

SATRON PASVE Cs Consistency Transmitter Mounting & Service Valve

Improving Worker Safety



PASVE® Cs is a ball-type mounting and service valve for the Satron VCT optical consistency transmitter offering numerous advantages over standard insertion type devices. Its special ball valve construction allows the safe and easy insertion and removal of the transmitter without interrupting the process.

Developed from over 30 years of experience with the proven Pasve design for process sensors like pH, pressure and conductivity, Pasve Cs greatly improves worker safety with installations in high pressure pipe lines.

Safe transmitter insertion

Unlike direct insertion ball valve installation methods, Pasve Cs totally isolates the transmitter probe from the process before insertion or removal. Operation is not affected by the presence of process pressure or high consistency slurries. Checking, cleaning and maintenance of transmitters can be safely conducted with the minimum of training as the transmitter can only be removed from Pasve Cs when isolated from the process.

Especially important with corrosive and toxic chemicals, the process medium can be drained from the valve and the measuring head of the transmitter can even be flushed clean before removal. Featuring double fly out protection, Pasve requires no safety chains or cables and the removable handle prevents unauthorized or accidental removal. When in the measuring position, removal of the transmitter is mechanically prevented.

Reliable operation

The valve can be mounted using a single flange or welded to the process pipe with the ideal 15° angle to the flow for the best measurement condition. The collar and locking mechanism allows the transmitter to be inserted with the tip past the pipe wall for accurate consistency measurements. Uniquely shaped PTFE and graphite gaskets clean the ball surface and resist grinding effects of solid particles.

Double process seals in the ball and double shaft seals not in contact with the process increase safety with installations in corrosive environments.

The mechanical stopper preventing fly out is never in contact with the process medium and retains integrity even if the transmitter is damaged. All seals and gaskets are field replaceable.

PASVE highlights

Ball-type mounting & service valve for SATRON VCT optical consistency transmitters.

Simple to disconnect the transmitter from the process for maintenance and cleaning, without stopping the process or draining the pipe.

Offers greatly improved worker safety with high pressure pipelines and toxic chemicals.

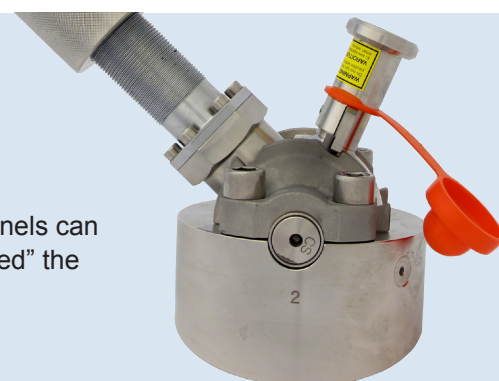
Measuring position

- Double shaft seals
- "Fly out" stopper
- Removal prevention while in measuring position
- Double process seals



Service position

- Sensor removal
- Sensor cleaning
- Pasve body channels can be utilized to "bleed" the mounting valve



PASVE® Cs is a ball-type mounting and service valve for the Satron VCT optical consistency transmitter offering numerous advantages over standard insertion type devices. Its special ball valve construction allows the safe and easy insertion and removal of the transmitter without interrupting the process.

Technical Specifications

Transmitter connection

G1 female, seat accepts SATRON VCT transmitters with P1 process connection.

Max. operating pressure/temp.

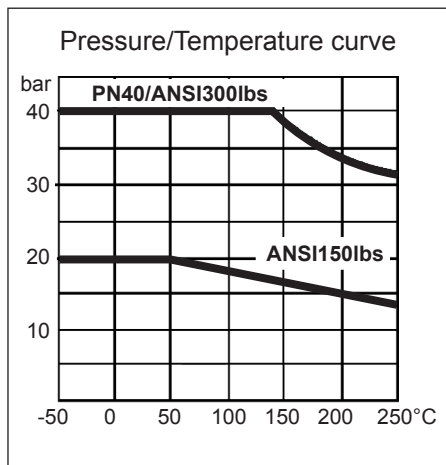
Pressure 40 bar, temperature 250°C, (see the appended table).
Min. operating temp. -50°C.
VCT 150° PN25.

