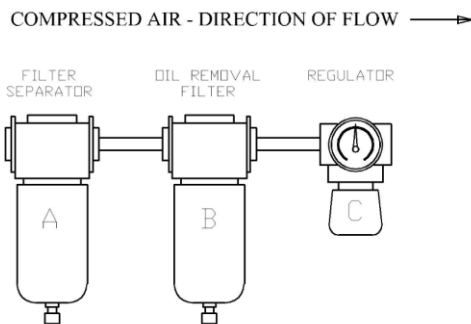


# VORTEX TUBES STAINLESS STEEL INSTALLATION & MAINTENANCE

## INSTALLATION GUIDELINES

1. Ensure that compressed air lines are properly sized to keep pressure drop to a minimum. Use at least 1/4" pipe or 3/8" hose for supply line runs up to 10 feet (3 Mtrs.), 3/8" pipe or 1/2" hose for runs up to 50 feet (15 Mtrs.) and 1/2" pipe lines for longer runs. Do not use restrictive fittings such as quick couplings which will reduce the effectiveness of the cooling systems.
2. All systems come complete with a properly sized 25 micron filter with a manual drain. If oil is a problem in your air lines, use a properly sized oil removal filter with at least a 0.03 micron rating. Install all filters within 10 to 15 feet (3 – 4.6 Mtrs) of the cooling unit.

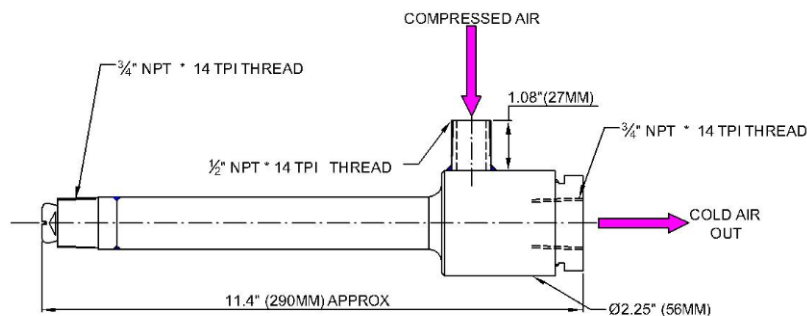
### OPTIONAL FILTER SYSTEMS



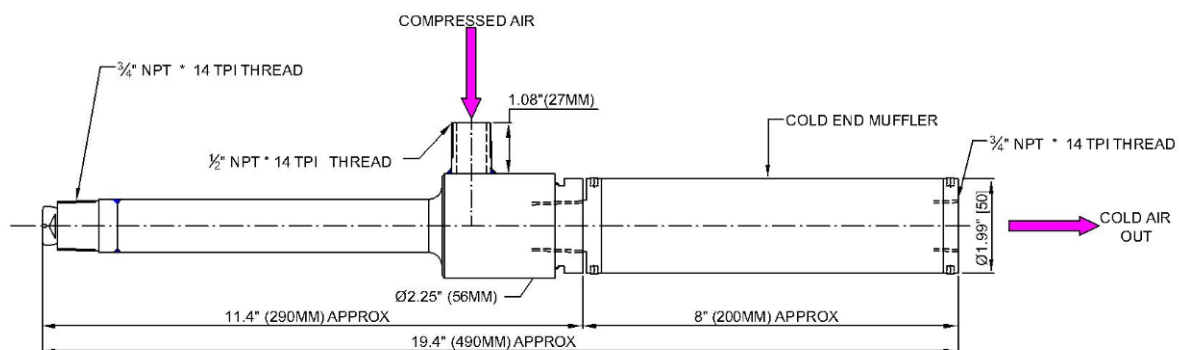
## MAINTAINING OPTIMUM PERFORMANCE

Maintain a MINIMUM backpressure on the cold air exhaust end. Low back pressure, up to 2 PSIG (0.14 bar) will not significantly affect performance. However, 5 PSIG (0.35 bar) will affect performance by approximately 5°F.

