

Recommendations for Glass Lined Mixers in Pharmaceutical Applications



*Glass Lined Mixer manufactured by
De Dietrich Glass Lined Equipment*

Operation

Used to mix corrosives and considered to be a "clean and sterilizable" vessel for food and pharmaceutical

- 1 Mixer is clean, sanitized or sterilized
- 2 Mixer is charged with fluids and/or solids
- 3 Mixer is heated, cooled, pressurized, or put in a vacuum for operation
- 4 When mixing is complete, it is drained by gravity, purged by pressure or evacuated by vacuum
- 5 Cleaning begins for next batch

Typical Pressures

- Can be as high as 85 psi as low as a vacuum

Typical Temperatures

- As low as -10°F and as high as 350°F
- Operators of the equipment must take care to not thermally shock the glass lining

Typical Operating Cycle

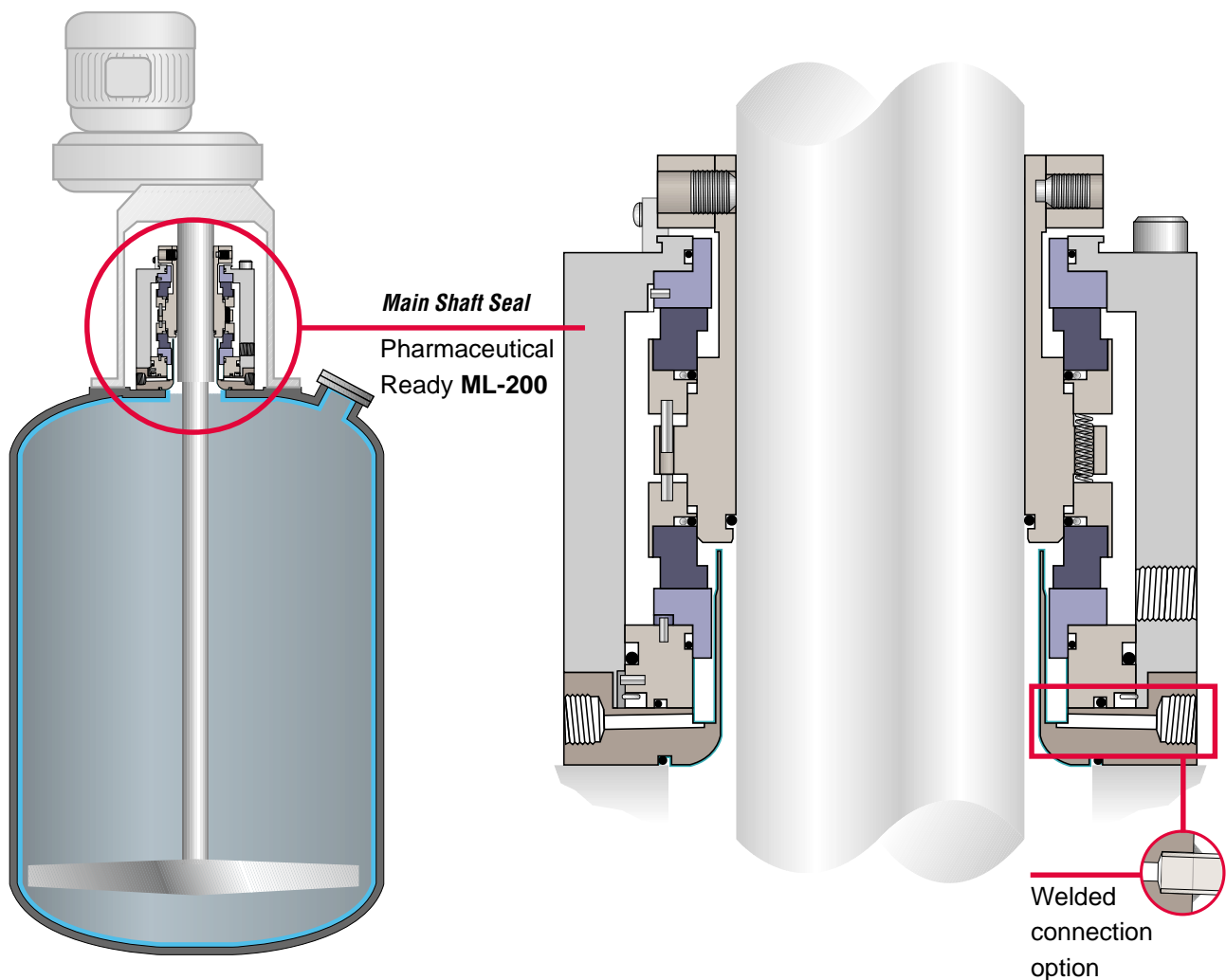
- Batch operation

Flowserve Seal Recommendations

A dual mechanical seal is normal in this equipment

Dry running applications may use the dual **QBW**, **ML-200** or **MD-200**

A wet dual application use the **MW-200**



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