



APPLICATION BRIEF

FLOW METERS IN BEVERAGE FILLING STATIONS FOR BOXED WINE

August 28, 2024

PROJECT OVERVIEW

Boxed wine debuted in the United States in the 1980s. Recently, premium wine boxes have become popular with very specific advantages over bottles. These include being an eco-friendly / recyclable container and the opportunity to “box” healthier wine options like zero sugar. The benefits of lower overhead and reduced shipping costs create savings that are passed along to the consumer.

The global “bag-in-box market” was ~\$3.5 billion in 2023. Sales of boxed wine packaging are expected to grow 1.7 times between 2023 and 2033.

The rising demand of boxed wine production requires efficient filling stations for the beverage makers. Beverage filling stations are designed with a manual or automated filling process. Manual stations incorporate the use of a 3A compliant flow meter with a display and manual valve. An automated system consists of a 3A flow meter combined with a valve and batch controller or PLC.

PRODUCT SPECIFICATIONS

3A Sanitary Certification is established by the 3A Sanitary Standards, Inc. These standards govern the design, materials, and construction of equipment to ensure it is safe for use in sanitary applications.

3A compliant flow meters can be easily cleaned for beverage safety. The convenience of cleaning them in place, without needing to be taken out of service, using Steam-in-Place (SIP) or Clean-in-Place (CIP) sterilizing methods, is a significant time and cost saver.

PRODUCT SOLUTION

FLOMEC®’s G3A Series 3A food and beverage, stainless steel, turbine flow meter provides a reliable solution for accurate measurement of beverage transfer processes.



G3A Flow Meter, 2-Wire Magnetic Pickup with 10 ft. of Cable (Sine Wave Pulse)

GSCPS-100-2	2-wire Magnetic Pickup, Sanitary Turbine HT 1" (25 mm), 1½" Tri-Clamp (with 3A Certification)
GSCPS-150-2	2-wire Magnetic Pickup, Sanitary Turbine HT 1½" (40 mm), 1½" Tri-Clamp (with 3A Certification)
GSCPS-200-2	2-wire Magnetic Pickup, Sanitary Turbine HT 2" (50 mm), 2" Tri-Clamp (with 3A Certification)



G3A Flow Meter, 3-Wire Magnetic Pickup with 10 ft. of Cable (Square Wave Pulse)

GSCPS-100-3	3-wire Magnetic Pickup, Sanitary Turbine HT 1" (25 mm), 1½" Tri-Clamp (with 3A Certification)
GSCPS-150-3	3-wire Magnetic Pickup, Sanitary Turbine HT 1½" (40 mm), 1½" Tri-Clamp (with 3A Certification)
GSCPS-200-3	3-wire Magnetic Pickup, Sanitary Turbine HT 2" (50 mm), 2" Tri-Clamp (with 3A Certification)

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PRODUCT SOLUTION - CONT.

G3A Flow Meter, RT14 4-20mA, Scaled Pulse, Pulse out Rate and Totalizer Display

GSCPS-100-RT14	RT14 Display, Sanitary Turbine HT 1" (25 mm), 1½" Tri-Clamp (with 3A Certification) (Default to Gallons)
GSCPS-150-RT14	RT14 Display, Sanitary Turbine HT 1½" (40 mm), 1½" Tri-Clamp (with 3A Certification) (Default to Gallons)
GSCPS-200-RT14	RT14 Display, Sanitary Turbine HT 2" (50 mm), 2" Tri-Clamp (with 3A Certification) (Default to Gallons)

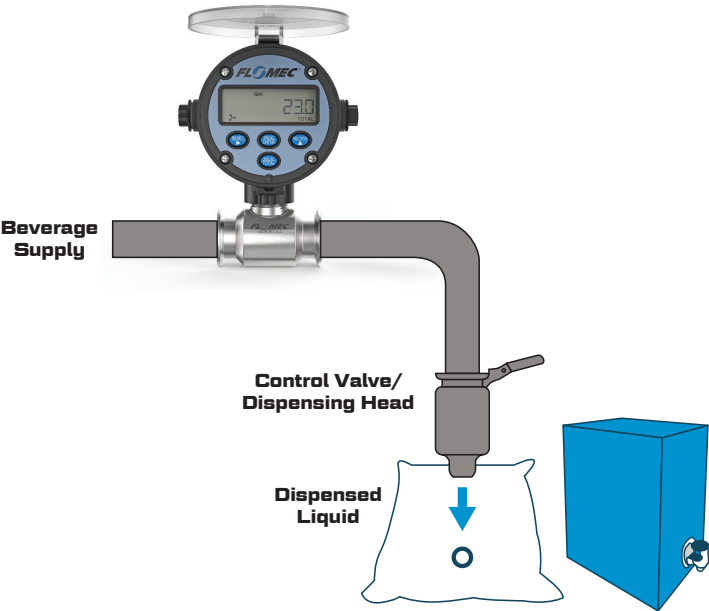


Minimum Batch Size Per G3A Flow Meter Size:

1" Flow Meter	1½" Flow Meter	2" Flow Meter
¼ Gallon / 32 oz.	¾ Gallon / 96 oz.	1¼ Gallon / 160 oz.

BEVERAGE FILLING STATIONS WITH FLOW METERS FOR BOXED WINE

Manual Filling Station



Automated Filling Station

