



**LIAG®**

## **LAUFER VALVE TECHNOLOGY**



**DMV Product Recovery  
Pigging Systems for hygienic processes**

# LIAG® DMV Pigging System

## for hygienic processes and viscous, fast hardening media

### Hygienic – Modular – Efficient

Process systems cleaned with pigs are becoming increasingly important for hygienic processes. Increased environmental consciousness, costly waste water treatment and product losses, superior hygienic standards and production streamlining are some of the reasons.

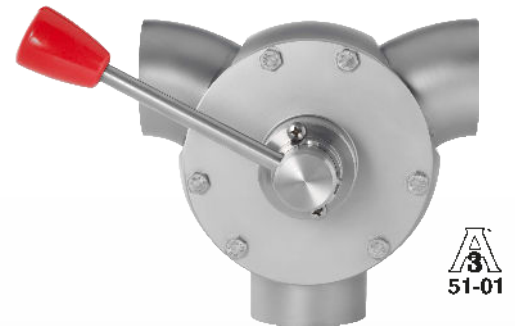
#### Features

- Minimum product loss
- Safe separation of product - no mixed phases
- Faster changeovers
- Maximum product quality
- Reduction of time consuming cleaning and waste water generation
- Environmentally sound systems



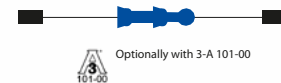
### Sterile processes pose stringent demands on system components

For this processes we offer DMV pigging systems featuring 3-A rated CIP/SIP LIAG® free flow shutter valves and specifically designed pig launching and receiving stations without dead pockets. Simplifying the modular component design, thread and clamp unions are virtually no longer needed, minimizing typical hygienic risk areas by design. All LIAG® shutter valves, even when welded in place, can be easily disassembled for maintenance.



