

## 8.2 Series IBF-100 for Flue Gas Emissions to 235 psi (16bar)

### Description

The ITABAR-sensor IBF-100 is specially designed to measure volumetric flow of flue gas.

In this model the two pressure chambers within the sensor are enlarged. The reasons are as follows:

- 1) The frequency of cleaning requirements is reduced.
- 2) Cleaning by mechanical means or with air pressure is made easy.

The design allows cleaning of the pressure chambers via the sensor's pipe mounting assembly as well as from its flanged end support. For cleaning purposes the two parallel pressure chambers have a round shape which runs over the entire length of the sensor.

The standard sensor material is 316 SS; the following materials are options: 1.4539, Hastelloy C4, Incoloy und PVDF.

For automatic cleaning the LSP air-purge unit is available.

The flue gas sensor IBF-100 is approved for (German) governmentally ordered volumetric flow measurements of water saturated emissions ( TA Luft 1986, 13. BimSchV and 17. BimSchV).

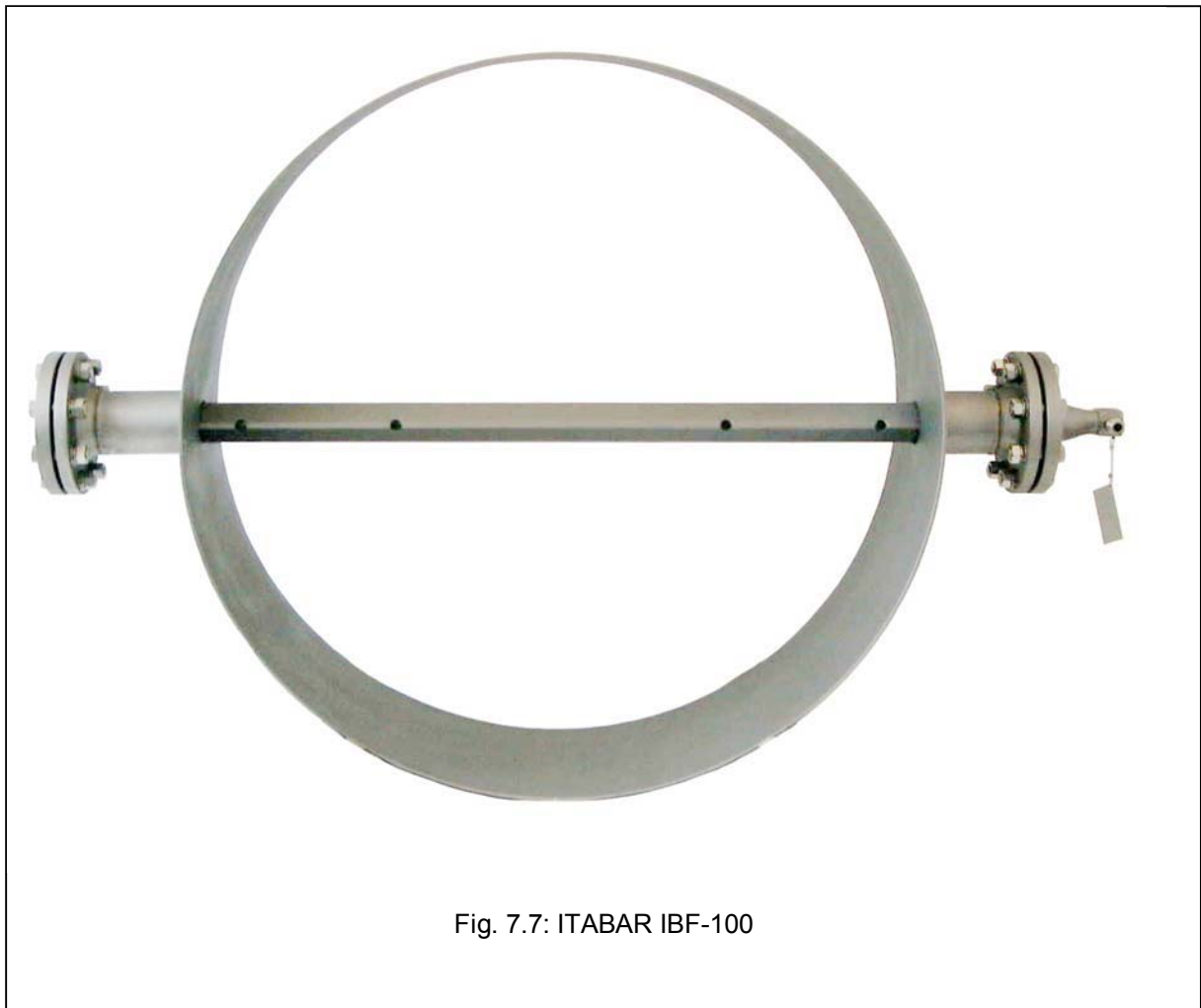
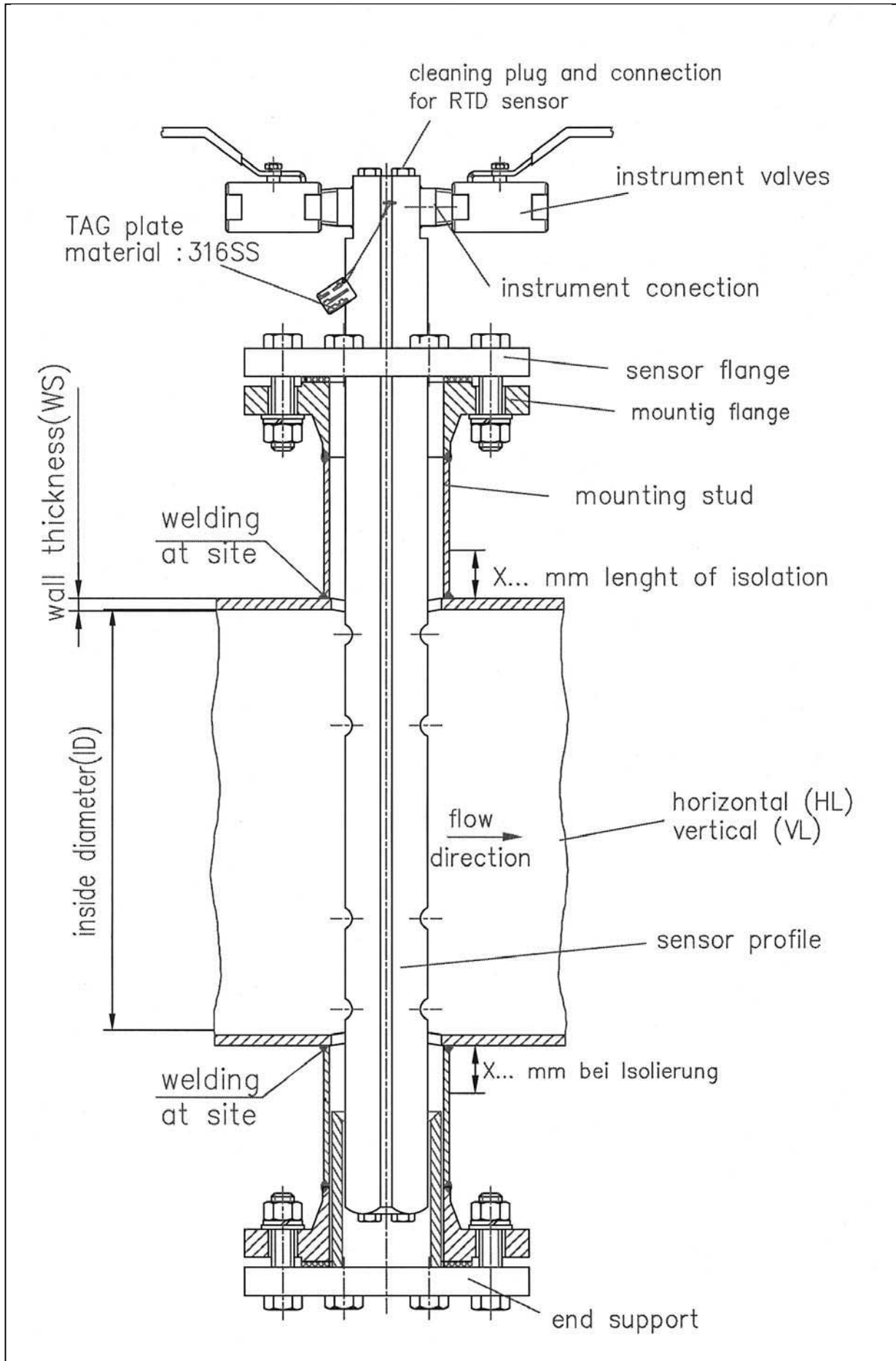


