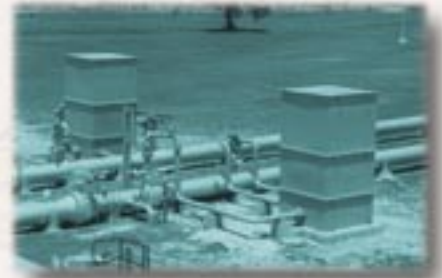


MED MODEL BDS



**Mueller
Environmental
Designs, Inc.**



**Air Filtration
Evaporative Cooling
Noise Control
Mist Elimination
Turnkey Projects**



APPLICATION

The Mueller Environmental Designs Blow Down Silencer is designed to reduce the noise associated with venting high pressure steam or gas to atmospheric pressure.

Specific applications include:

- ◆ Steam or Gas Process Vents
- ◆ Natural Gas Blowdowns
- ◆ Safety Relief Valves
- ◆ Boiler Start-up and Purge Systems
- ◆ Steam Ejectors

DESIGN

The Mueller Blow Down Silencer incorporates both reactive and absorptive noise control, providing broad band noise reduction, in a compact cylindrical design. It is effective in high and low pressure applications. The inlet diffuser is designed to withstand the reaction forces associated with high pressure applications.

SELECTION

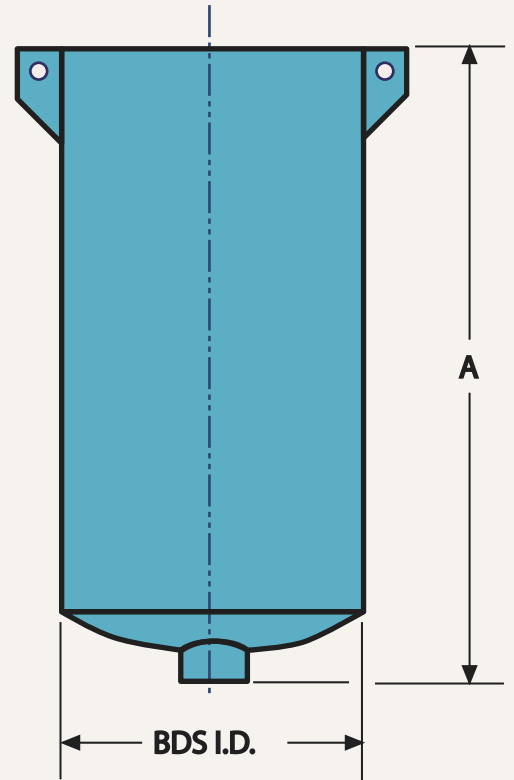
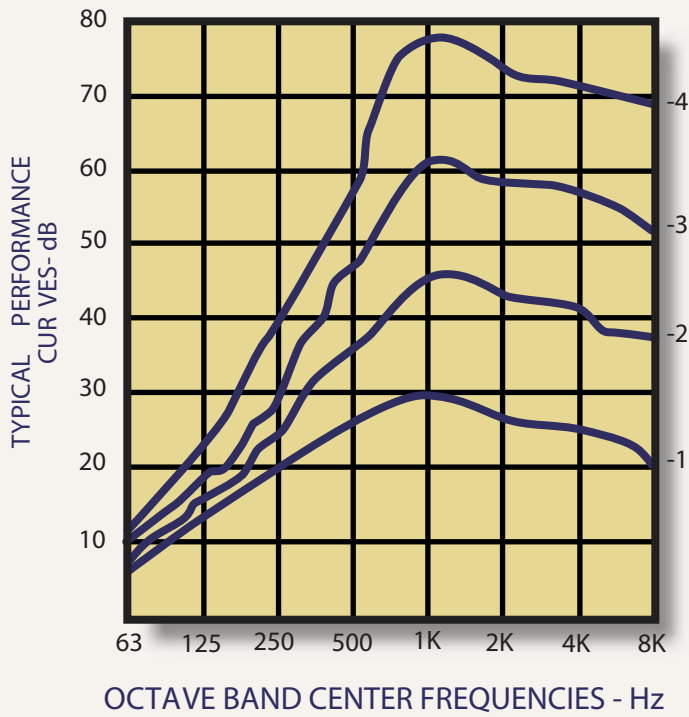
The sizing procedure for this noise control application requires the following information:

