KIESELMANN

Efficient pigging technology



ntspannung

Thorough savings



REDUCE WATER CONSUMPTION

savings potential of up to 80% of conventional water consumption



SAVE TIME when changing products, no mixing phases,

minimum cleaning time



REDUCE COSTS by reducing cleaning costs



PROTECT THE ENVIRONMENT Reducing the environmental impact by conserving resources

What is pigging technology?

In simple terms, this technique involves pushing an elastomer body (pig), which corresponds to the inner diameter of the pipe, through the product lines to the filler using compressed air or cleaning medium. In this way, the pipes are emptied almost completely.

Safe Recovery of Product

with KIESELMANN Pigging Systems

Quick, easy, absolutely reliable, and affordable. These are the essential demands on pipeline recovery systems. Safe and reliable product seperation is of importance if, for example, small batches are to be seperated in one and the same pipeline, or if valuable product is to be removed and recovered effectively prior to cleaning, and it is of particular importance if the product cannot drain by itself out of the pipe to be cleaned. In addition, it is of utmost importance to remove the product completely, if the cleaning process is to be implemented in such a manner as to keep adverse effects on the environment to a minimum.

Saving time and money rapidly and verifiably, by integrating the KIESELMANN pigging technology in your production. This technology guarantees an almost loss-free emptying of the pipelines. You will reduce the costs in the fields of cleaning, wastewater, energy, and owing to this, this results in a more efficient use of the raw materials.



PIGGING TECHNOLOGY FEATURES

- > Easy integration in available process plants
- Damping systems for gentle running of the pig into the stations
- Flow control with optimised cleaning in the stations
- Easy detection in the product pipe by means of Integrated solenoids in the pigs
- Pig can be led back by means of product / water / air
- > Available in hygienic and aseptic design
- > Environmentally friendly and resource-saving
- Closed launching and receiving station for integration in the cleaning cycles, including steam sterilisation





PRODUKT-VIDEO We show you how our pigging

technology works. Simply scan the QR code and off you go.



Save Separation of Product

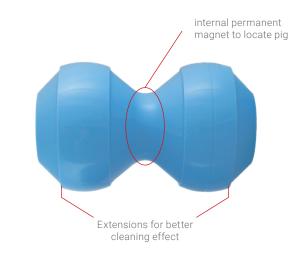
with KIESELMANN Pigging Systems

The patented KIESELMANN Duplex-pig is at the heart of KIESELMANN's Duplex pigging systems. It has been designed to permit forward and backward movement in the pipeline. The permanent magnet at the core of the Duplexpig coupled with sensor technology easily lets you monitor the position of the Duplex-pig in all system components.

The double-ball design gives the Duplex pig its optimised geometrical shape to effortlessly travel through standard 90° bends and tees. In order to perfectly adapt to its environment, its diameter is adjustable and thus can snugly fit the inner pipe wall. The outcome is the safe product separate and effective cleaning.

Due to these performance features and especially due to its sanitary design, the Duplex-pig is predestined for applications in the food and beverage industries. In addition, it will help to significantly reduce the cleaning time and cleaning agents used and thus will lower costs and the environmental impact.

Aseptic duplex pigs moulded in one piece are available for the most demanding production requirements.





Pigging systems in lubricant production

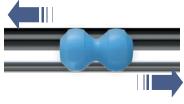


ASEPTIC-DUPLEX-PIG

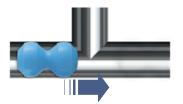
- > Our Aseptic-Duplex-Pigs are seamlessly moulded from elastomers as full bodies in solid design.
- Magnets, encapsulated in stainless steel, for detection from outside, by means of magnetic- inductive sensors, are integrated as standard version in each pig.
- All types and materials are delivered with FDA conformity / FDA approval certificate.
- In addition to the KIESELMANN Aseptic-Duplex-Pig for high and highest demands, further types and materials are available for almost every application in the food, beverage, cosmetic, pharmaceutical and chemical sectors

TECHNICAL DATA

Dimensions: Materials of pig: Materials of stations: Pressure rating: DN 40 - 100 Silicone (FDA) 1.4404 / AISI 316L PN 6



applicable in both directions



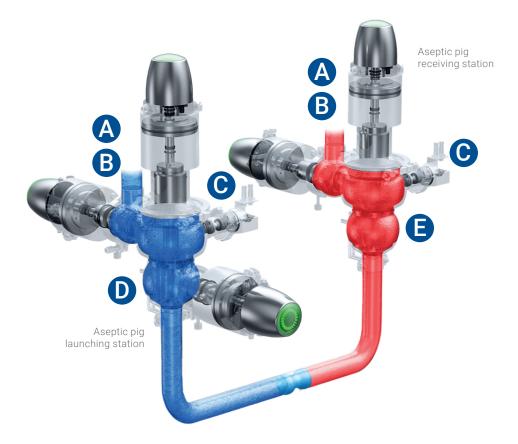
easy pigging over T junctions



Pigging of DIN bends without product mixing

Aspetic-Duplex-Pigging Launching and Receiving Station

- A. CIP/water inlet/outlet
- B. Product line
- C. Compressed air (connection for sterile air)
- D. Position of pig in the launching station
- E. Position of pig in the receiving station



LAUNCHING AND RECEIVING STATION

- > Design and execution consequently according to aseptic standard
- Hermetic separation of product area / surrounding area with the GEMBRA diaphragm technology in the stations
- > Advanced PTFE diaphragm technology
- Pig and sealing materials generally with FDA conformity or FDA approval respectively
- Individual production adapted to your requirements or technical requirements respectively
- Economically best solution, because no steam is required for sterile lock



Automation of Pigging Systems

IWith the increasing trend towards fully computer controlled automation of process plants, KIESELMANN's Duplex pigging systems of course can be used in fully automatic operations.

As a perfectly fitted module in a plant and its control systems, the Duplex pig will independently and reliably complete its tasks, whereby it does not matter whether it is to be integrated in a master control or whether it is to be operated via an autonomous control system. In addition to a standard control system design, KIESELMANN also offers the capability to integrate the Duplex pigging system into a modern field bus system. To do so KIESELMANN has developed the electronic control KI-TOP specifically for valves.

This valve control provides the intelligence to realise automation of the Duplex pigging process right onsite. With KIESELMANN's automation technology you will be in the position to easily realise a significant reduction in time and labour required for wiring, a reduction in installation times; you will simplify the start-up, enjoy extensive yet easy-to-use error analysis capabilities, and above all you will increase your system's safety and save up to 30% in costs for the control system.





Piggable double seat valve



KIESELMANN valve control KI-TOP with SPS or ASI-Bus control

AUTOMATION TECHNOLOGIES

- > Duplex-Pigging-Stations and controls from one supplier
- > Sensor technology to locate pig
- > Variable design of KIESELMANN's standard fittings
- > Actuator valve control with SPS or ASI-Bus control
- Maintenance-free pneumatic multiturn actuator with 5 year functional warranty.



KIESELMANN online shop

From anywhere and at any time: search, find, enquire and order.

With over 8,000 items at your fingertips, our online shop offers a wide range of products.

KIESELMANN GmbH

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