Fig. 7.7: ITABAR IBF-100

Drawings for ITABAR IBF-100





## 2. Order specification ITABAR-Flow-Sensor

### Instrument connection and shut-off device

type IBR- 20, 21, 25, 26, 35, 36

type IBF- 20, 21, 35, 36, 65, 66, 100

#### instrument connection

A04	sensorhead with 1/4" NPT outside thread
A03	sensorhead with 1/2" NPT outside thread
A06	flange plate to direct mount a 3-valve manifold
A07	flange plate to direct mount a 5-valve manifold

#### shut-off device for effect pressure pipe.

A00	without shut-off-device
A55	ball valve PN40, case C.S. / female thread 1/2" NPT , packing: Teflon
A56	ball valve PN40, case 1.4401. / female thread 1/2" NPT , packing: Teflon
A57	ball valve PN40, case C.S. / female thread 1/4" NPT , packing: Teflon
A58	ball valve PN40, case 1.4401. / female thread 1/4" NPT , packing: Teflon
A59	shut-off valve 1/4" NPT, PN400, case C.S. / female thread 1/4" NPT packing: graphite
A60	shut-off valve 1/4" NPT, PN400, case 1.4401 / female thread 1/4" NPT packing: graphite
A61	shut-off valve 1/2" NPT, PN400, case C.S. / female thread 1/2" NPT packing: graphite
A62	shut-off valve 1/2" NPT, PN400, case 1.4401 / female thread 1/2" NPT packing: graphite
A63	shut-off valve 1/2" NPT, PN10, PTFE
A64	shut-off valve G 1/2", PVDF
A66	direct mount, with 3-valve manifold, PN400, case 1.4401 / packing: PTFE (only with A06)
A67	direct mount, with 3-valve manifold, PN10, case PTFE / packing: PTFE (only with A06)
A71	direct mount, with 5-valve manifold, PN400, case 1.4401 / packing: PTFE (only with A07)