- ◆ Application-vent or blow down
- ◆ Service-intermittent or continuous
- ◆ Type of Gas or Steam
- ◆ Flow Rate, Blow down time and volume
- ◆ Upstream pressure and temperature
- ◆ Valve type and size
- ◆ Silenced Noise Criteria

WARRANTY

Mueller Environmental Designs guarantees to meet noise control criteria, warranties against poor workmanship, material defects, failure due to improper equipment selection.





BDS SIZE (Shell Dia)	CAPACITY (At 15000 FMP Exit Velocity)	- 1		- 2		- 3		- 4	
		DIM.A	WEIGHT	DIM.A	WEIGHT	DIM.A	WEIGHT	DIM.A	WEIGHT
12	3,400	41	290	55	350	96	420	120	490
18	10,799	58	385	81	500	111	620	135	740
24	23,561	61	495	86	735	115	960	139	1,185
30	40,498	70	695	93	1,030	123	1,330	147	1,635
36	57,023	76	985	100	1,505	129	2,005	153	2,535
42	78,540	87	1,295	122	2,090	152	2,795	187	3,500
48	99,729	95	1,640	130	2,605	160	3,425	195	4,245
54	135,536	104	2,030	145	3,360	186	4,500	222	5,640
60	167,551	113	2,110	154	4,270	195	5,085	231	5,900
66	217,620	128	2,765	181	4,520	234	5,910	287	7,300
72	254,273	154	3,800	219	5,850	284	7,615	349	9,380
78	314,159	173	4,560	250	7,210	332	9,580	409	11,950
84	363,001	179	5,130	256	7,870	338	10,430	415	12,990
96	450,662	191	5,680	268	9,080	350	11,845	427	14,610
102	530,143	195	6,505	272	10,265	354	13,230	431	16,195
108	575,243	232	8,855	338	13,920	444	18,235	550	22,550
120	725,135	242	10,720	348	16,480	454	21,155	560	25,830
132	892,212	255	13,900	361	23,150	467	29,385	573	35,620
144	1,048,244	263	15,690	369	24,180	475	32,675	518	41,170

*BASED ON 14.7 PSIA AND DISCHARGE TEMPERATURE

APPLICATION INFORMATION

Vent
 Safety Relief
 Blowdown
 Volume _____ Cu. Ft.
 Blowdown Time _____ Sec.
 Valve Opening Time _____ Sec.
 Other _____

FLOW INFORMATION

Gas/Fluid _____
 Mol. Wt./S.G. _____
 Lbs./Hr _____
 Upstream Temp _____ °F
 Upstream Press _____ PSIG
 Atmo Press _____ PSIG
 ACFM _____ @ _____ °F
 SCFM _____

SERVICE CONDITIONS

Continuous
 Intermittent
 Other _____

PRESSURE DROP LIMITATION

None
 Yes _____
 Valve Size _____
 Valve Type _____
 Line Size _____

ACOUSTIC REQUIREMENTS

	dBA	63	125	250	500	1k	2k	4k	8k	Hz
REQUIRED SILENCED SPL @ _____ FT										dB
REQUIRED DIL										dB
UNLICENSED SPL @ _____ FT (IF KNOWN)										dB

SUPPORTS

Legs
 Skirt and Base Ring
 Other _____

INLET FLANGE CONNECTION

Size _____"
 Rating _____ No.
 Facing
 RFSO
 RFWN
 Flat (plate Flange)
 BFW

WEATHER PROTECTION

None (open to atmosphere)
 Elbow
 Weather Hood
 Other _____

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