

SS95 Pulsation Dampener

TREBOR®

Improve Filter Performance and Reduce Vibration

The SS95 uses pneumatic operation to greatly reduce liquid line surging and pulsation associated with reciprocating chemical pumps. Compatible with TREBOR's Maxim Series, Magnum 620, and Mega 960 pumps, or with any other brand pumps by using the in-line option. The SS95 handles chemical temperatures up to 180 °C and is constructed with no metal parts or elastomer O-rings. Fluid contacts only ultrapure PTFE material, thereby protecting your process chemicals.

Performance

- ▶ Operating temperatures up to 180°C
- ▶ Operating pressure up to 80 psig (.55 MPa) below 100 °C, and up to 45 psig (.31 MPa) above 100 °C
- ▶ Reduces liquid line pulsation to ± 3 psig in most applications

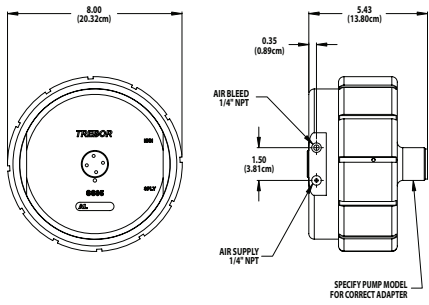
Construction

- ▶ No metal parts or elastomer O-rings for maximum chemical compatibility and corrosion resistance
- ▶ 100% PTFE fluid path
- ▶ Pump mount or inline tee option
- ▶ Cleanroom assembled, tested and packaged
- ▶ Field serviceable design
- ▶ 2-year no maintenance warranty

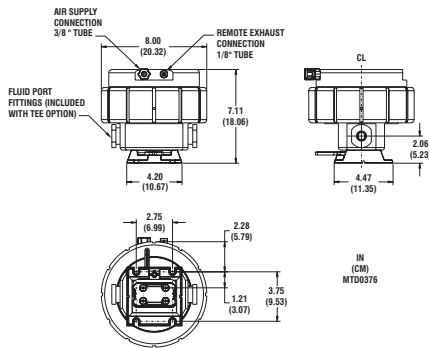


SS95 shown mounted on Maxim 50 pump

Dimensions

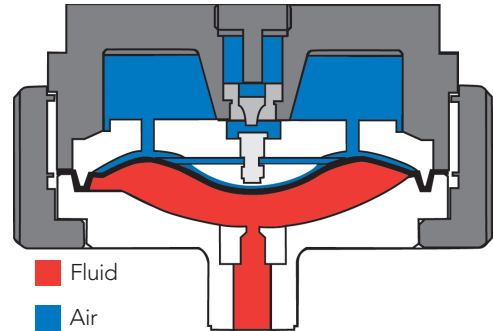


In-line Dimensions



Operating Principle

Air is supplied to the SS95 Pulsation Dampener equal to or greater than the pump air supply pressure. This pressurizes the air chamber (shown in blue) that is isolated from the chemical chamber (shown in red) by the PTFE diaphragm. With each pump stroke the chemical pulsations are dampened by the pressurized air chamber, bleeding off small amounts of air with each pulsation. The air chamber periodically recharges itself when enough air has bled off to allow contact with the pilot valve. With only a few periodic moving parts the SS95 will typically provide more than 200 million pump cycles of service between maintenance intervals.



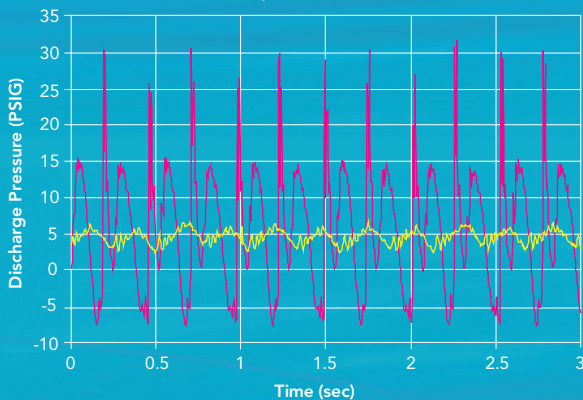
	English	Metric
Max pressure below 100°C	80 psig	.55 MPa
Max pressure 100-180°C	45 psig	.31 MPa
Maximum chemical operating temperature	356°F	180 °C
Weight	7.1 lb	3.2 kg
Effective flow rate	< 25 GPM	< 95 LPM
Typical dampening range	± 3 psig	± .02 MPa

Options and Ordering

Use the code numbers for ordering the following options for your SS95 Pulsation Dampener.

MODEL	SS95	SS95 Pulsation Dampener
FLUID CONNECTIONS	P1	Connection to Magnum 610, 610NM, Maxim Series
	P2	Connection to Mega 960
	L1	In-line - 1" Flare
	L2	In-line - 3/4" Flare
	L3	In-line - 3/4" Tube Stubout
LF	In-line - 3/4" Flare connection	
OPTIONS	A0	No Option added

Pulsation Dampener Effectiveness



■ M50E with Model SS95 ■ M50E without pulsation dampener

Tested at 80 psig air supply @ 13.7 GPM (51.8 LPM) H₂O

SS95 P1 A0 Example of an order number based on configuration options.

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