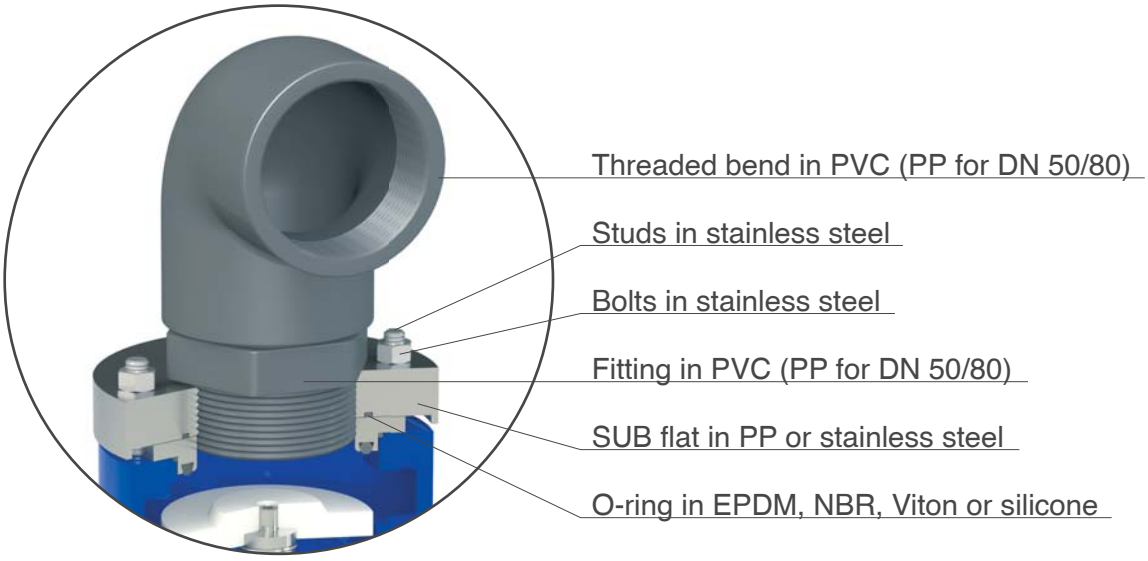
Wastewater combination air valve - Mod. SCF
Version for submerged applications - SUB series

Version for submerged applications, **SUB series**, with threaded elbow for air conveyance, standard for DN 50/80, is available on request for other DN. The design sprang from the necessity of having an air valve performing also in case of flood, without the risk of contaminated water entering the pipeline. Another benefit of SUB is to avoid the spray effect, reducing noise and conveying spurts coming from possible rapid closure of the air valve.



Technical data

Working conditions

Pressure rating PN 16:
0.09 - 16 bar
Temperature max. 60°C.

Coating FBE - RAL 5005.

Evacuation bends

Evacuation bend sizes in relation to air valve DN.

	Bend
DN 50/80	1" 1/2
DN 100	2" 1/2
DN 150/200	4"

Connections

Flanges:
- AS 4087 PN 16
- ANSI on request.

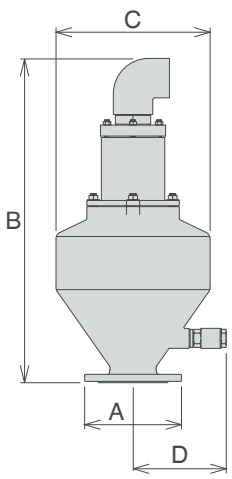
Standard

Designed in compliance with:
- EN-1074/4.

Weights and dimensions

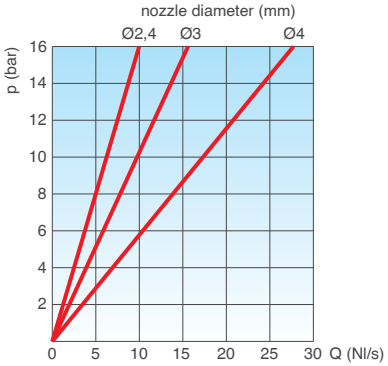
DN mm	A mm	B* mm	C mm	D mm	Wt Kg
50/80	185	665	300	190	28
100	220	770	350	202	38
150	285	1040	488	243	74
200	340	1040	488	243	78

*: maximum dimension (of the RFP model).
All values are approximate, consult CSA service for more details.



