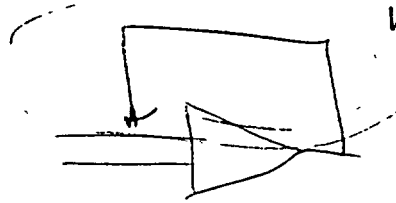


Valtek Severe Service Equipment MegaStream Plates



Introduction

Similar in many respects to a MegaStream trim attenuator, the MegaStream resistance plate (Figure 34) is installed downstream from a valve as an additional solution to control valve noise. MegaStream plates can be installed between raised face flanges or welded in-line. Typical MegaStream plate applications include gas pressure reducing stations, gas vents and flare systems. MegaStream plates are designed for each individual application, providing sound pressure level (SPL) reductions of up to 15 dBA.

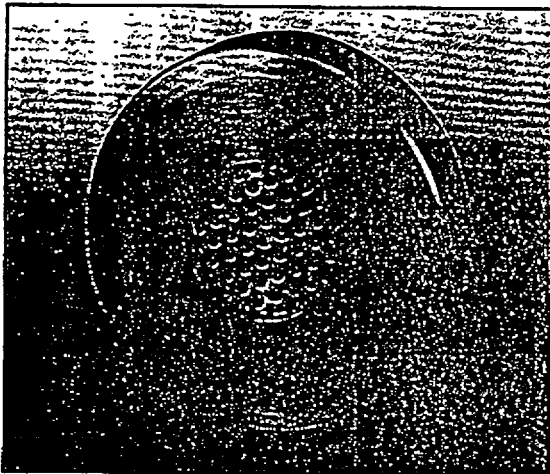


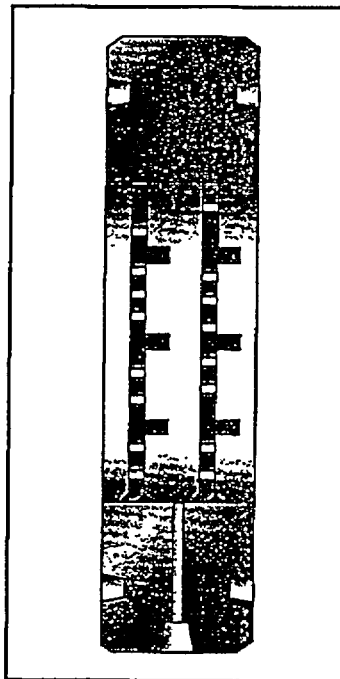
Figure 34:
Two-stage MegaStream Plate

**Table 14: MegaStream Plate C_v
ANSI Class 150 - 600**

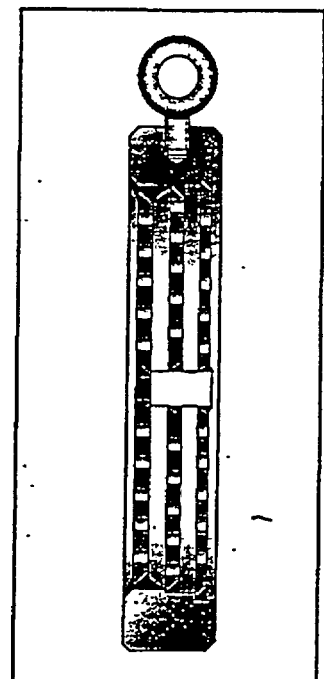
Size	1-stage	2-stage	3-stage
1½	13	8	6
2	23	15	11
3	52	34	26
4	92	60	46
6	208	136	104
8	371	243	185
10	580	380	290
12	835	547	417
14	1136	774	568
16	1484	972	742
18	1879	1231	939
20	2320	1520	1160
24	3340	2188	1670

Design

Each plate incorporates a series of stages (Figures 35 and 36). To control downstream line turbulence, each stage absorbs a portion of the pressure drop through its many multiple orifices. Depending on the type of gas and the pressure drop ratio, these plates may require between one and four stages. Standard MegaStream plates are constructed from carbon steel for both the housing and multi-hole stages. One additional option constructed from 304 stainless steel for both the housing and stages is available. Large plates are available with lifting lugs.



**Figure 35: Two-stage
MegaStream Plate
(with drain)**



**Figure 36:
Three-stage
MegaStream Plate
(with lifting ring)**

NOTE: All values shown at maximum C_v per given size; reduced C_v values are available upon request. C_v data determined with standard 0.19-inch diameter hole size; varying hole sizes will change the above values.

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Valtek Severe Service Equipment
MegaStream Plates

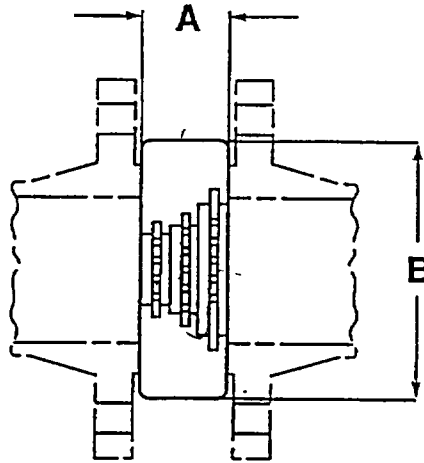


Table 15: MegaStream Plate Dimensions (inches / mm)

Valve Size (inch)	A						B					
	1 Stage		2 Stage		3 Stage		150		300		600	
1 1/2	0.8	19	0.9	22	1.5	38	3.4	86	3.8	95	3.8	95
2	0.8	19	1.3	32	1.5	38	4.1	105	4.4	111	4.4	111
3	0.9	22	1.4	35	1.9	48	5.4	137	5.9	149	5.9	149
4	0.9	22	1.4	35	1.9	48	6.9	175	7.1	181	7.6	194
6	1.3	32	1.6	41	2.4	60	8.8	222	9.9	251	10.5	267
8	1.4	35	1.9	48	2.4	60	11.0	279	12.1	308	12.6	321
10	1.9	48	2.4	60	2.9	73	13.4	340	14.3	362	15.8	400
12	2.4	60	2.8	70	3.4	86	16.1	410	16.6	422	18.0	457
14	2.4	60	2.8	70	3.4	86	17.8	451	19.1	486	19.4	492
16	2.4	60	2.9	73	3.9	99	20.3	514	21.3	540	22.3	565
18	2.4	60	2.9	73	3.9	99	21.6	549	23.5	597	24.1	613
20	2.8	70	3.6	92	4.8	121	23.9	607	25.8	654	26.9	683
24	2.8	70	3.6	92	4.8	121	28.3	718	30.5	775	31.1	791