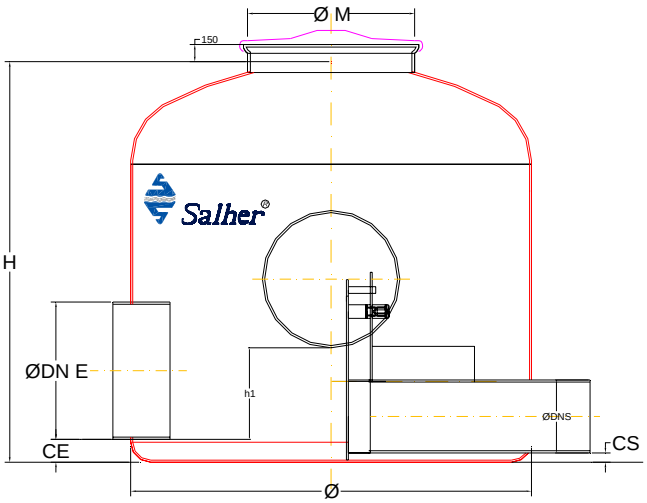
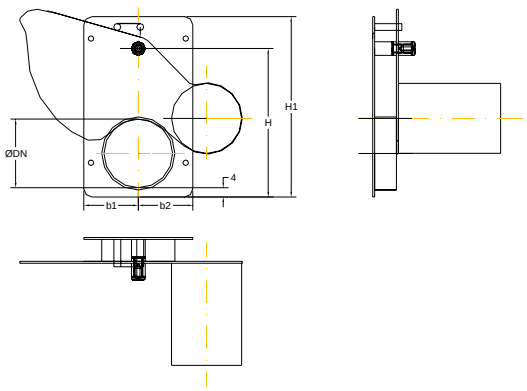
STORM SUMP AND FLOW REGULATOR
MODEL: CVC-AARC

Characteristics:

- Flow regulator to be put on the manhole outlet. This manhole can be supplied in option (see pictures below). The water is stored in the manhole, serving as a storm sump so it can later drain the flow according to the water capacities below regulated thanks to the flow regulator.
- The flow regulator is made for:
  - Outlet flow regulation to a constant level independently from the level of water in the tank.
  - Prevention against the oversizing of the rainwater drainage normal system.

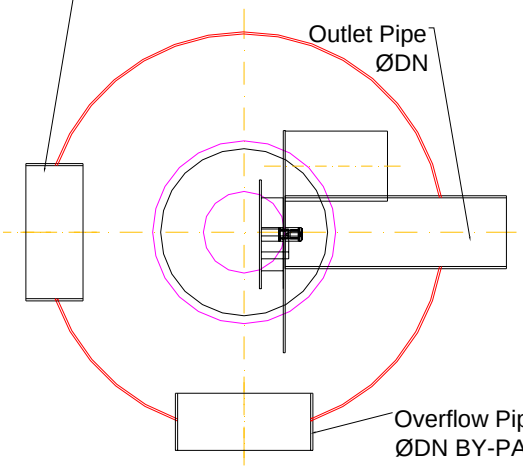


Detailed flow regulator



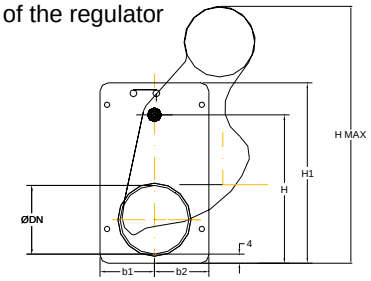
Inlet Pipe
ØDN

Outlet Pipe
ØDN



Overflow Pipe
ØDN BY-PASS

Elevation maximum height
of the regulator



The mechanism of the regulator consists of a ball-cock connected to an articulated joint which operates a flush valve flapper which will block off the outlet hole.