Materials

Wetted parts: AISI316L, Duplex, Titanium, for F type. Seals PTFE or PTFE with carbon and graphite filling.

Weight

PASVE Cs 4.3 kg



Selection table

PASVE Cs

Body

N Flushing (with 2 seals)

Mounting

Code	Type	Wetted parts (B)	
		Code	Material
B	Welded 15°	2	AISI316L (std.)
F	On flange	6	Titanium
		8	Duplex

Flanges		Wetted parts	
Code	Type	Code	Material
D	DN80 PN40	2	AISI316L
A	ANSI 3"/150 lbs	6	Titanium
B	ANSI 3"/300 lbs	8	Duplex (EN 1.4462)
H	ANSI 4"/150 lbs		
G	ANSI 4"/300 lbs		

Seals

0	PTFE + 20C + 5Gr (std.)
1	PTFE 100%
4	PTFE + 20C + 5Gr / AISI316 / PTFE 50 % (Hard)
5	PTFE 100% / AISI316 / PTFE 50% (Hard)
6	PTFE 100% / PVDF 100% (Hard)

Pt100 temperature sensor

0 No sensor

Actuator

MD No actuator (manually operated)

Position switches

0 None

Options

Z1 For oxygen use Z4 Cutting ball

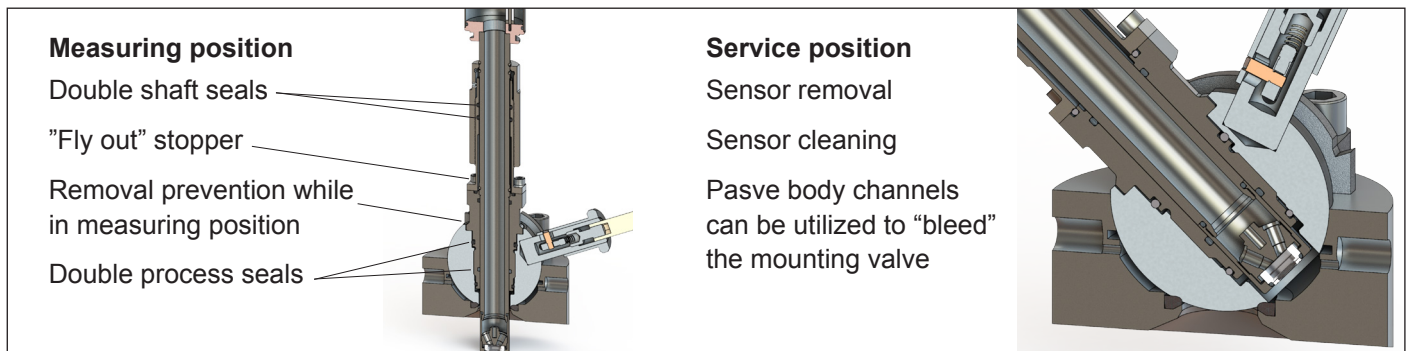
Documentation

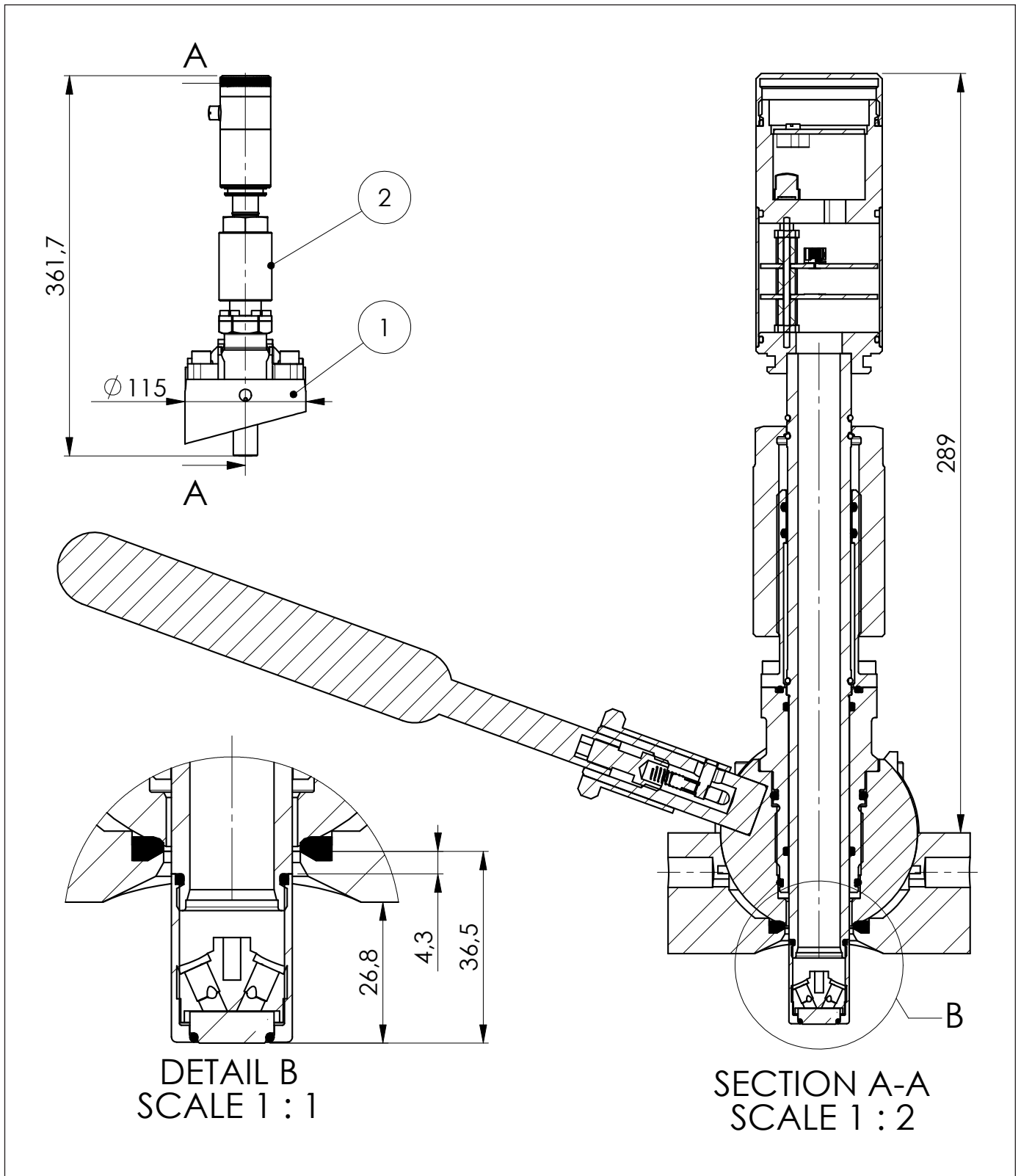
IE English

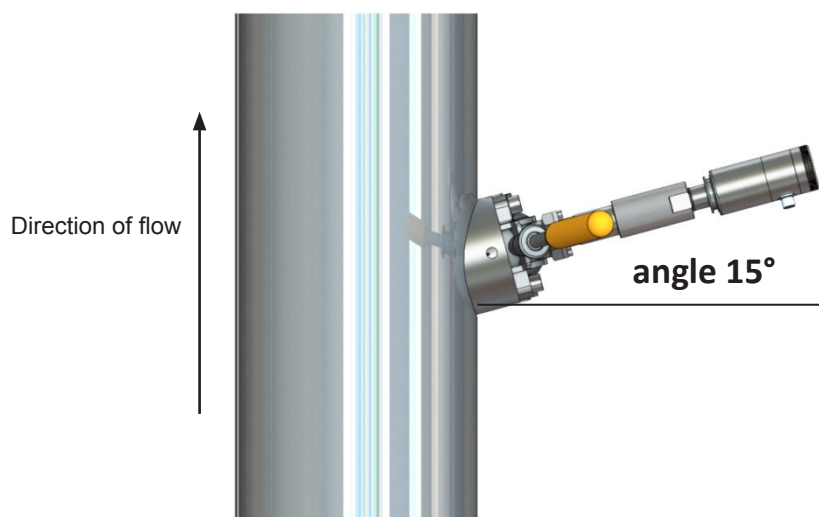
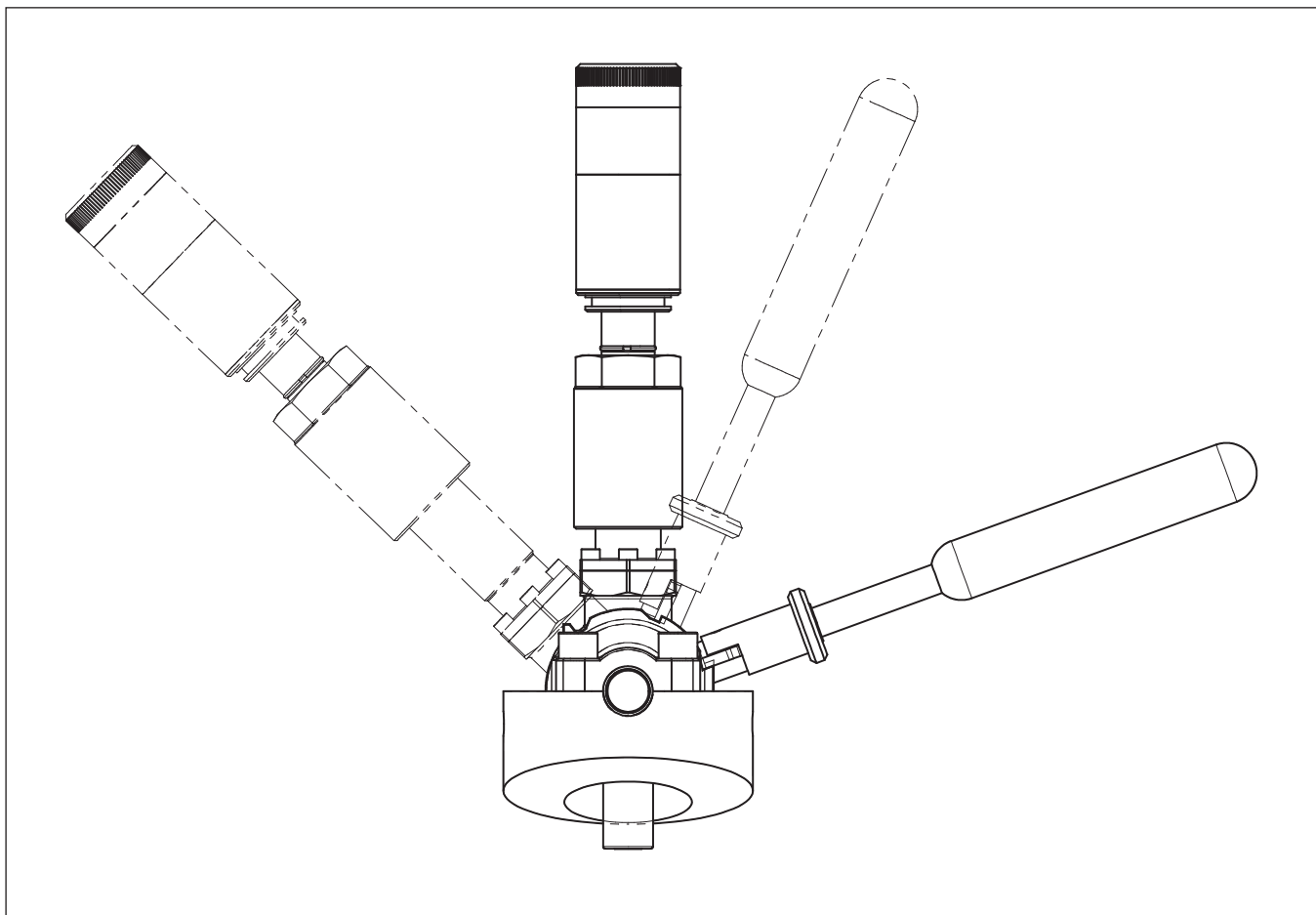
Material certificates

