

JAG MS Pigging system

Pigging systems are becoming increasingly important, because the advantages are obvious:

- Low-loss purging processes in pipeline systems for high-value or high-risk products.
- Marked increase in productivity owing to low-intermix transfer of consecutive different products via the same pipeline system without intermediate cleaning.
- Avoidance of product rework, or improved yield.
- Reduced need for solvents for cleaning processes.
- Less contaminated waste water, as solids are able to be recovered prior to cleaning.

JAG Jakob AG Prozesstechnik, your partner for plant engineering and automation, is setting new standards in pigging technology

The "JAG MS" pigging system consists of five components, which can be used as required, and a pigging control system:

JAG MSS	Pig launching station
JAG MSZ	Pigging branch piece
JAG MSE	Single pig receiving station
JAG MSD	Double pig receiving station
JAG MSR	Pig reversing station
JAG MSK	Pigging control system

Features of the JAG MS:

JAG MS is made in accordance with hygienic design principles and has no unmonitorable dead spaces.

Path switching take place by means of dual pig technology, i.e. by means of a positioning pig and a purging pig. The system can be augmented by adding a third pig.

The pig reversing station propels the pigs back to the launching station. For unidirectional pig movements, an augmented pig launching station can be used. This results in increased productivity, as the pigs are returned via a separate return line.

The pigs are able to be cleaned inline in the launching station, together with the pipeline. Thus there is no need to remove the pigs from the pipeline system for cleaning.

The pig launching station and the reversing station are fitted with connection nozzles for rework recovery.

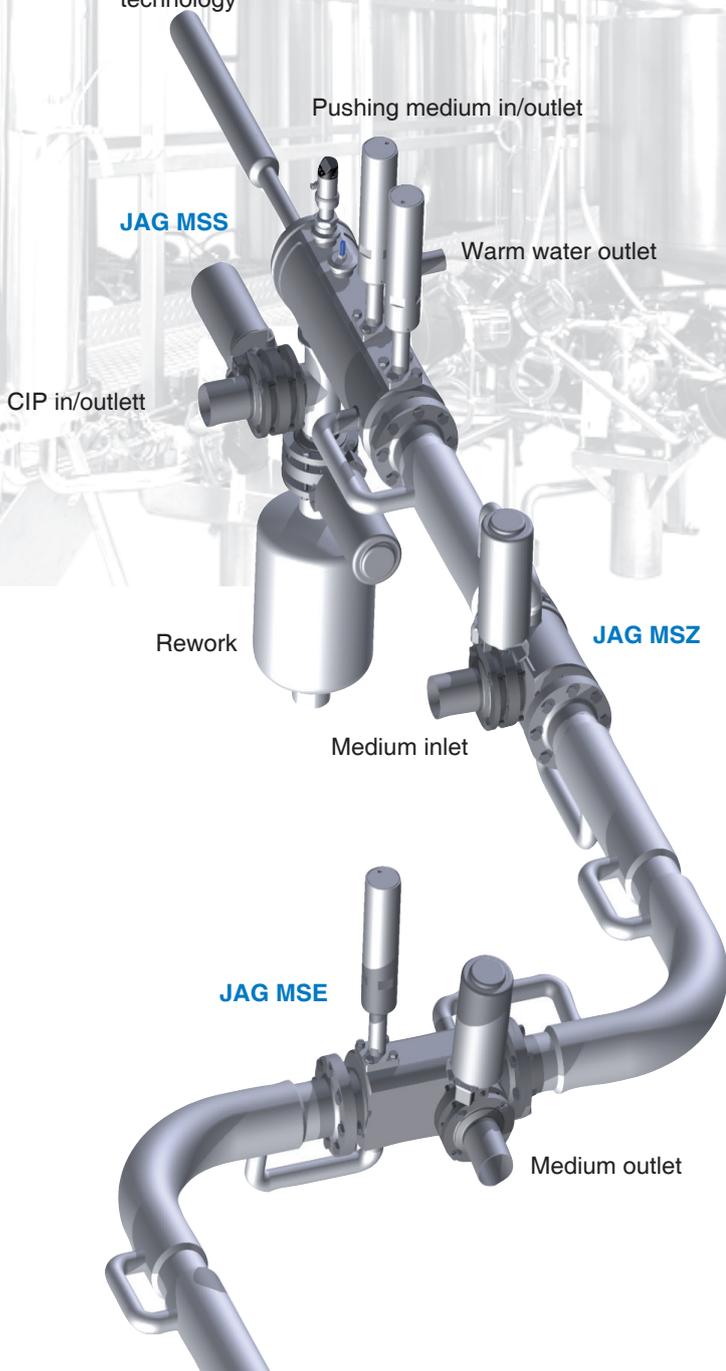
For servicing, the pig launching station and the reversing station can be opened using a clamp fastener.

