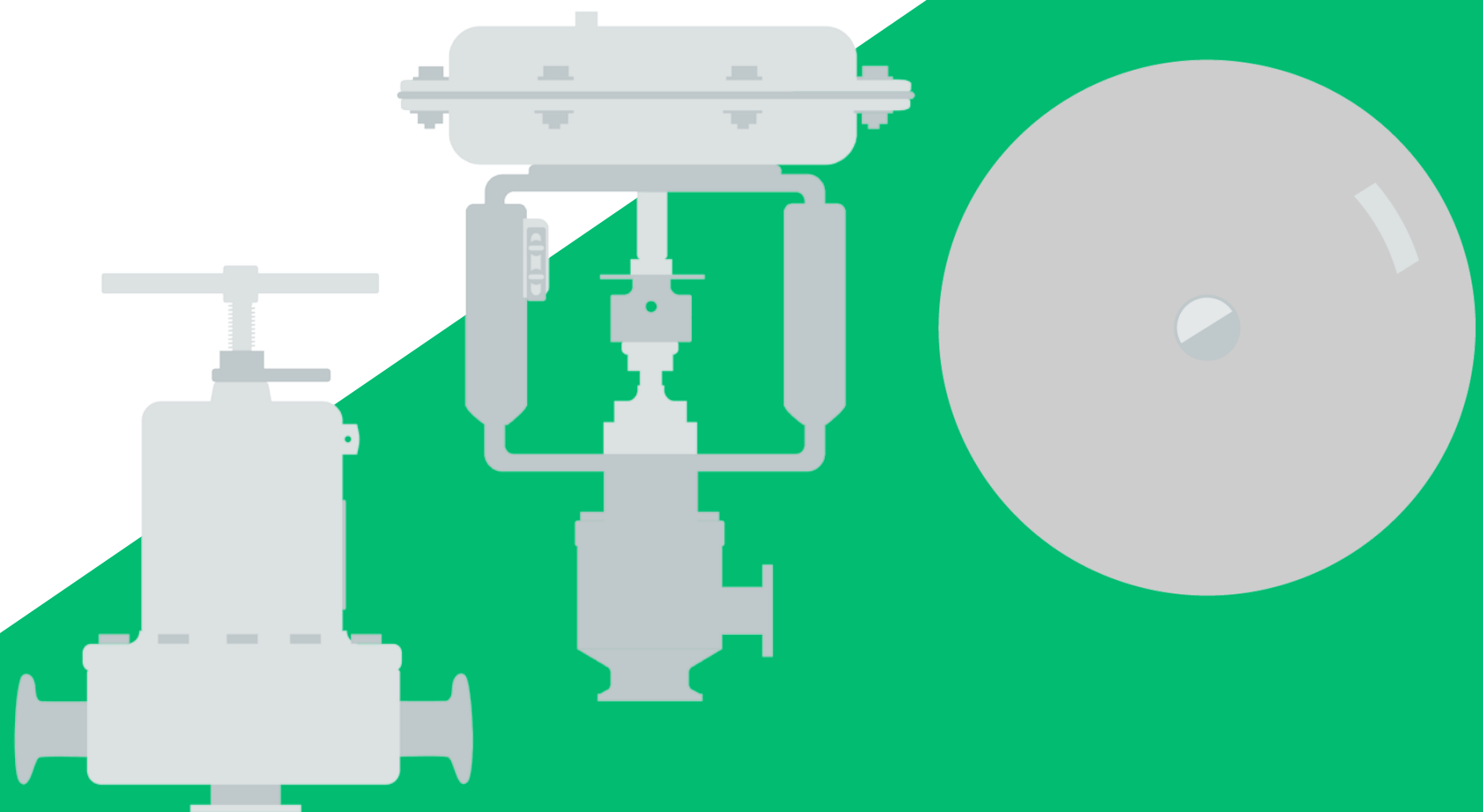


The Jorlon™ Diaphragm





GUARANTEED



FOR LIFE

Aseptic and reliable valve components are extremely important in the pharmaceutical industry. And because they see the most wear, automated control valve and regulator valve diaphragms are particularly vital. Without a reliable diaphragm, the dependability of your aseptic process could be in serious jeopardy.