0	No material certificate	MC2	SFS-EN 10204-2.2 (DIN50049-2.2)
MC1	SFS-EN 10204-2.1 (DIN50049-2.1)	MC3	SFS-EN 10204-3.1B (DIN50049-3.1B)

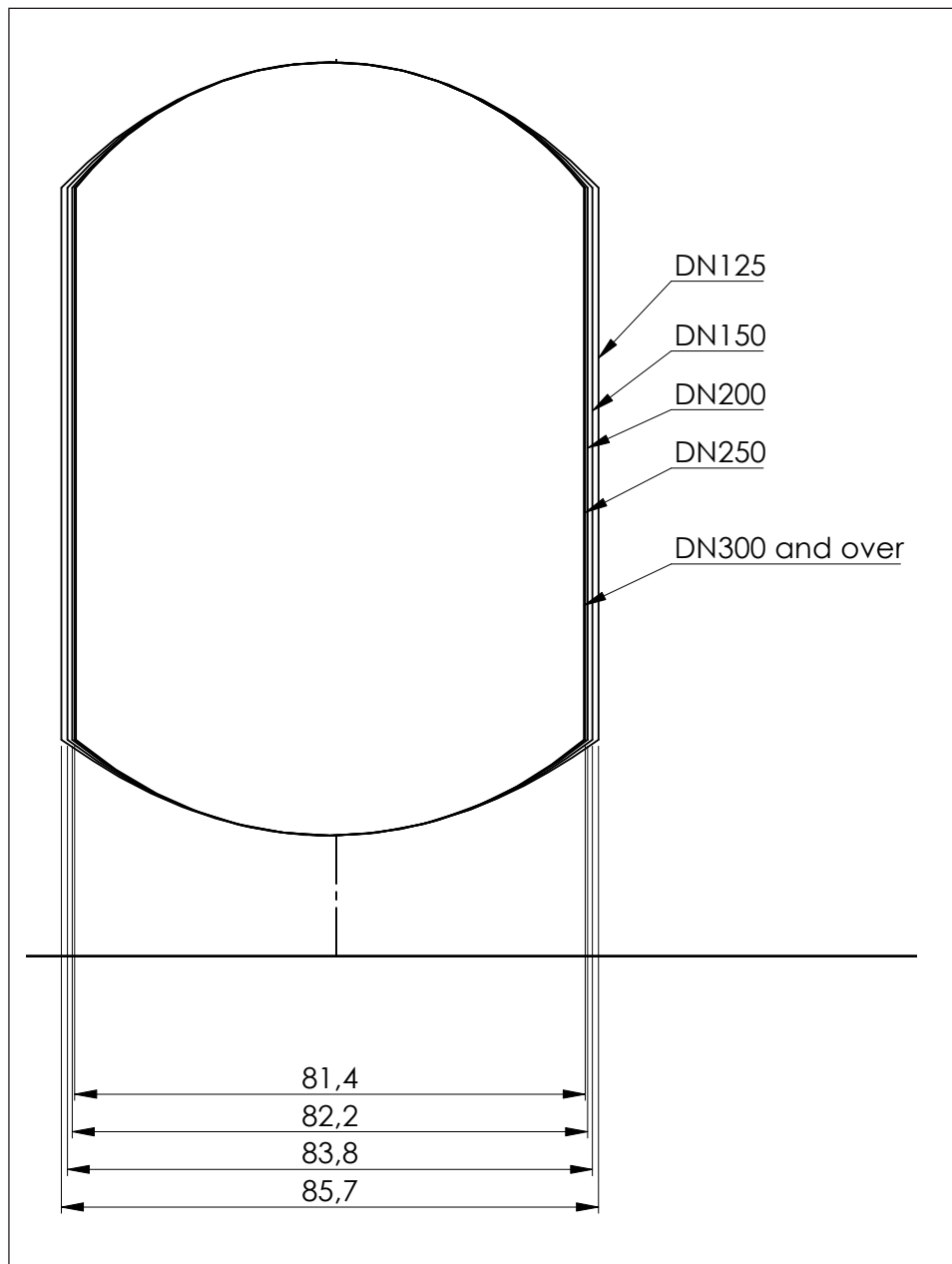
Specification example: PASVE Cs N FD2 0 0 0 Z1 IE MC1