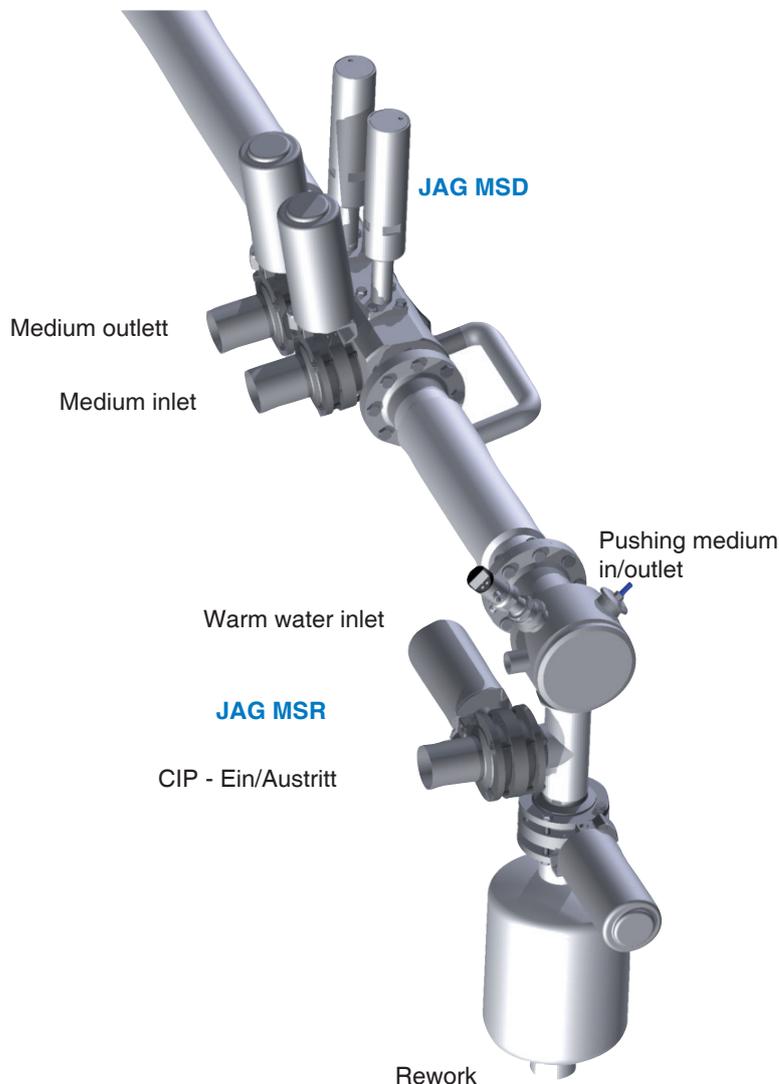
JAG MS components feature an integrated channel system for trace heating using warm water.

All components are fitted with sensors for ascertaining the positions of the switching elements.

By means of the pigging control system, the pigs are pushed to the monitored destination positions at a definable speed.

The robust design of the switching elements and the use of low-maintenance valve engineering reduce servicing and investment costs.





Characteristics

JAG MS is available to DIN 11850 in the dimensions:

- DN 50
- DN 65
- DN 80

Custom designs by request.

The components are made of the material 1.4404 / 316 L.

All seals on standard builds are made of EPDM. Other materials by request.

Pushing media that can be used are air, water, CO₂, N₂, etc.

Depending on the field of application, the pigs are made of the following materials: high-grade silicone, HNBR, Alkozell, EPDM or Viton.

The modules are suitable for use with or without trace heating/cooling. (water)

The components are designed for automatic cleaning (CIP) from a central cleaning unit. Operating temperature is up to 80°C.

Fields of application

JAG MS is used in the following areas:

- Food industry
- Pharmaceuticals industry
- Chemical and other industries.

Depending on the field of application, JAG MS is used with trace heating. (e.g. chocolate industry)

Pigging control system

A pigging control system is available for controlling the JAG MS.

It controls the control valves, pig positioning and product-dependent pig speed.

Where compressed air is used as a pushing medium, the pig is moved by means of controlled pressure on the primary side and on the secondary side as well as by the air quantity supplied per time unit.

