LIAG®

DMV Product Recovery

Pigging Systems for hygienic processes

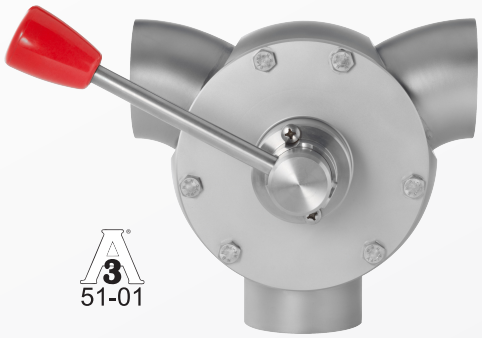
LIAG® DMV Pigging System
for hygienic processes and viscous, fast hardening media

Hygienic - Modular - Efficient

Process systems cleaned with pigs are becoming increasingly important for hygienic processes. Increased environmental consciousness, costly waste water treament 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



3-A 51-01

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.

3-A 51-01

DMV operation procedures

One way
Manual return of pig

3-A 101-00 Optionally with 3-A 101-00

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

Bi-directional with turning station
Automatic return of pig by use of LIAG® turning station (closed system CIP/SIP automated)

3-A 101-00 Optionally with 3-A 101-00

Double loop (Bi-directional)
Automatic return of pig by use of LIAG® pigging valves (closed system CIP/SIP automated)

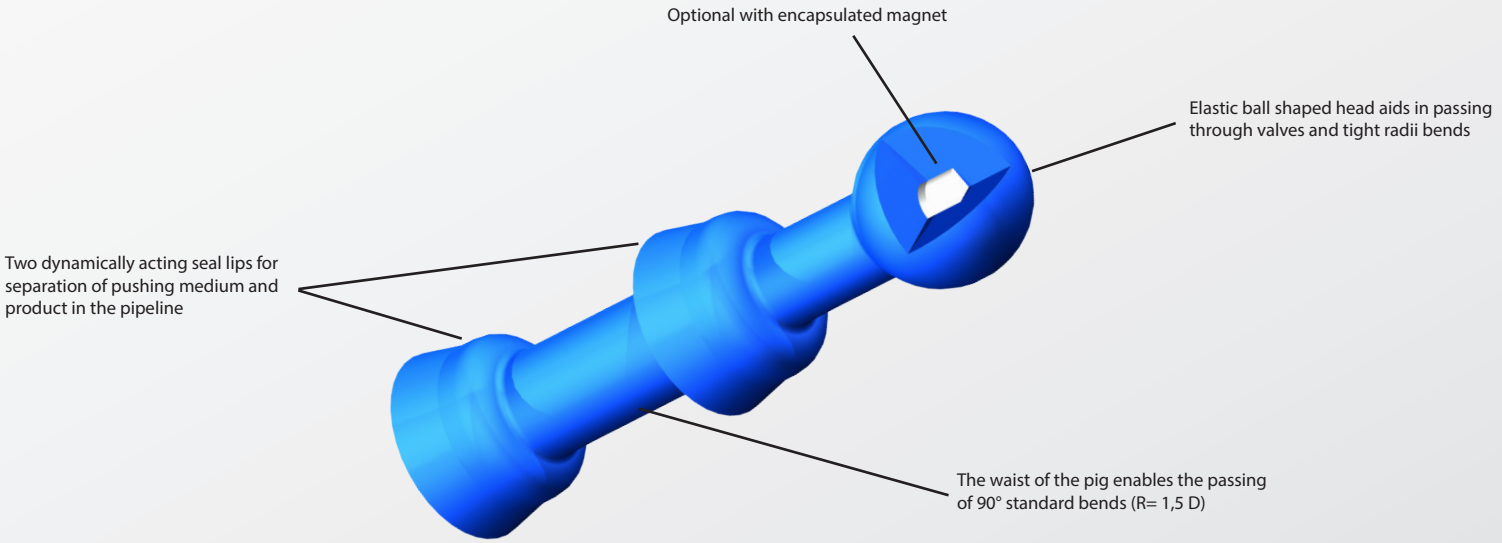
Ring system
Closed system CIP/SIP automated

Made by 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 x 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 x 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

3-A 101-00

Hygienic - Modular - Efficient

Basic facts

Norminal 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, FPM (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 ≤ 0,8 µm (Ra ≤ 32 µin)

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

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.

LAUFER Valve Technology Inc., 2300 Walnut Ave, Suite Q-R, Signal Hill, CA 90755
T: +1.562.232.4777 - sales@laufer-valve.com - www.laufer-valve.com

Copyright © LAUFER Valve Technology Inc. 2022 - All rights reserved