



# BURGESS-MANNING

Burgess-Manning, Inc., Subsidiary of Nitram Energy, Inc.  
227 Thorn Avenue, Orchard Park, NY 14127  
Phone: (716) 662-6540 Fax: (716) 662-6548 Website: www.burgess-manning.com

## MODEL PVTC - Vent And Blowdown Silencer

### A Revolutionary Design That Provides Greater Noise Reduction In a Smaller Silencer

#### Description:

The Burgess-Manning Model PVTC Vent and Blowdown Silencer is designed to reduce unwanted noise created by high pressure air, gas, or steam flowing through a control valve or stack, eventually discharging to atmosphere. Common applications for the PVTC include flow control valves, safety relief valves, steam, air, & gas vents, process gas blowdowns, boiler start-up & purge and switch valves. The model PVTC is significantly smaller in size compared to conventional units which helps to reduce installation costs. The Model PVTC design stems from field proven performance of technology developed during intensive laboratory research, based in turn on acoustic principles derived by Burgess-Manning's engineers.

#### Standard Features:

- Compact design
- All welded, heavy-duty carbon steel construction
- Full penetration welding of inlet nozzle and diffuser in accordance with ASME section IX procedures
- All exterior surfaces prime painted
- Vertical or Horizontal installation
- Lifting lugs
- Bottom drain

#### TYPICAL PERFORMANCE DYNAMIC INSERTION LOSS (DIL), Db

MODEL	OCTAVE BAND CENTER FREQUENCY (Hz)							
	63	125	250	500	1K	2K	4K	8K
PVTC	3	6	13	22	24	25	25	25

NOTE: The typical performance values shown were established through field studies, laboratory testing and application of acoustic principles. Actual performance will depend upon silencer size, gas density, temperature, and unsilenced noise intensity. In certain applications, DIL values of 40+ Db can be achieved. For questions regarding a specific application and service, contact the Burgess-Manning representative in your area.

#### Theory of Operation:

The Model PVTC design differs from traditional silencers in that it prevents, rather than attenuates flow generated noise. This is accomplished by using **advanced micro-diffusion technology** (patent pending) to prevent the formation of noise producing turbulent jets in the gas stream, and reduce or eliminate the need for bulky absorptive acoustic panels commonly used in noise control. The technology can be applied to utilize existing pipeline pressure or to impose additional backpressure on a piping system.

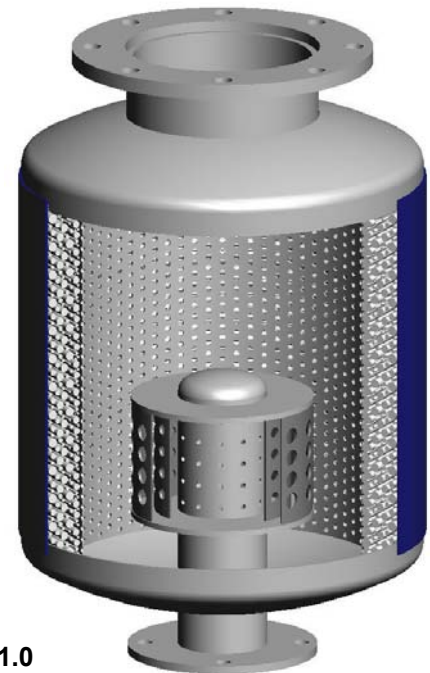


Figure 1.0  
Typical  
Burgess-Manning  
Model PVTC silencer



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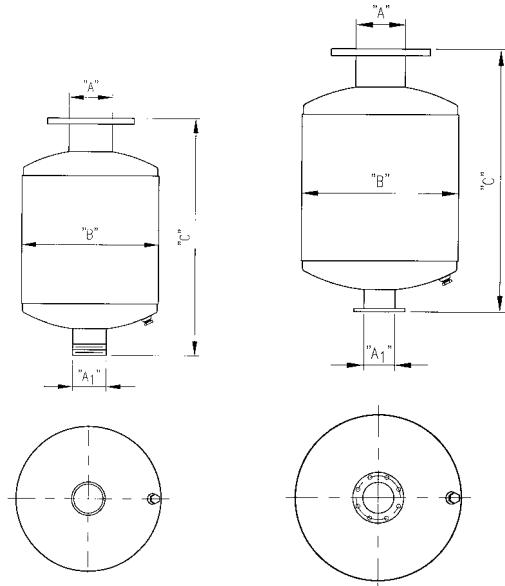
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## MODEL PVTC - Vent And Blowdown Silencer

MODEL NUMBER	DIMENSIONS				Estimated Weight (lbs.)
	A (in)	A <sup>1</sup> (in)	B (in)	C (in)	
PVTC-2.5	2.5	1	10	22	30
PVTC-3	3	1.5	10	22	35
PVTC-4	4	2	12	26	40
PVTC-5	5	2.5	12	26	45
PVTC-6	6	3	14	27	80
PVTC-8	8	4	16	32	85
PVTC-10	10	6	18	34	110
PVTC-12	12	6	20	38	115
PVTC-14	14	8	24	48	140
PVTC-16	16	8	24	48	204
PVTC-18	18	10	30	54	280
PVTC-20	20	12	30	54	500
PVTC-22	22	14	36	64	510
PVTC-24	24	16	36	68	680
PVTC-26	26	18	42	77	700
PVTC-28	28	20	42	77	1050
PVTC-30	30	22	48	81	1075



**CUSTOM FABRICATION IN OUR WHOLLY-OWNED FACILITIES**

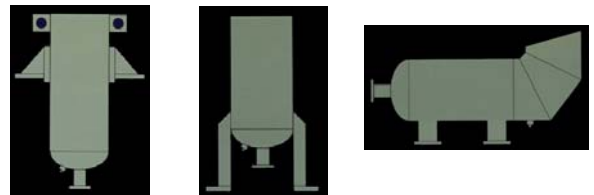


- Notes:
- Custom sizes available upon request
  - Standard inlet NPT thru 3.5"
  - Standard inlet flange drilled to match 125# standards above 3.5"
  - Standard outlet flange drilled to match 125# standards

**Optional Features:**

- Mounting brackets or supports
- Inlet Flange
- Weatherhood
- Finish Paint
- Special Materials - Stainless, Alloys

Mounting Brackets



Your local representative is:

Weather Hoods

