

LIAG[®]

LAEUFER International AG

SMV pendulum pigging system



Minimized dead pockets ✓

Modular ✓

99.9% product recovery ✓

**Ideal for the beverage,
cosmetics and
paint industry ✓**

**Designed
for universal application**

SMV pendulum pigging system

SMV pendulum pigging system - for universal application

Different processes demand specifically designed solutions

Process systems, which can be cleaned with pigs, are becoming increasingly important for process engineering.

Among other reasons, this is attributable to an increased environmental consciousness, costly waste water treatment, prevention of costly product losses, and production streamlining measures.

LIAG's SMV pendulum pigging systems are based on the use of static pigs which - driven by a medium (water, air, product) - move back and forth between the pig launching and receiving station, thereby eliminating the remaining product from the pipe.

Optimum pigging geometry and the suitable process (e.g. single pigging, dual or tandem pigging) depend on different process factors and are therefore always designed to the specific project.

The components used in **SMV** pendulum pigging systems are essential to high operating safety.

The use of inox valves and components with minimized dead pockets is standard in view of maximum process safety.

Fast and safe product separation lowers costs and is environmentally sound.

As an option, we offer pigging systems for especially low-germ processes. They feature 3-A rated CIP/SIP inox arc valves, pigging valves and specifically designed pig launching and receiving stations without dead pockets (cf. DMV pigging system for low-germ processes).

LIAG performs the complete spectrum of engineering services for your system.

Capitalize on our many years of expertise and references in this field.

The benefits at a glance

Designed for easy use in process engineering

Less product loss and time-consuming cleaning

Safe separation of product - no mixed phases – environmentally sound

Short amortisation time

Modular system engineering for precise adaptation of processes

Design with minimized dead pockets

Product recovery factor of 99.9%

Maximum system safety

Available from DN 25 to DN 200 (1" - 8")

A variety of pigging geometries and materials for different applications

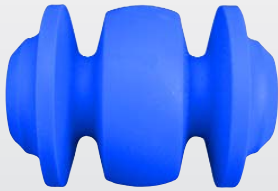
Optimally suited for the beverage, cosmetics and paint industry



SMV
pig launching station

Static pendulum pigs - the perfect shape for every application

SMV pendulum pigs are of homogeneous construction (hygienic design). They are statically sealing by means of a defined oversize between the pig outside diameter and pipe inside diameter. As an option, static pigs are equipped with a magnet for location and control.

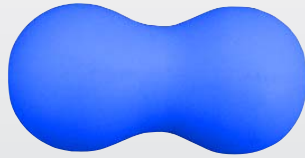


Pendulum pig "ball shape"

DN 50 - DN 125 (2"-5")

Silicone (FDA)

Starting at $R = 3.0 \times D$

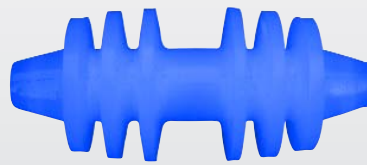


Pendulum pig "sphero"

DN 32 - DN 100 (1 1/4"-4")

Silicone (FDA)

Starting at $R = 3.0 \times D$



Pendulum pig "lamella shape"

DN 25 - DN 100 (1"-4")

Polyurethane PU

Starting at $R = 3.0 \times D$

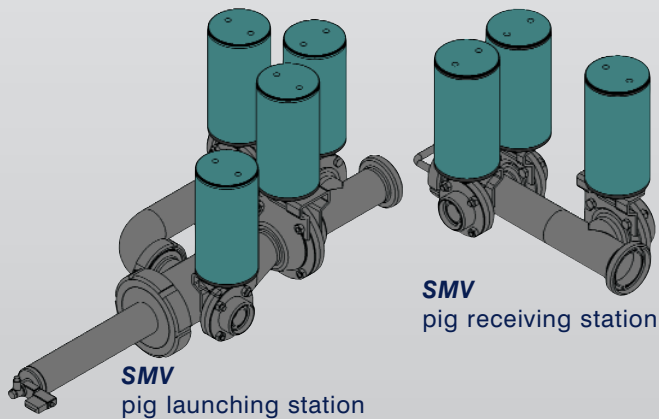


Pendulum pig "cylinder shape"

DN 65 - DN 200 (2 1/2"-8")

Silicone (FDA)

Starting at $R = 3.0 \times D$

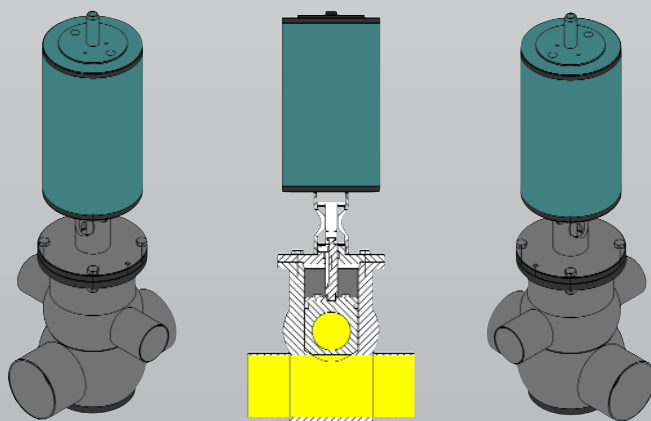


SMV pig launching and receiving station

Modular, compact design

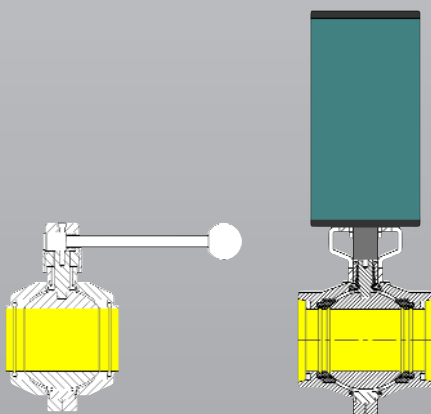
As an option with CIP/SIP function, i.e. the pig can be cleaned and sterilized in the closed system without removing it