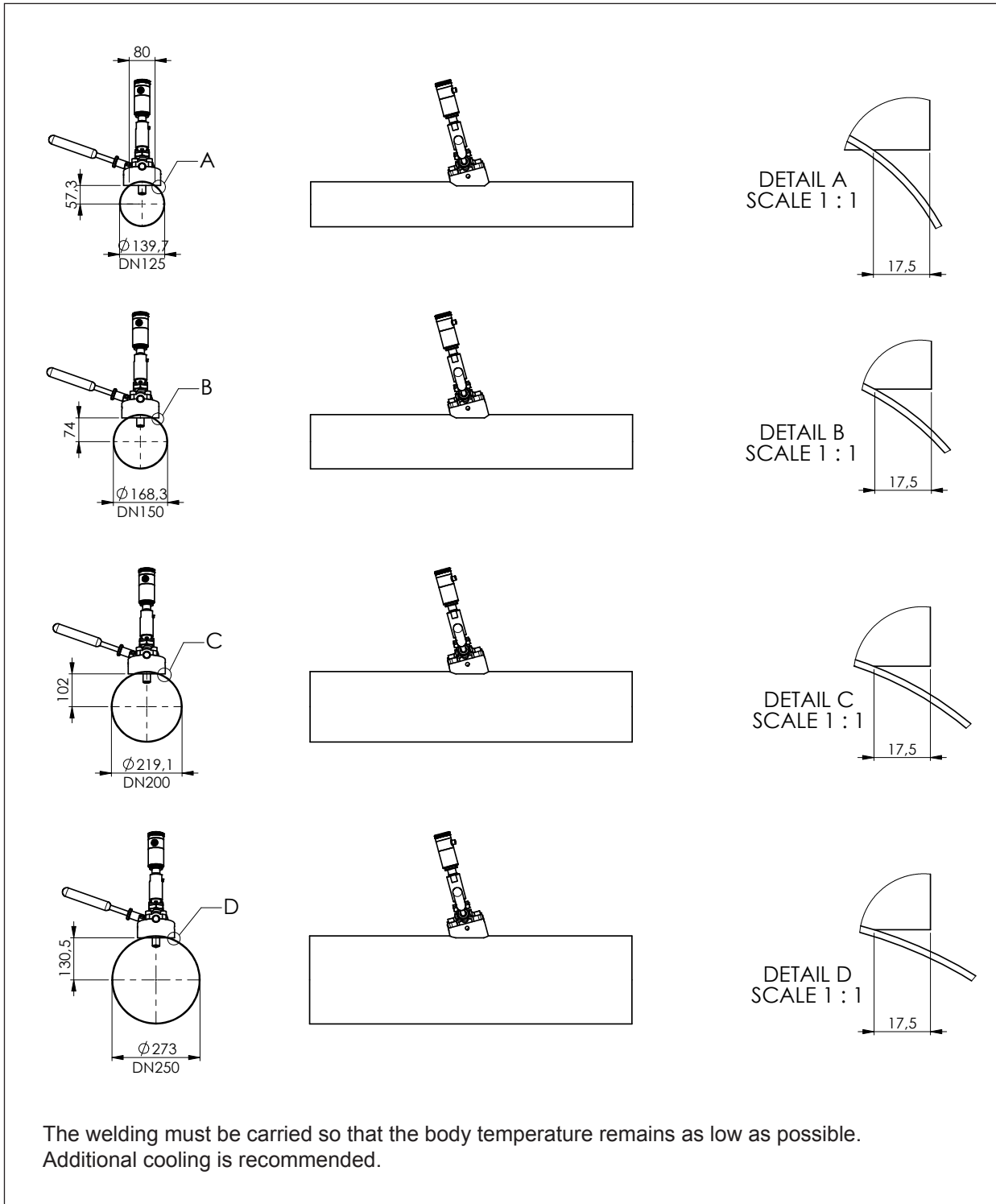


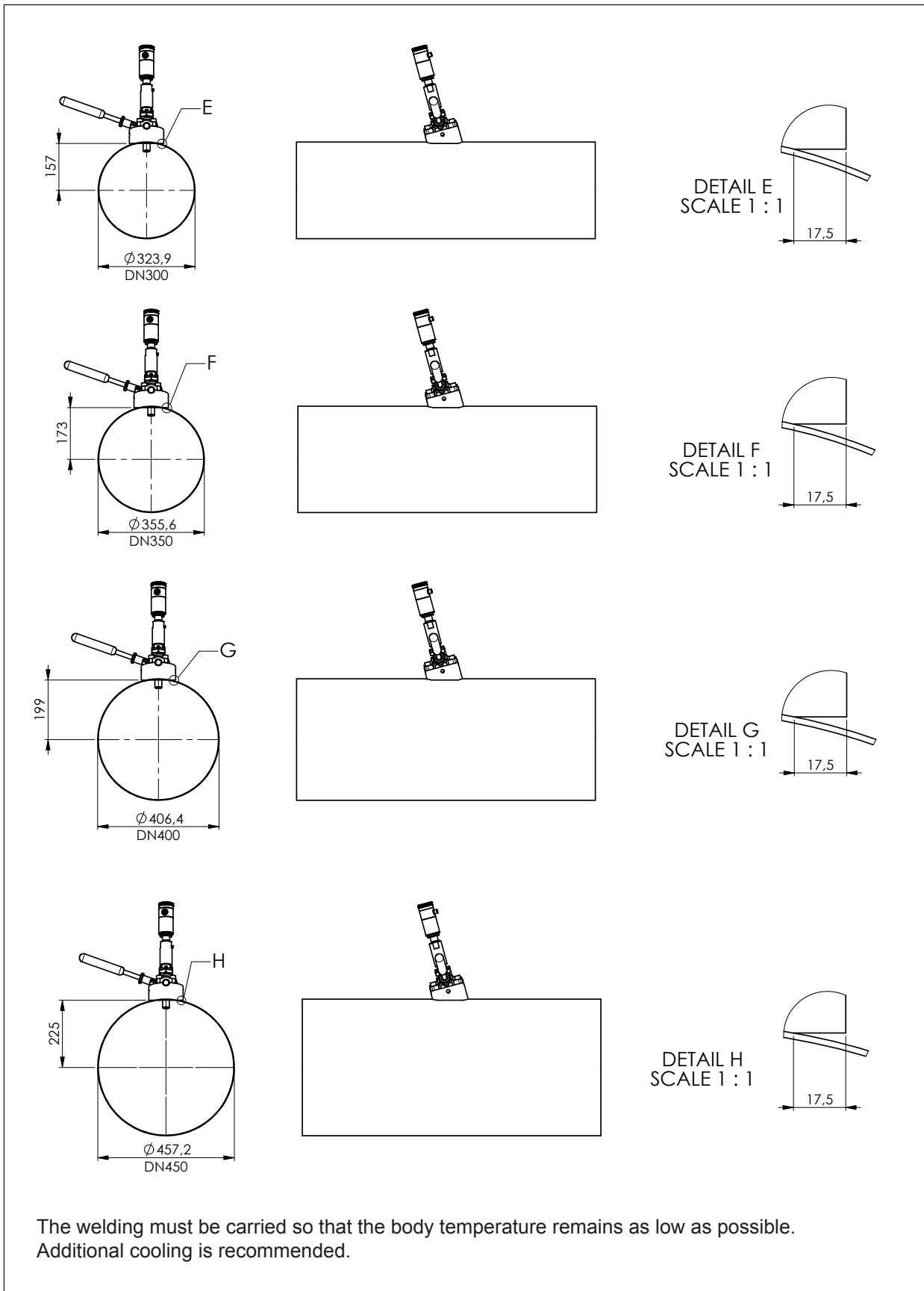


Pasve Cs pipe cutout dimensions



Pasve Cs mechanical installation





Typical installation with Pasve Cs and the Satron VCT optical consistency transmitter.

Also shown is a Satron SAVE sampler for the controlled and safe extraction of representative pulp samples from the pipe line.

