

ANTI-VORTEX PLATE

Introduction

An Anti vortex plate is a component mounted inside the suction line of surge tanks to govern the turbulence in a flowing fluid.

Anti Vortex Plates help to decrease the speed of a fast moving fluid and smooth it into a laminar drift in place of a turbulent flow. These plates also help prevent cavitation i.e small liquid-free zones such as bubbles inside the fluid.

Cavitation can create dents and imbalance in the moving parts.

Assembly Specification

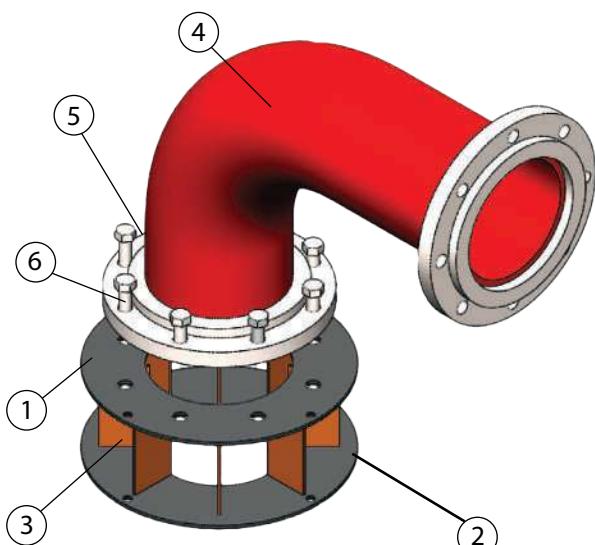
According to NFPA 22

14.2.13* Anti-Vortex Plate Assembly.

14.2.13.1 The discharge outlet for every suction tank shall be equipped with an anti-vortex plate assembly.

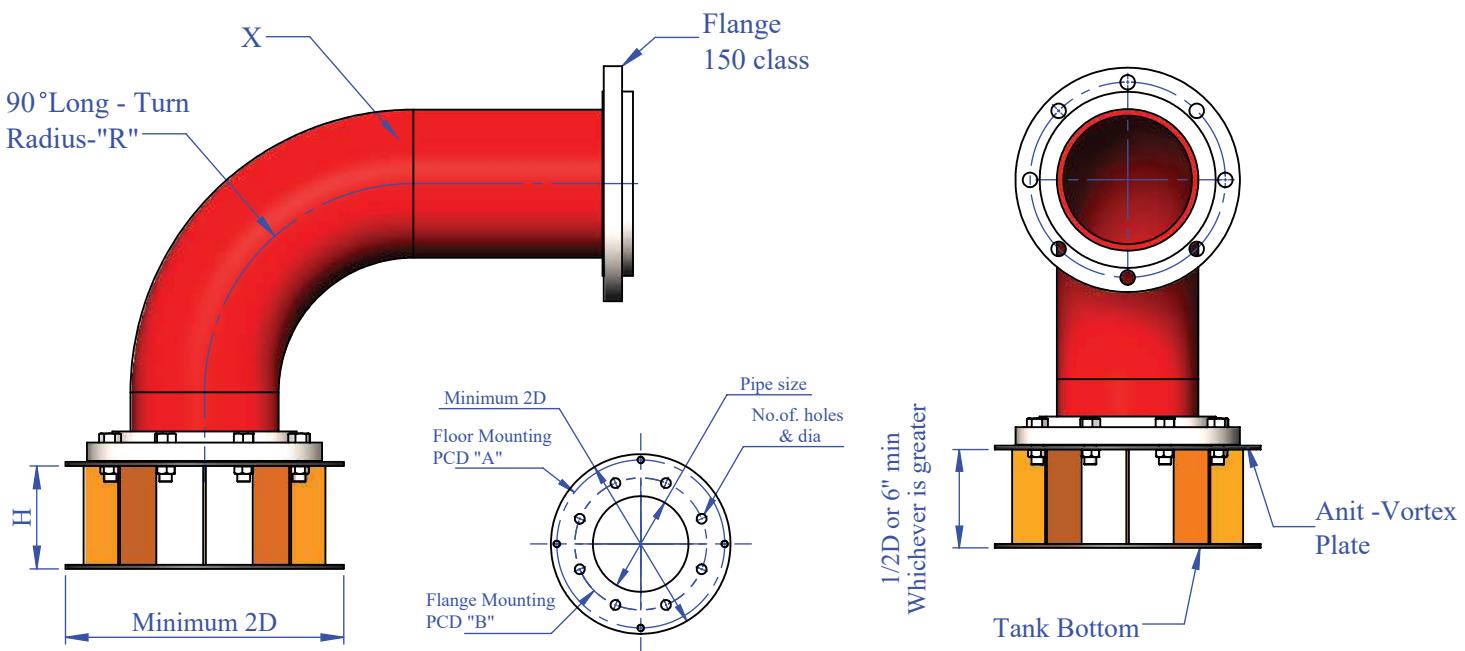
14.2.13.2* The assembly shall consist of a horizontal steel plate that is at least twice the diameter of the outlet on a long radius elbow fitting, where required, mounted at the outlet a distance above the bottom of the tank equal to one-half the diameter of the discharge pipe.

14.2.13.3 The minimum distance above the bottom of the tank shall be 6 in. (152 mm).



Item No.	Description	Part No.	QTY
1	Anti Vortex Plate 6MM-1	AVP-001	1
2	Anti Vortex Plate 6MM-2	AVP-002	1
3	Anti Vortex Plate Support 4MM	AVP-003	8
4	Elbow	AVP-004	1
5	Flange	AVP-005	1
6	HHBOLT & NUT 0.7500-16x2.25x1.375-N	AVP-006	8

ANTI-VORTEX PLATE



ITEM NO-1 & 2
QTY-2 NOS

Note : X size is based on site condition

Pump Rating in GPM	Suction Pipe Size inch	Flange Dia 2D inch	Final Height "H" inch	90° Long - Turn Radius - "R" inch	Floor Mounting PCD "A"	Flange Mounting PCD "B"	No. of Holes & Dia
500	5	10	6	7.5	225	215.9	8x Ø 22.4
750	6	12	6	9.0	280	241.3	8x Ø 22.4
1000	8	16	6	12	380	298.5	8x Ø 22.4
1250	8	16	6	12	380	298.5	8x Ø 22.4
1500	8	16	6	12	380	298.5	8x Ø 22.4
2000	10	20	6	15	480	362.0	12x Ø 25.4
2500	10	20	6	15	480	362.0	12x Ø 25.4
3000	12	24	6	18	580	431.8	12x Ø 25.4

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED