

# CHOCOLATE MARKET



**C**hocolate is a product that constantly reinvents itself by offering ever more novelties, tastes, and different textures.

To meet the demands of new consumers, it must be able to offer products without allergens, organic, or vegan.

The industrial manufacturing tool must be increasingly flexible, meet high-quality standards, but it must also take into account the constraints of this delicate product.

- ✓ Prevent solidification in the production lines.
- ✓ Allow the transfer of chocolates with different compositions without cross-contamination.
- ✓ Enable better traceability of cocoa and raw materials.



+33 (0)2 98 51 20 38

[www.ab6-fluidprocess.com](http://www.ab6-fluidprocess.com)



The expertise  
of a designer  
and manufacturer

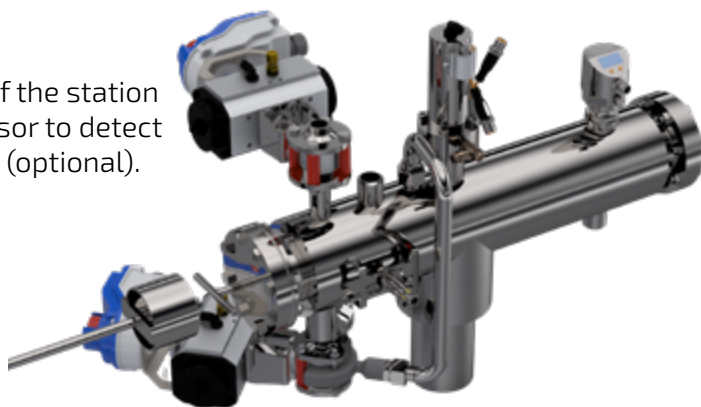
# AB6 Solutions



## SINGLE-PIG SYSTEM.

Secure opening of the station  
Possibility of sensor to detect  
station's opening (optional).

Tool for mounting and  
dismounting the station.



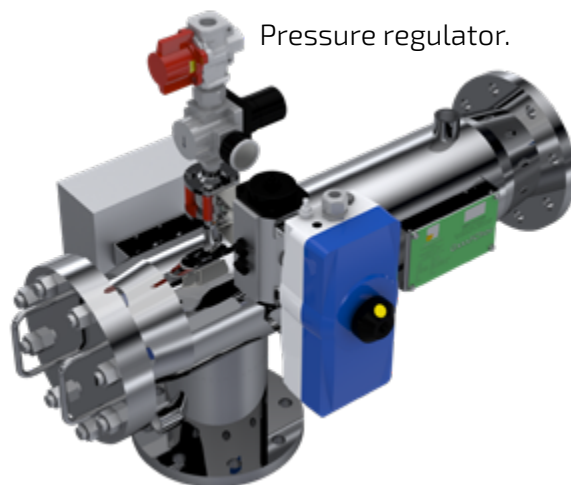
**J**acketed departure station T design  
Inlet and outlet connection with aseptic flanges.

**P**ig in 3 parts  
with 2 removable lip seals.



Isolating valve  
of the pig.

**J**acketed switching station.



Pressure regulator.

**J**acketed arrival station T design.

- ✓ Design in 316L (1.4404)
- ✓ From ND25 to ND200
- ✓ SMS, DIN, ISO, OD, ANSI, SCHEDUL standard
- ✓ Manual or automatic
- ✓ Double ou single jacket
- ✓ Conformity with FDA CFR 21 and CE1935/2004/CE



# AB6 Solutions



## A B6 PIG.



Our pig is made of 3 rigid parts, therefore, it undergoes no mechanical deformation related to the pushing fluid or accidents along the way. Thanks to its design, its passage through short-radius bends (up to 1.5D) is facilitated. The required pushing pressure is remarkably low, which helps minimize operating costs. The advancement remains consistent even when passing through obstacles like bends and tees, and the quality of pigging is improved.

The combination of the rigid body and encapsulated magnets eliminates the risk of magnet detachment during the reception of pig into the stations. The magnetic field remains constant over time, ensuring reliable detection.

We only use bar-type magnets, which:

- ✓ Are inert to process fluids thanks to an epoxy coating and a fully sealed body.
- ✓ Are easily detectable. The total length of the pusher is defined by the bipolar magnetic field created by the magnets. ont facilement détectables.

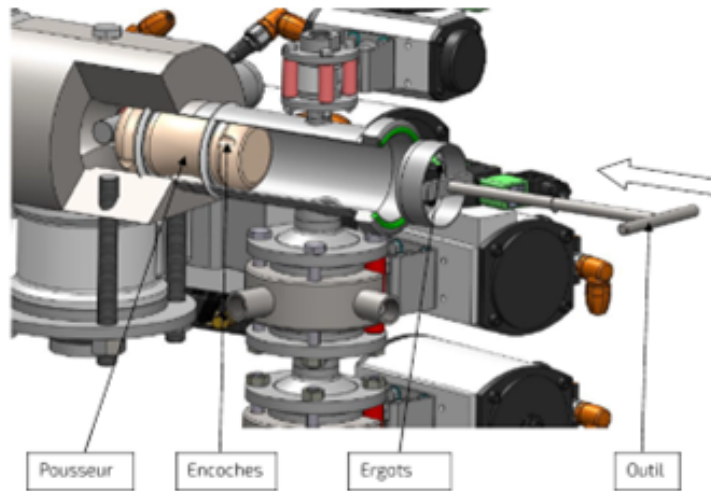
The tightness of the pig is ensured by two profiled elastomer lips. This profile, specifically designed with a leading edge, allows for effective mechanical pigging of the pipeline. The lips are the only wearing parts of the pig.