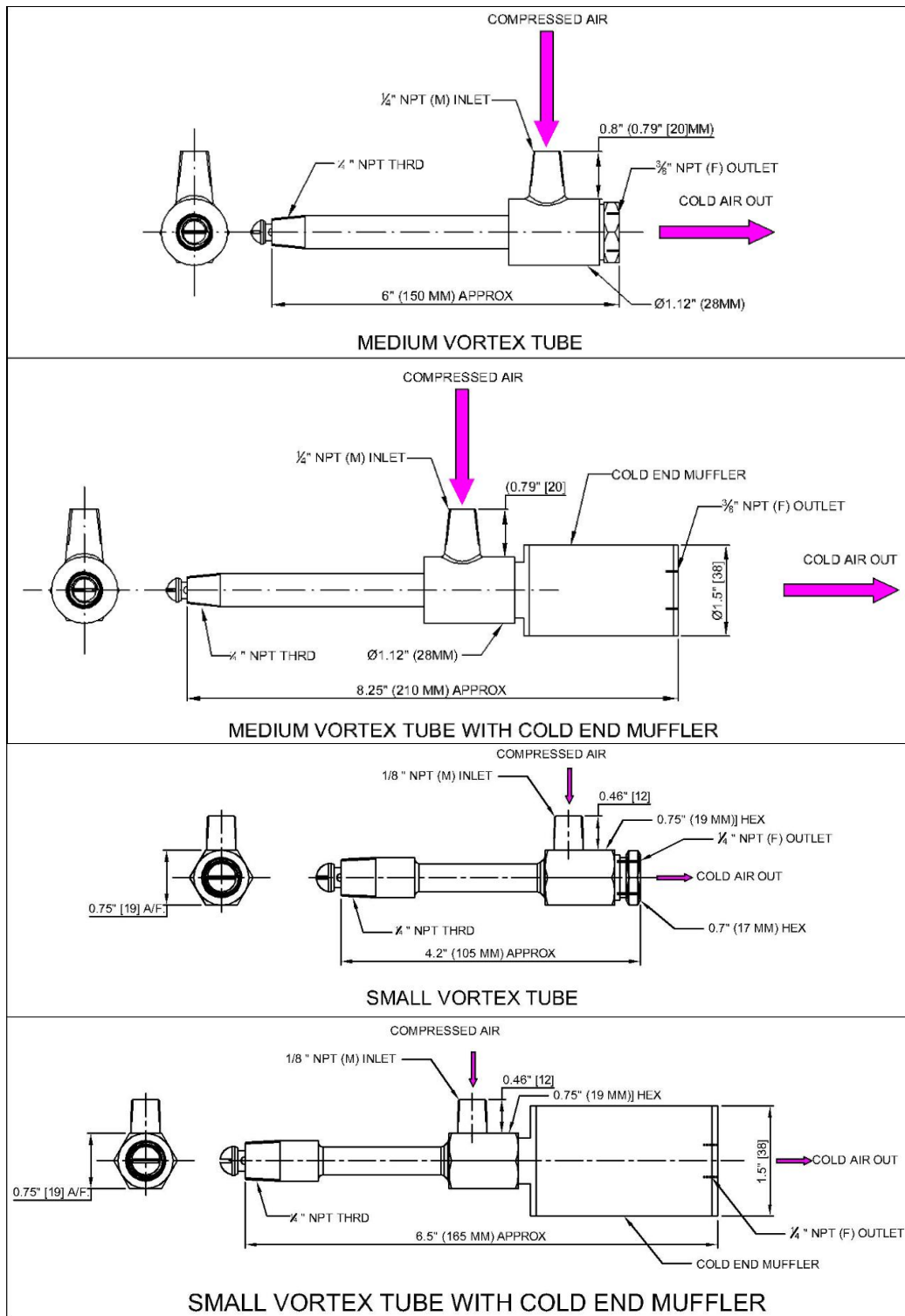
Unducted vortex tubes can be quite noisy. If cold air is ducted, muffling is not normally required. However, mufflers are available for both the cold and hot ends if required.



LARGE VORTEX TUBE



LARGE VORTEX TUBE WITH COLD END MUFFLER



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