Air flow performance chart in working conditions

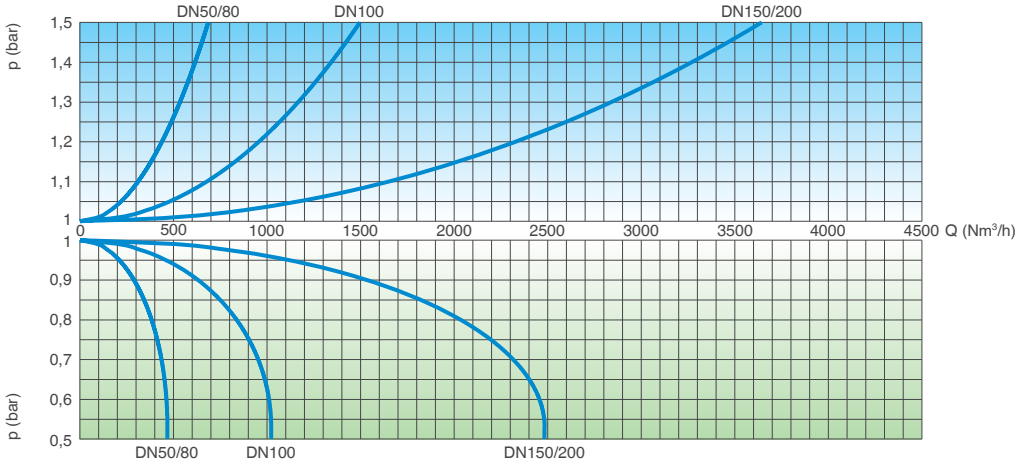
AIR RELEASE DURING WORKING CONDITIONS



Technical data

SCF SUB - Air flow performance charts

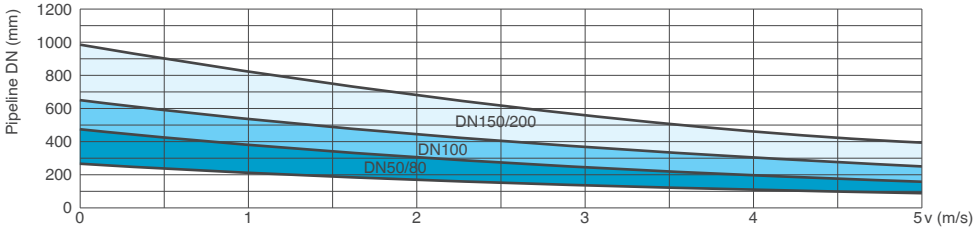
AIR DISCHARGE DURING PIPE FILLING



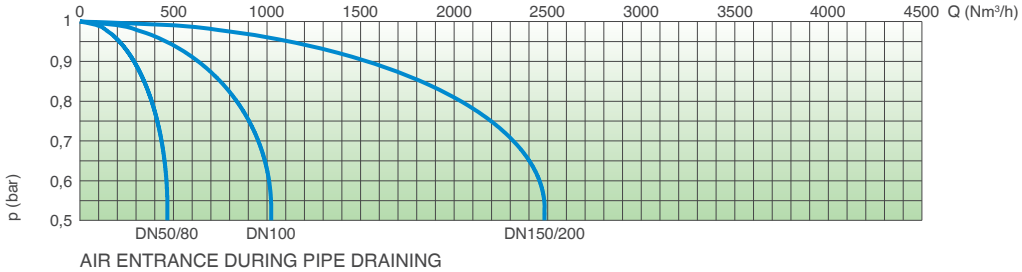
AIR ENTRANCE DURING PIPE DRAINING

SCF AS SUB - Air valve selection chart

Air valve preliminary sizing as a function of pipeline internal diameter and fluid flow velocity expressed in m/s.



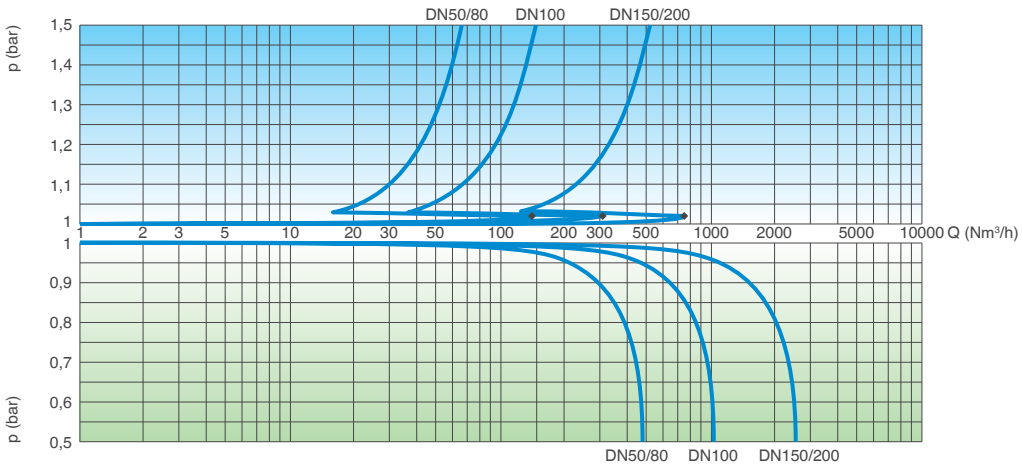
SCF AS SUB - Air flow performance charts



AIR ENTRANCE DURING PIPE DRAINING

SCF RFP SUB - Air flow performance charts

AIR DISCHARGE DURING PIPE FILLING



AIR ENTRANCE DURING PIPE DRAINING

The air flow charts were created in Kg/s from laboratory tests and numerical analysis, then converted in Nm³/h using a safety factor.