Minimum number of components and wearing parts



Changeover valves suited for pigs

The design with minimized dead pockets allows pigging of space-saving valve clusters



2- and 3-way ball valves suited for pigs

High-quality shut-off and distribution components designed for the food industry; as an option with PTFE lining for dead pocket minimization, and with cleaning ports

Intelligent system engineering

As a manufacturer of high-quality inox valves and devices for the chemical, pharmaceutical and food industries we have opted for a modular design of our units in order to minimize the number of components and wearing parts.

Modifications and system extensions are thus easily accomplished.

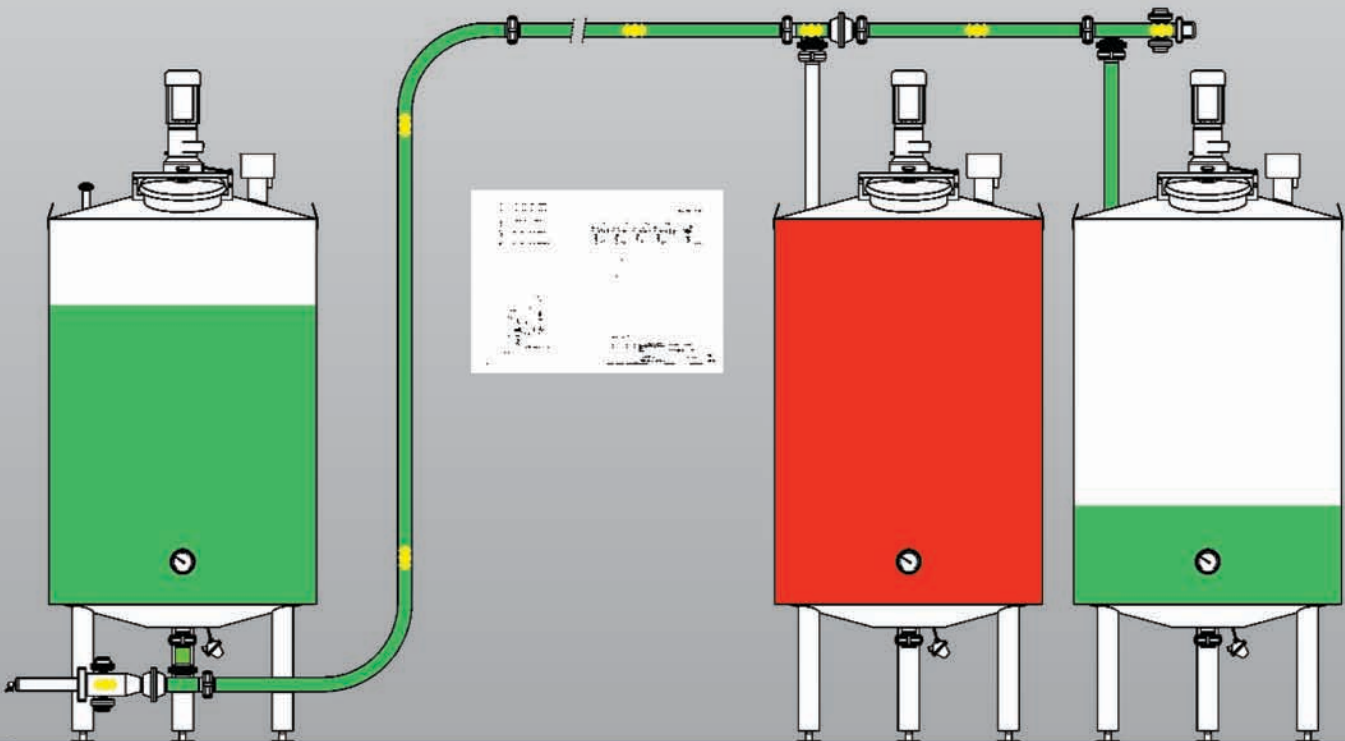
In service, pigging systems from *LIAG* stand out by their high operating reliability and low maintenance requirements.

Basis for every optimization

LIAG's delivery program – everything for pigging

- Planning and execution of pigging projects
- Interface coordination and process integration
- Inox valves, armatures and process units
 - 2-/3-way valves suited for pigs (Inox ball valves with minimized dead pockets and inox arc valves without dead pockets)
 - Inox pigging valves
 - Pig launching and receiving stations CIP/SIP
 - Pigs and pig sensor systems
 - Valve clusters / changeover valves suited for pigs
 - Valve systems for the peripheral units (butterfly, Y-valves, etc.)
 - Piping and assembly material

SMV pendulum pigging system



For further technical information please contact:



88709 Meersburg / Germany
Tel. ++49-7532-4326-0
Fax ++49-7532-4326-43
eMail info@laeuffer-ag.de
Internet www.laeuffer-ag.de