**(Low maintenance costs).**





## SPECIFICITIES OF OUR PIGGING STATIONS.



✓ Easy extraction of the pig from the station thanks to a specific tool connected to the station with a chain (see visual).

✓ To ensure the initiation of the pigging cycle with a leakproof pig, it is possible to perform a lip seal integrity test before (can be done using a blocking actuator or a ball valve to isolate the pig).

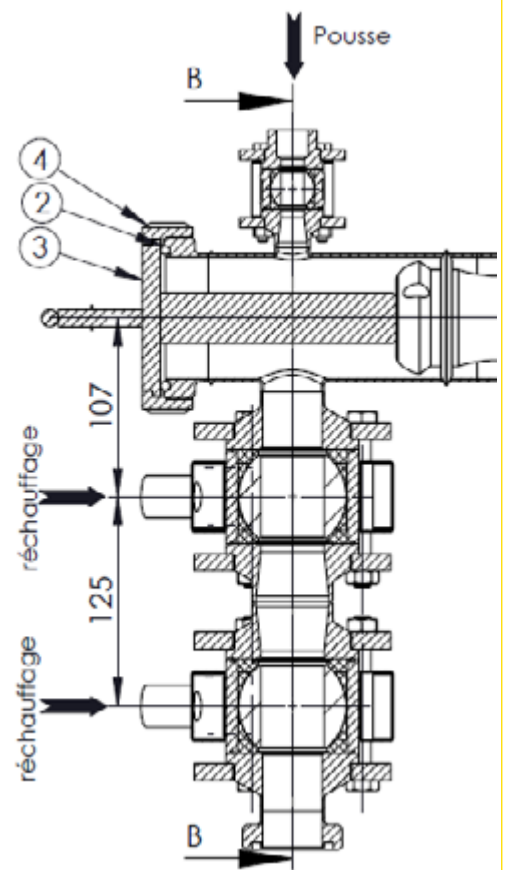
Since the pig is sealed within its storage area, it is possible to open the pushing valve and check downstream using a pressure sensor for the presence of any air leak. If a leak is detected, the pig's seals must be replaced.

This approach optimizes the lifespan of the seals by replacing them only when necessary, as a curative measure.

✓ Possibility to perform maintenance on the pig during production using the isolating valve.

✓ The jacketed stations are systematically equipped with draining and decompression valves equipped to prevent the chocolate from solidifying during the decompression phases (cooling).

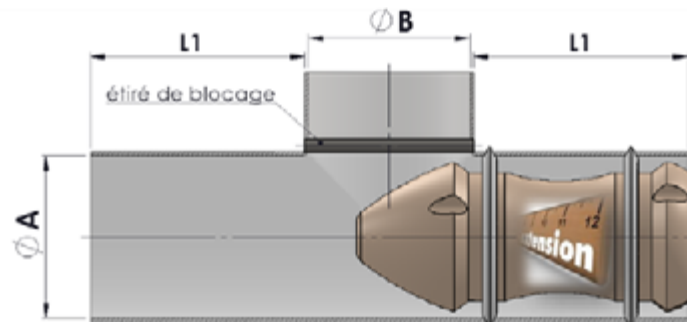
✓ 2 draining valves. One of which is perforated to limit the speed of the pig during its return to the departure station.





## SIMPLIFIED REQUIREMENTS.

- ✓ AB6 pig is designed for standard elbows with a bend radius 1.5D :  
ND 51 SMS (51x1.2) => Minimum bend radius 76 mm  
ND76 SMS (76.1x1.2) => Minimum bend radius 114mm
- ✓ It is not necessary to weld guide sections at the level of piggable Tees:  
A standard reduced Tee is perfectly suitable.  
Therefore, the Tees can be provided by the pipefitter to avoid fittings on the piggable line.
- ✓ In the scenario where equal Tees are present on the piggable line, it is imperative to use an extended pig to ensure a proper seal as the pig goes through the Tees. In this case, 3D bends should be used on the pipeline.



## TECHNICAL COMMISSIONING BY AB6: GUARANTEE OF OPTIMAL PERFORMANCE.

- ✓ After the installation of the pigging system, an ABSCISSE technician performs on-site commissioning of the installation and adjust the push pressures. The operators are trained during this intervention.
- ✓ This intervention ensures the functioning of the pigging and/or provides you with corrective solutions to optimize your pigging installation.



# OUR REFERENCES



## FERRERO

