counter-Pressure Filler
with Can Seamer



60 Units/hr, Single Filling Head

FS208
Flexi-Fill Counter-Pressure Filler
with Can Seamer



90 Units/hr, Double Filling Head

Working Principle

The counter pressure filler is connected to a batch carbonator.

The packaging is placed in the filling house and pressurized in order to create a pressure difference between packaging and product supply in order to have a gentle product flow and prevent foaming. The product is cooled in a heat exchanger before it reaches the filling head in order to prevent CO₂ loss during filling. After filling, the packaging is being depressurized.

The depressurization speed is again adjustable to prevent excessive foaming. Optional integrated closing devices can automatically close the packaging after filling.

Applications

- Water
- Soft drinks
- Beer & alcoholic drinks
- (Non) dairy drinks
- Juices & concentrates
- Coffee & tea
- Energy drinks

Specifications

Product Code	FS205 Flexi-Fill	FS206 Flexi-Fill	FS207 Flexi-Fill	FS208 Flexi-Fill
Filling heads	1	2	1	2
Filling / closing speed	60 units/hr	90 units/hr	60 units/hr	90 units/hr
Capping/ seaming devices				
Screw capper	Yes	Yes	Yes	Yes
Crown cork	Yes	Yes	Yes	Yes
Can seamer	-	-	Yes	Yes
Weights & Dimensions				
Weight	280kg [617lbs]	320kg [705lbs]	520kg [1146lbs]	822kg [1812lbs]
L x W x H	1270 x 1060 x 1920mm [50 x 42 x 76"]	1270 x 1200 x 1960mm [50x47x77"]	1920 x 1190 x 2100mm [76x47x83"]	2380 x 1190 x 2100mm [94x47x83"]
Required utilities				
Electrical supply	200-240 Vac/ 1Ph + N + PE/ 50Hz/ 16A, 200-240 Vac/ 3Ph + PE/ 60Hz/ 16A	200-240 Vac/ 1Ph + N + PE/ 50Hz/ 16A, 200-240 Vac/ 3Ph + PE/ 60Hz/ 16A	370-400 Vac/ 3Ph + N + PE /50Hz/ 16A, 200-240 Vac/ 3Ph + PE/ 60Hz/ 16A	370-400 Vac/ 3Ph + N + PE/ 50Hz/ 16A, 200-240 Vac/ 3Ph + PE/ 60 Hz/ 16A
Compressed air	6-7 bar(g) 87-101 psi	6-7 bar(g) 87-101 psi	6-7 bar(g) 87-101 psi	6-7 bar(g) 87-101 psi
Coolant supply	2-3 bar(g) 29-44 psi	2-3 bar(g) 29-44 psi	2-3 bar(g) 29-44 psi	2-3 bar(g) 29-44 psi
CO ₂ supply	6-7 bar(g) 87-101 psi	6-7 bar(g) 87-101 psi	6-7 bar(g) 87-101 psi	6-7 bar(g) 87-101 psi

Industrial filling production line for sodas



CF310 Batch Carbonator

FS206 Flexi-Fill Counter-Pressure Filler

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Lab & Pilot Equipment 