# Unlock the Potential of Your Filling Line

A recent FDA approval means you now have a choice in glass packaging.

CORNING

## 1. CHALLENGES WITH CONVENTIONAL VIALS

Observation of filling lines shows many manufacturing issues are due to limitations of conventional glass containers which lead to lower quality and operational inefficiencies



#### 2. INNOVATIVE SOLUTION: VALOR® GLASS

Valor glass is a revolutionary product enabled by process innovations that deliver superior quality and cost reduction



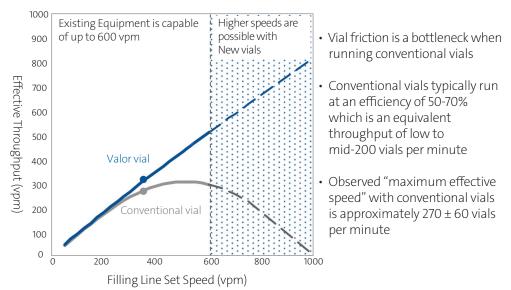
- Damage resistant external surface reduces particle generation by preventing scratches
- Engineered stress profile to actively prevent\* cracks and increase load bearing strength
- Durable low CoF exterior surface coating that survives standard fill-finish operations

Coated Region

\*In laboratory testing, new vials provide at least 30x protection against cracks than conventional glass vials.

### 3. VALOR® VIALS INCREASES FILLING THROUGHPUT

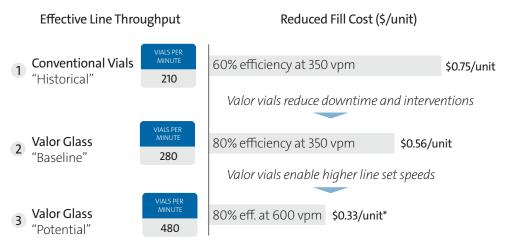
Valor vial's high dimensional consistency and low coefficient of friction coating improves bulk filling line efficiency and throughput



Valor vials can maintain high efficiency (>80%) at higher filling line set speeds

#### 4. VALOR VIALS CAN LOWER MFG. FILLING COST

Valor vial's high dimensional consistency and low coefficient of friction coating improves filling line efficiency and throughput



\*Equivalent to \$0.42/unit of value

#### The future of glass packaging is here.

Efficiency is critical in drug manufacturing. Breaks, interventions, and rejects decrease manufacturing productivity and hurt supply reliability.

Valor Glass has a low coefficient of friction exterior coating which significantly reduces production downtime, enables increased manufacturing productivity, and has the potential to create immediate capacity with existing assets.



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