#### DMV operation procedures

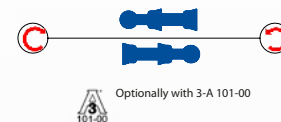
**One way**  
Manual return of pig



**Single loop**  
Automatic return of pig from receiving to launching station, then manual change of direction



**Two way with turning station**  
Automatic return of pig by use of LAUFER turning station (closed system)



**Double loop**  
Automatic return of pig by use of LAUFER pig diverter shutter valves (closed system)



**Ring system**  
Closed system

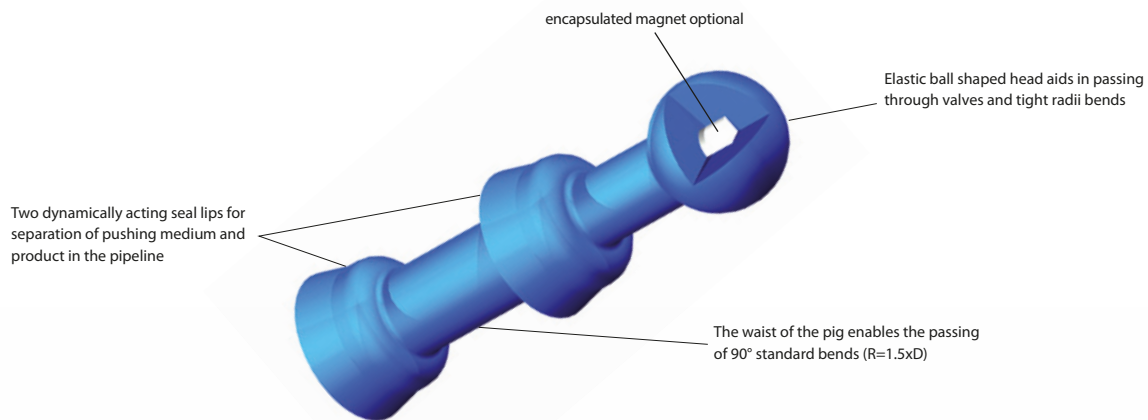


# Made with Know How

## DMV lip pig – reliable tight

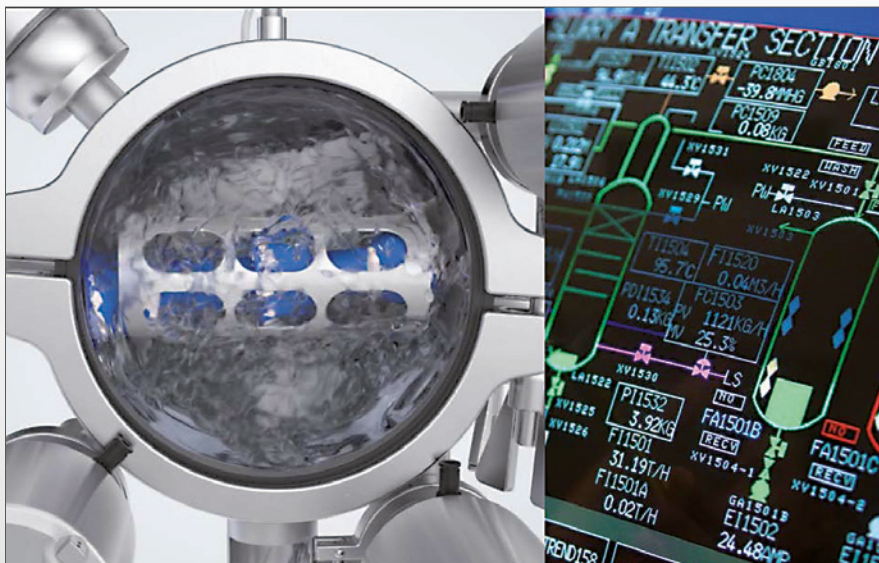
The DMV pigging system works with a 2-seal lip pig and are of homogeneous hygienic design. They offer excellent cleaning effect and are virtually free of wear. Two dynamic lips form a reliable seal with the pipe wall, the action of pressure and counter pressure forms the seals to the pipe wall, compensating for minor deviations in the pipe geometry.

The pigs are highly flexible and can pass tight radii ( $R= 1.5 \times D$ ). Dynamic lip pigs are optionally equipped with a magnet for location and control.



## DMV pig launching and receiving station

To satisfy the diverse requirements of the wide range of processes, the optimum pigging procedure is always designed to the specific project.



### Features DMV Pigging System

- Sterile and closed pipe systems
- No dead pockets with **LIAG®** CIP/SIP free flow shutter valves
- Optimized cleaning result with dynamic DMV lip pigs
- Capable of passing 90° standard bends ( $R= 1.5 \times D$ )
- Available with in system cleaning of the pig
- Optimally suited for hygienic processes and highly viscous, fast hardening media, e.g. yogurt, dressings, soft cheese, chocolate, tooth paste, etc.
- Optionally 3-A 101-00 and FDA compliance



# Hygienic – Modular – Efficient

## Basic facts

Nominal sizes: Inch: 1.5" / 2" / 2.5" / 3" / 4"  
DIN: 40 / 50 / 65 / 80 / 100

Radius of the bends: Capable of passing 90° standard bends R= 1.5 x D  
Multi-mode: Manual, semi or fully automated  
DMV pig pushing media: e.g. product, water, air etc.

## Materials

Inox parts in contact with product: AISI 316L (1.4404 / 1.4435)  
Other inox parts: AISI 304 (1.4301)  
O-ring seals: EPDM, FKM (Viton®), FEP,  
other grades upon request  
Shutter material: Dyneon™TFM1600,  
alternatively: Tecapeek®, PTFE+15% Peek  
DMV lip pig: Silicone with FDA compliance

## Surfaces

In contact with product: Ra ≤ 32µin (Ra ≤ 0.8µm)

## Range of temperature

Standard: -13°F (-25°C) up to +230°F (+110°C)  
Optional: -13°F (-25°C) up to +302°F (+150°C)

## Pushing pressure DMV lip pig

Depending on product (viscosity) and length of the pipe work:  
min. 14.5 psi - max. 145 psi (min. 1 bar - max. 10 bar)

## Further option

3-A 101-00 and FDA compliance

## Rentability

For ROI calculations please visit our website [www.laufer-valve.com](http://www.laufer-valve.com)

## Important note

DMV pigs should only be used in pigging systems, which are designed for this type of pig. The supplier will not assume any kind of function warranty or product liability and no responsibility for any kind of damage to persons or property due to improper use.

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