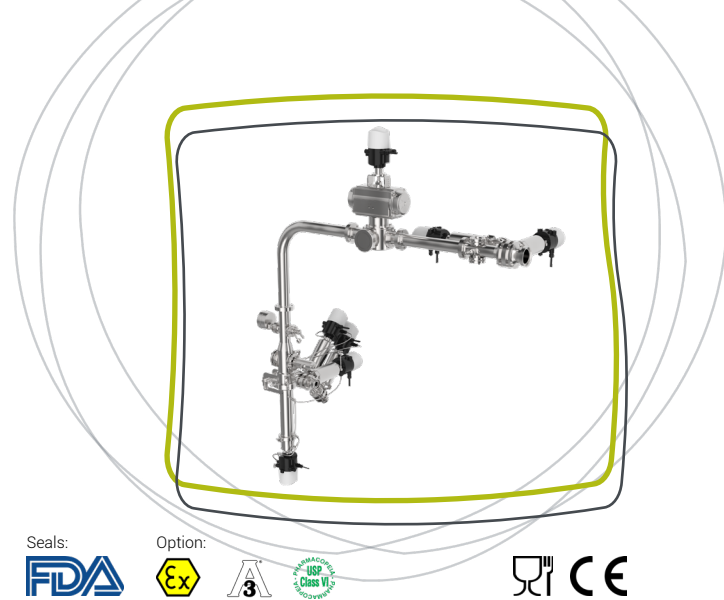


XSR[®]

Pigging system for process or transfer lines and all types of fluids



Presentation

Seals:



Option:



The Servinox pigging system is designed to fit perfectly into transfer lines, and is designed to recover the residual mass in the pipe by use of a pig. The pig is positioned upstream of the area to be evacuated, then propelled through the pipe by a propellant fluid (gas or liquid). The standard equipment consists of an in-line launching station, a receiving station and a pig. It can be supplemented by full-flow multi-way valves, which allow the lines to be adapted to optimise the pigging phases. Pigging can be controlled either manually or automatically using a pig speed control unit.

Key features

- Reduced product losses (recovery greater than 99.5 %)
- Pigging of all products conveyed in a pipe (viscous, laden, solidifying, etc.)
- Greater flexibility in the use of lines by reducing the risk of cross-contamination
- Elimination of the dilution phenomenon induced by water pushing without a pig
- Reduction in the volume of effluent to be treated
- Reduced consumption of cleaning agents and washing cycles
- Reduced operating costs and return on investment from the first year of use
- Tailor-made system to suit all requirements and constraints
- Modularity and possibility of having several supplies and several product distributions on the same line

Applications

- Pigging on transfer lines for all types of liquids
- This equipment is particularly suitable for lines dispensing viscous, laden and/or solidifying liquids (creams, chocolate, caramel, paints, lubricants, etc.)

Technical features:

The backbone of the pigging system includes the launching and receiving stations which are available in different versions to suit the chosen configuration (see page below).

Sizes:

- SMS/OD: 25 mm (1"), 38 mm (1,1/2"), 51 mm (2"), 63.5 mm (2,1/2"), 76.1 mm (3"), 104 mm (4")
- DIN 11850: DN 25, DN 40, DN 50, DN 65, DN 80, DN 100, DN 125, DN 150

Connection: Male

Maximum allowable pressure: 10 bar up to DN 100, 8 bar in DN 125 and 6 bar in DN 150 (group 2 gaseous fluids: art. 13, 2014/68/EU) depending on the launching station

Operating temperature: From 1°C to 120°C

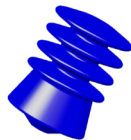
Propellant fluid: Gas or liquid

Orientation of stations: Vertical

Materials

- Parts in contact with the product: Stainless steel 1.4404 (316L)
- Other parts: Stainless steel 1.4301 (304L)
- Sealing: EPDM, FKM, Silicone, NBR depending on compatibility

Pig



The patented Servinox pig is bi-directional. Its asymmetrical shape is designed to optimise its operation when subjected to the counter-pressure of the product being pushed.

Materials

- Elastomer material and colour: VMQ [Silicone] (blue)
- Elastomer hardness: 50 shore
- Magnetic insert: Neodymium

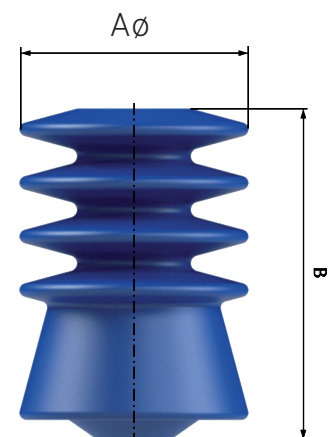
Pig dimensions in mm

SMS/OD pig

Sizes	25 mm	38 mm	51 mm	63.5 mm	76.1 mm	104 mm
Tubes	25x1.2	38x1.2	51x1.2	63.5x1.5	76x1.6	104x2
ØA	23± 0.35	36.7± 0.4	49.6± 0.5	61.7± 0.5	74.3± 0.7	102± 0.8
B	40± 0.4	62.7± 0.5	71.7± 0.7	91± 0.7	107.5± 0.8	144.4± 0.8

DIN pig

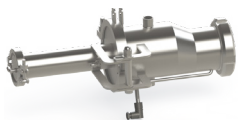
Sizes	DN 25	DN 40	DN 50	DN 65	DN 80	DN 100	DN 125	DN 150
Tubes	29x1.5	41x1.5	53x1.5	70x2	85x2	104x2	129x2	154x2
ØA	26.5± 0.35	39.5± 0.4	51± 0.5	67.3± 0.7	82.6± 0.7	102± 0.8	127.5± 0.8	153± 0.8
B	42± 0.5	61.5± 0.5	74.7± 0.5	95.5± 0.7	117± 0.8	144.4± 0.8	178.7± 1.3	225± 1.6