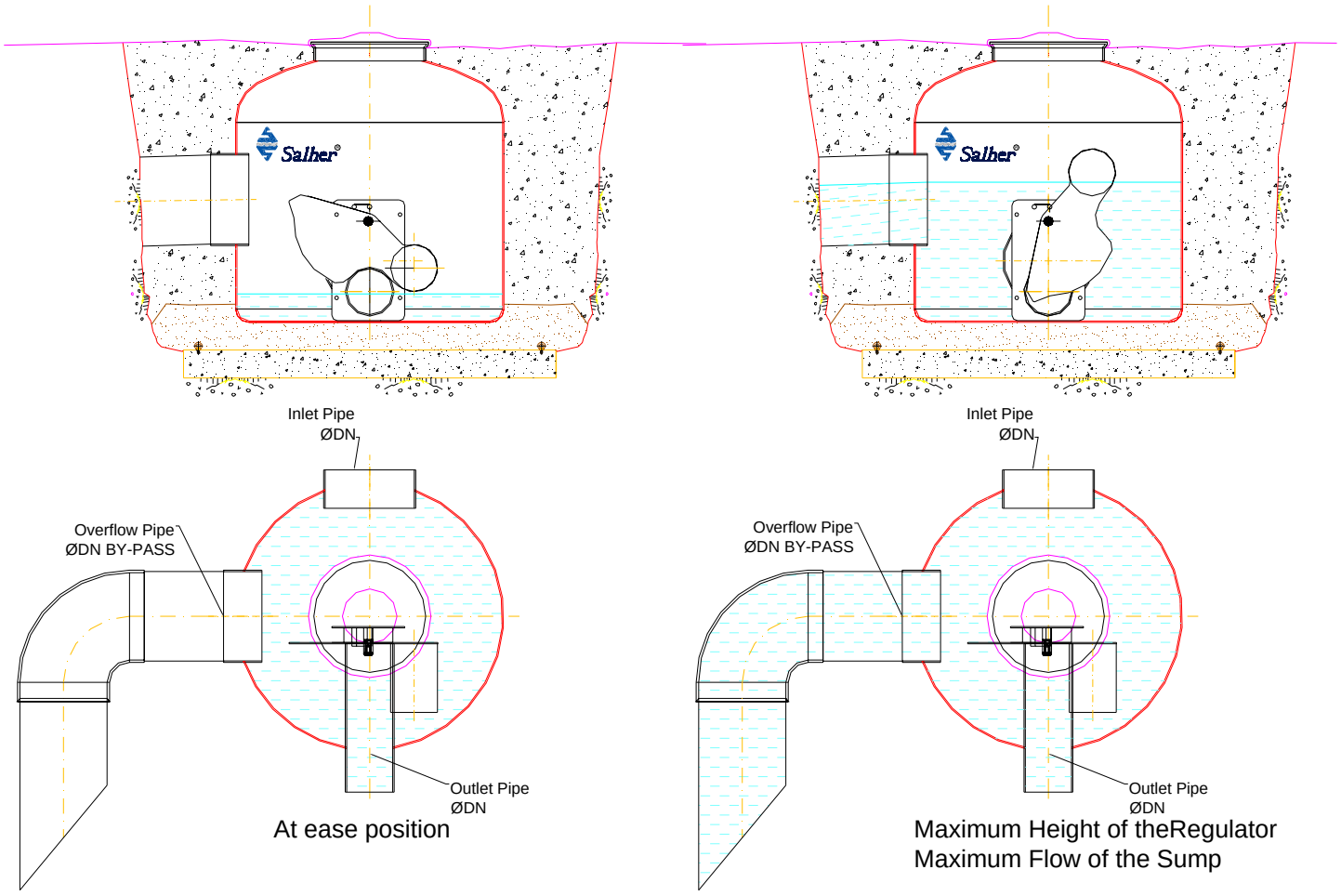
When the water level increases in the tank, the ball-cock rises up, moving rotationally and reducing gradually the outlet hole thus providing a steady flow with a maximum variation of 5%.

The regulator is made of 304-L stainless steel, with bronze ring and washers and a PEHD entry.

The flow regulator has an automatic operation without power consumption thanks to a mechanical regulator providing a continuous flow and allowing manually opening.

Flow regulators are customized to client needs. To provide the adequate equipment, we require the following information:

- Inlet flow
- Outlet flow
- Inlet and outlet pipe diameter.



At ease position

Maximum Height of theRegulator
Maximum Flow of the Sump

Model	Regulated flow [liters/sec]	MAX Flow [liters]	Manhole Ø [mm]	Manhole Height [mm]	Manhole Ø [mm]	OUTLET PIPE Ø [mm]	BY-PASS PIPE Ø [mm]	OUTLET PIPE Ø [mm]
DR100	1-5	20	1.400	1.560	620	200	160	125
DR200/150	5,1-24	96	1.400	1.755	620	300	250	160 / 200
DR200	25-34	136	1.400	1.950	620	350	300	200
DR250	35-60	240	1.700	2.185	620	400	350	250
DR300	61-100	400	1.700	2.400	750	500	500	300
DR350	105-135	540	2.000	2.605	750	600	500	350
DR400	140-200	800	2.500	2.885	1000	600	600	400
DR500	205-300	1.200	2.500	3.300	1000	700	700	500
DR600	335-550	2.200	3.000	3.820	1200	900	800	600
DR700	555-770	3.080	3.500	4.175	1200	1000	900	700
DR800	775-1.080	4.320	4.000	4.595	1400	1200	1000/1200	800