THE COST OF FAILURE

Unscheduled shutdowns can result in 2 weeks to a month of downtime — no production!

*A catastrophic diaphragm failure will distribute pieces of the diaphragm throughout the aseptic piping system to all points downstream of the valve, putting **final drug substance quality at risk**.*

*Complete processing systems must be **shut down**.*

*The extent of particulate **contamination** must be determined.*

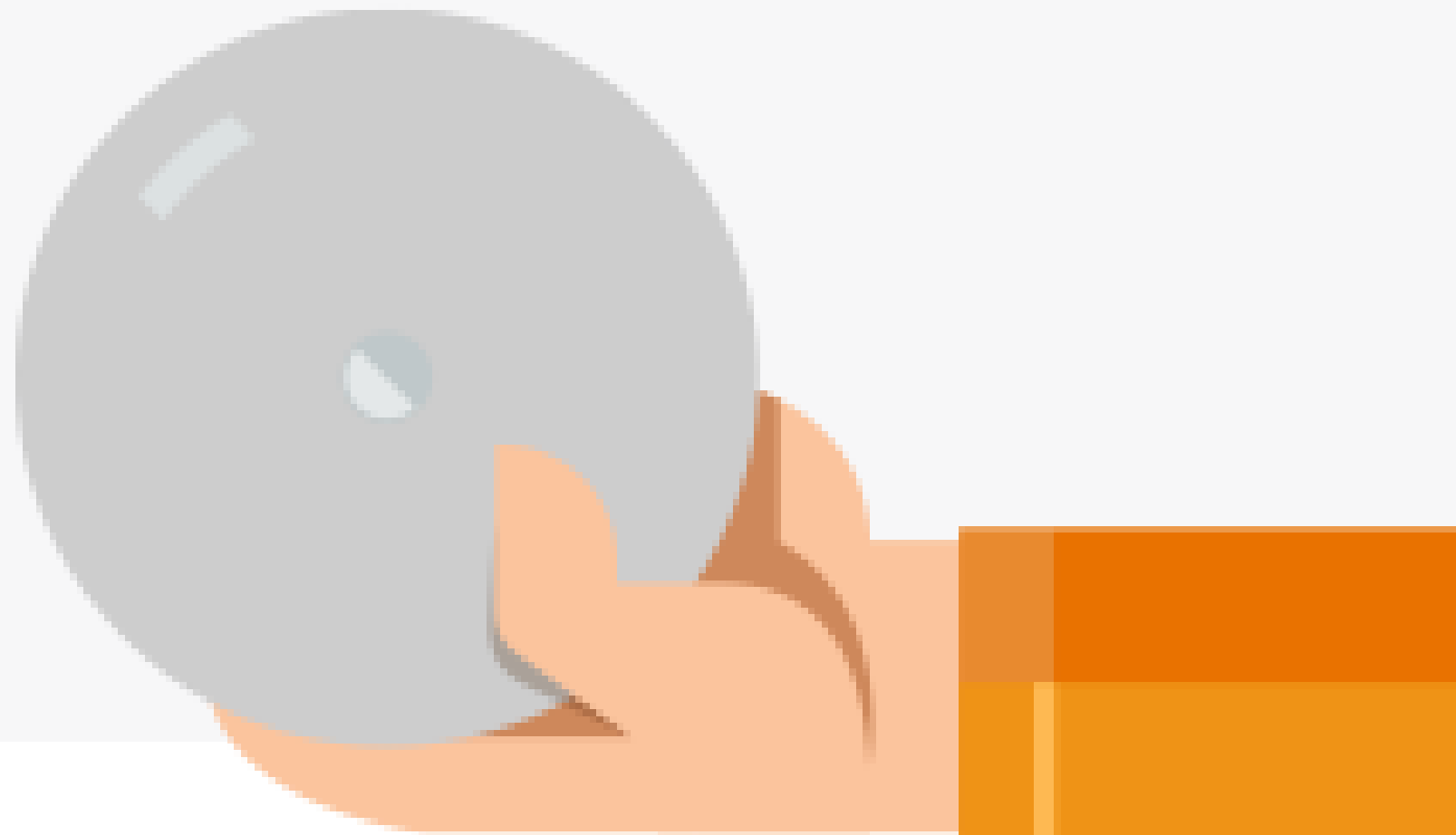
*Drug batch(es) may be **destroyed**.*

*Depending on time of failure, valve location in the product train, and contaminant dispersion, the **batch history must be audited** to determine the extent of contamination over production time.*

**2-4
WEEKS**
OF DOWNTIME

WHAT CAN YOU DO TO PREVENT THIS?

