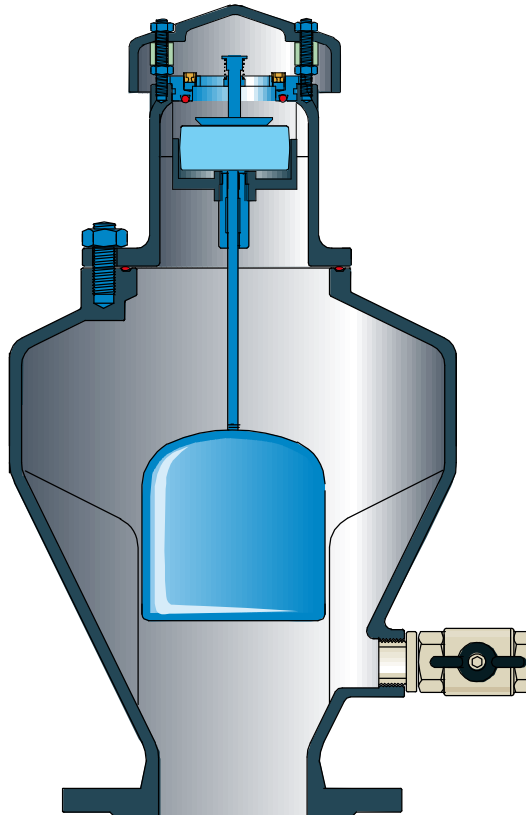




# Anti hammer automatic air valve for sewage Mod. SCA

The SCA guarantees the proper operation of pressurized sewage systems allowing the entrance of large air quantity during pipe bursting or draining phases and controlled air outflow speed.



## Construction and advantages

- Large lower body designed with strongly sloped high walls to avoid deposit of grease and/or other material, and containing four fusion obtained nerves to guide the stainless steel float.
- Upper body containing the AS device protection cup against projections during rapid filling phases.
- Mobile block including a large AISI 304 stainless steel float, placed on the lower body and connected through a stainless steel rod to the obturator.
- Anti Shock automatism composed of a metallic disk with 2 or more small orifices, a guide bar and a counteracting spring in stainless steel.
- Drainage valve for chamber control and draining.
- Maintenance can be easily performed from the top without removing the air valve from the pipe.

## Operating principle

### 1) Entrance of large volumes of air

During pipeline draining or bursting phases it is necessary to bring in as much air as the quantity of out-flowing water to avoid vacuum conditions.

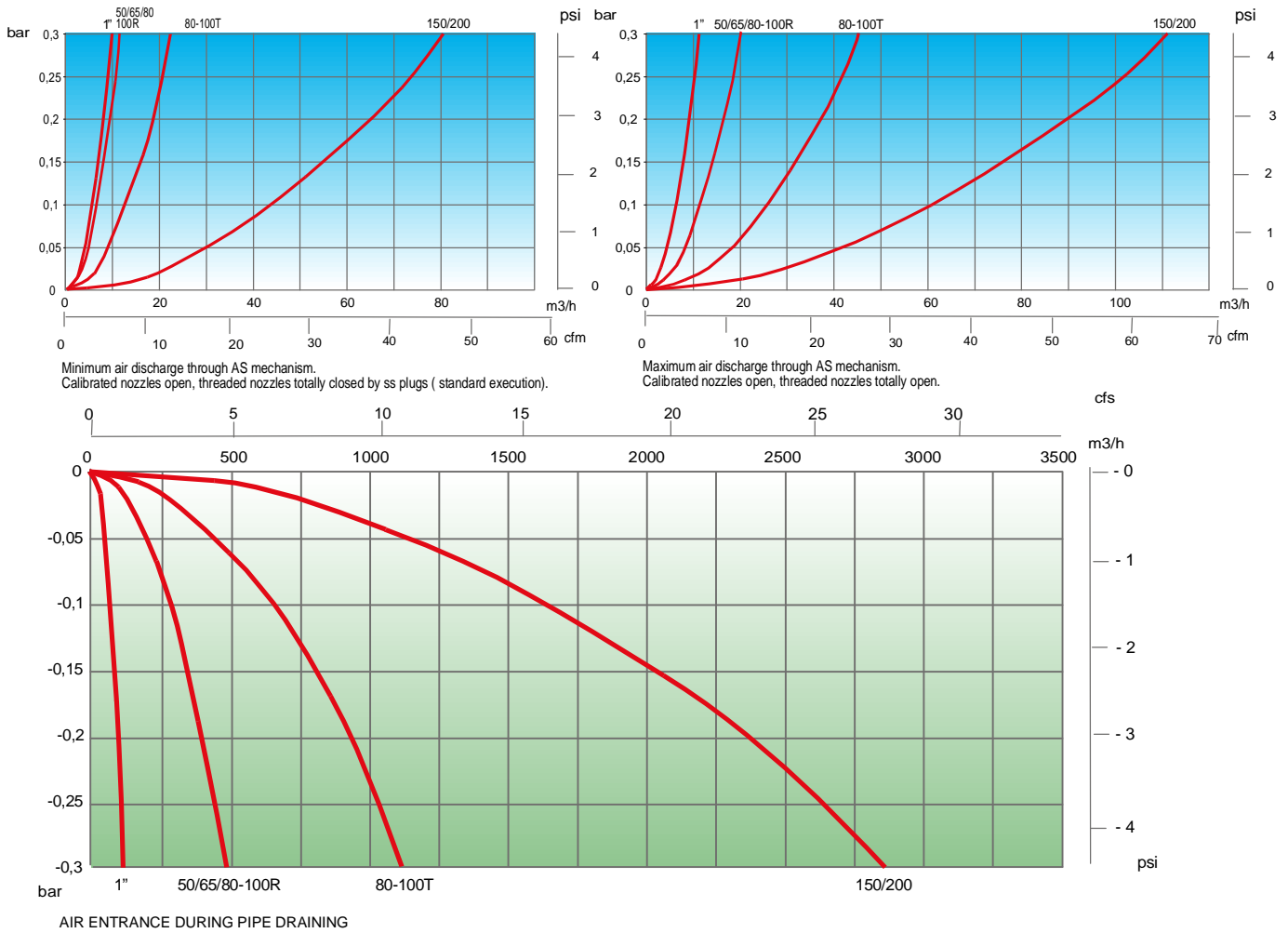
### 2) Controlled air discharge

The SCA air valve is provided with a mechanism called AS. During vacuum conditions the mobile block is laid over the diffuser, the antishock disk comes down pulling the stainless steel spring and allowing the entrance of a large volume of air through the main orifice to compensate for the vacuum effect.

For air flow performances of SCA please refer to the chart depicted on the next page.



### Air flow performance chart.



### Working conditions

Waste water 70°C/ 158 °F Max; Maximum pressure 16 bar/ 232 psi; Minimum pressure 0,3 bar/ 4.35 psi.

### Technical features

**Lower body, upper body and cover** entirely made in ductile cast iron, internal and external painted with epoxy powders applied using FBT technology.

**Obturator** in polypropylene

**AS guide bar and spring** in stainless steel

**AS disk** in brass

**Float and rod** in stainless steel AISI 304/316

**Gaskets** in NBR

**Sealing seat** in stainless steel/anticorodal

**Drainage valve** in galvanized brass or stainless steel

DN	A	B	D	E	Weight
1"	CH 75	365	215	135	10
50/65	185	565	300	202	29
80/100	220	570	300	208	31
150	285	880	488	243	78
200	340	880	488	243	82