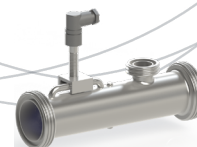
ISO pig

Sizes	DN 25	DN 40	DN 50	DN 80	DN 100	DN 125	DN 150
Tubes	33.7x1.6	48.3x1.6	60.3x2	88.9x2	114.3x2	139.7x2	168.3x2
ØA	31.1± 0.4	46± 0.5	57.4± 0.5	86.7± 0.7	112.5± 0.8	138.4± 0.8	169± 1.2
B	47± 0.5	66.4± 0.7	84± 0.7	124± 0.8	163± 1.1	202.5± 1.4	255± 1.8

Possible configurations



Automatic two-way pigging



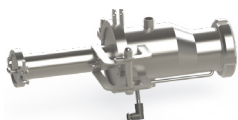
Pigging with integrated CIP



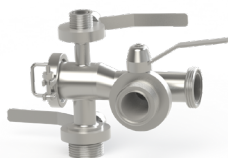
Multi-way isolating valves



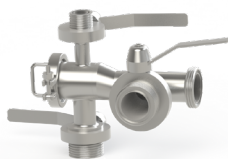
Intermediate receiving station "tank selection"



Pigging of laden or sensitive products



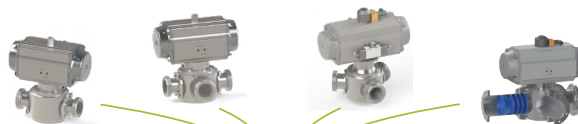
Manual one-way pigging



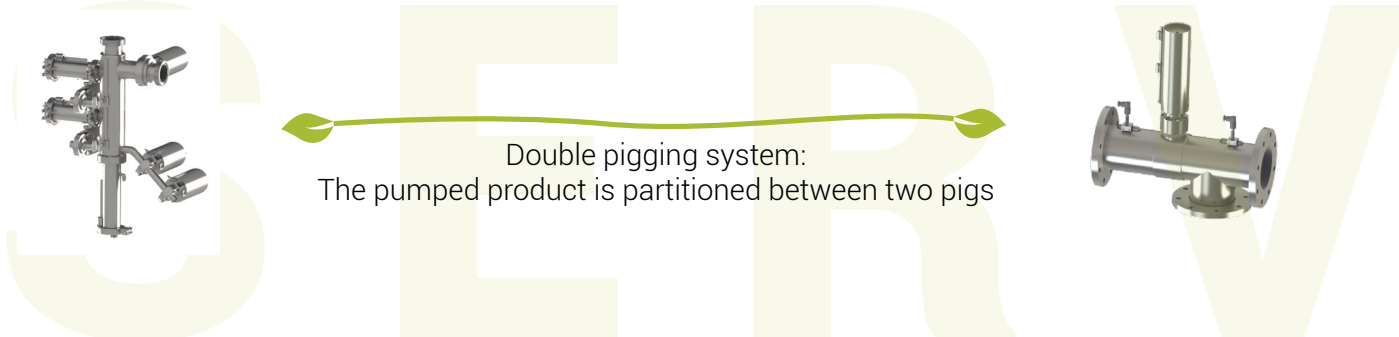
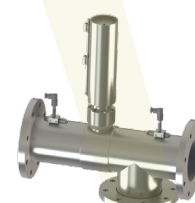
Manual two-way pigging



Hybrid pigging: Pigging/pumping in both directions

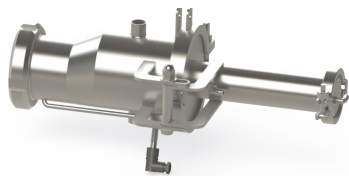
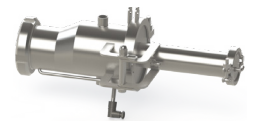


Double pigging system:
The pumped product is partitioned between two pigs





Reverse pigging:
Pigging in the opposite direction to pumping



Loop pigging

Options

- Traceability: laser marking of pig serial number on request for identification purposes
- Safe use of pigging system in automatic condition
- Heated launching station body (double-walled): Circulation of heating fluid to prevent the process fluid from solidifying in the stations
- Station orientation: horizontal or oblique
- CIP inlet connection/tapping on station
- Isolation of the launching station from the process fluid: see multi-way valve reference. sheet
- Pig speed control panel: see pig speed control unit data sheet
- Intermediate station or distribution valve
- Surface finish less than 0.8 μm
- "ATEX 2014/34/EU, zones 1 & 2, gas and dust" compliant on request
- Other seals: VMQ (Silicone), FKM (Fluorocarbon rubber, eq. Viton®) or NBR (Nitrile rubber)
- Other pig qualities and colours: FKM (black), EPDM (black), Nitrile (white or beige), PTFE filled silicone, (grey), ferrite filled silicone (dark blue), special blends on request
- Other fittings: Aseptic flange, female, clamp, flange, etc.
- Other piping standards: on request
- Customised equipment: please contact us

Warranty

12 months as from the date of dispatch (except for special conditions).

Conformity

- Elastomer seals compliant with FDA CFR 21.177.2600 and Regulation (EC) 1935/2004
- Option: "ATEX 2014/34/EU, zones 1 & 2, gas and dust" compliant
- Option: BNIC compliance
- Option: 3A compliance, number 101-00
- Option: Membranes compliant with USP Class VI

Non-contractual document and visuals, subject to change without notice.

Only the commercial offer and the technical manual supplied with the equipment may be used for technical and legal purposes.