VORTEX BREAKER

AZAR ENERGY
TABRIZ

CHEM GROUP

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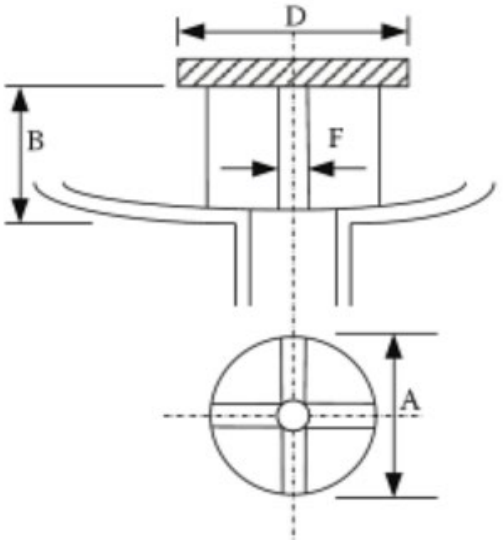
The Vortex Breaker

The vortex breaker is used in almost all liquid-draw nozzles. There are several types of vortex breakers used; the most common one is shown as Figure below. In this design, vertical baffles are used to break the vortex. The number of baffles used depends on the nozzle diameter. Table below is often used as a preliminary guideline to design a vortex breaker. The position of draw nozzle is also important; a vessel-flushed nozzle may not be always recommended, particularly if incoming fluid contains inert or gummy material. The internal nozzle projection (50 to 100 mm) is often used to avoid draining of solid along with the liquid stream.



Vortex Breaker Dimensions

Nominal Size (mm)	Number of Baffles	A (mm)	B (mm)	D (mm)	F (mm)
40	4	75	50	85	-
50	4	85	50	100	-
80	4	115	50	130	-
100	4	140	50	155	-
150	4	215	75	230	-
200	4	290	105	305	-
250	8	365	130	380	50
300	8	445	150	460	50
350	8	515	180	530	50
400	8	590	200	605	50
450	8	665	230	680	50
500	12	735	255	750	75
600	12	890	305	890	75