Jorlon™ is a structurally modified, non-laminated, pure PTFE diaphragm material that provides a sterile barrier between the process and outside environment, and increases the life of your control valves and regulators.



CHANGE-OUT TIMELINE

Conventional laminate diaphragms

3-12 months

Mark 978 Jorlon™ Diaphragm

4 years*



*Customer's reliability engineer believes he can extend the change-out timeline to 7 years.

HOW IT'S MADE



PTFE is formed in a proprietary process to create a solid diaphragm. The product is thoroughly tested for durability, making sure you get the best results possible.

Jorlon™ is warranted for a lifetime of use on:

- ✓ Mark 95 BPRVs
- ✓ Mark 95AA PBRVs
- ✓ Mark 96 PRVs
- ✓ Mark 96A PRVs
- ✓ Mark 96AA PRVs
- ✓ Mark 978 Control Valves
- ✓ JSHM Hand Metering Valve
- ✓ J-Series Gas Regulators

PRODUCT APPLICATIONS



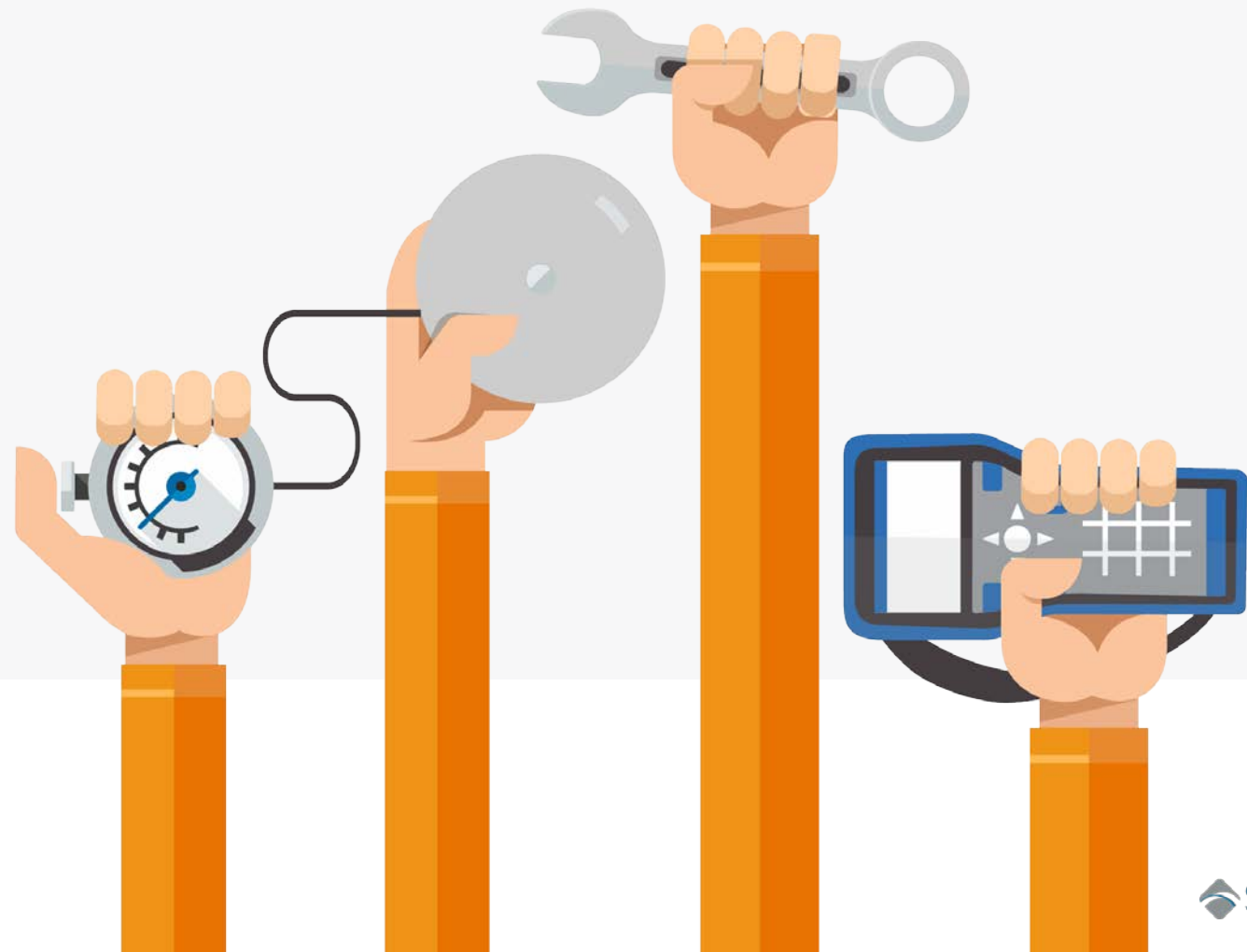
MAINTENANCE

Jorlon™ reduces the need for excessive preventive maintenance.

A customer with a 200+ regulator population reported a

**9-YEAR
PERIOD**

**WITHOUT A SINGLE REGULATOR
MAINTENANCE EVENT.**



SUCCESSFULLY TESTED

CYCLE TESTING

Successfully tested on a variety of Steriflow valves on 45 psig (3 bar) continuous steam service to over

1 MILLION FULL STROKE CYCLES

Jorlon™ has successfully tested nitrogen pressure to over

1,200 PSI



SUCCESSFULLY TESTED

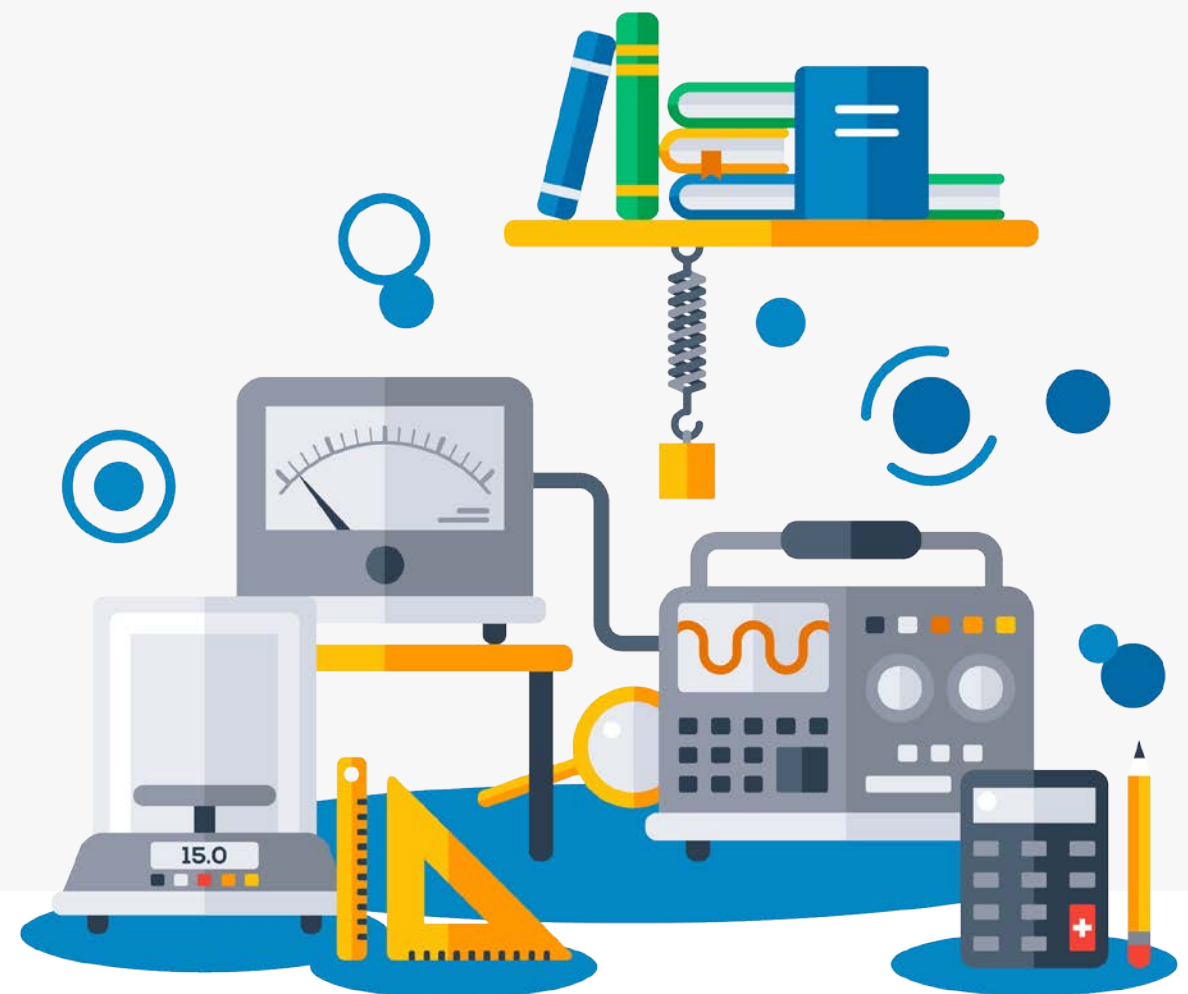
LAB TESTING

The valves were successfully tested with an additional

100 STEAM & VACUUM
CYCLES

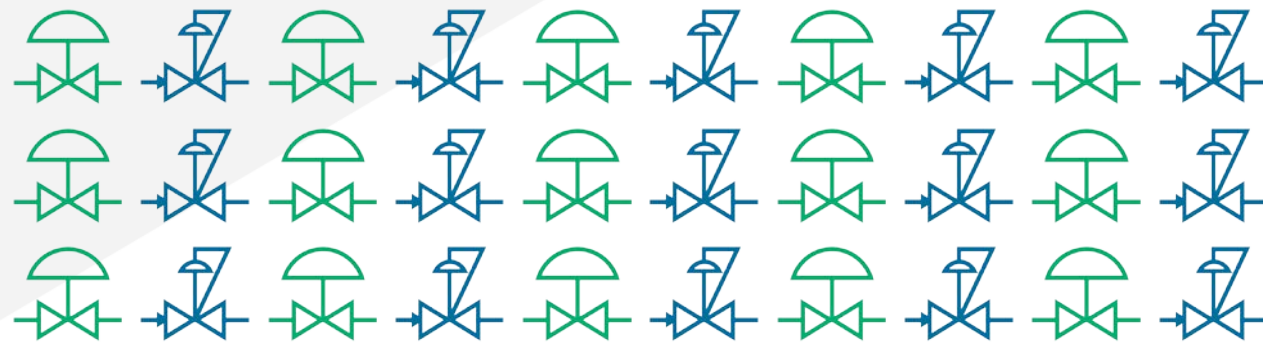
Lab tests comparing Jorlon™ to 316L diaphragms show continued life after exceeding the SST failure cycle count by more than

100x



TENS OF THOUSANDS

of Steriflow valves with Jorlon™ Diaphragms have been installed in FDA-approved systems and facilities.



- ✓ FDA COMPLIANT
- ✓ USP CERTIFIED
- ✓ ADI/TSE FREE
- ✓ INCREDIBLY DEPENDABLE
- ✓ LASTING YEARS LONGER THAN LAMINATED DIAPHRAGMS



With a

JorlonTM Diaphragm

you can...

1

Save money

2

Extend preventive maintenance
diaphragm change-out times

3

Realize the benefits of a regulator and control
valve that outlasts most normal systems



Jorlon™ Diaphragm VALVES



JSB Series



JSHM Series



JSR Series



JSRH Series



JSRHF Series



JSRLF Series



JSRFLP Series



Mark 95 Series



Mark 95AA Series



Mark 95FT Series



Mark 96 Series



Mark 96A Series



Mark 96AA Series



Mark 96C Series



Mark 978 Series



Mark 978LFJD Series

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