**FUME HOOD AIR FLOW INDICATOR DETAIL**

**KEYED NOTES:**

1. Mount bracket to side of fume hood with minimum of 3 stainless steel (SS) sheet metal screws. Ensure screws do not interfere with piping or wire.

2. Static pressure fitting,swaged, located fitting on duct below damper or first elbow.

3. Connect tubing from duct to low pressure connection of gage with swaged SS type tube fitting. Use high pressure connection open to room. Plug remainder of gage connections.

4. 1/4" copper tubing in brass fittings or SS tubing with fittings. Minimize use of fittings. Bend tubing where possible. Use stainless steel tubing and fittings for very corrosive exhaust stream.

5. Gage must be readable while standing at face of fume hood. Gage may be mounted above eye level, but neither gage nor tubing shall interfere with movement of sash.

**NOTES FOR DESIGNER:**

1. When editing detail to suit project, add job specific requirements and delete only those portions that do not apply. To seek a variance from applicable requirements, contact the ESM Mechanical POC.

2. NFPA 45 requires air flow indicators to be installed on new hoods or on existing hoods when modified.

3. Contact lump industrial hygiene group for guidance. If one duct diameter distance from top of fume hood to duct tie-in cannot be obtained.

4. Valves allow gage to be tested.

5. Calculate or measure (using a micromanometer) the hood static pressure and specify a gage range of no greater than twice the hood static pressure.

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**MAGNESIUM/Y PRESSURE GAGE**

(See Note 6) WC, DWYER, SERIES 2000 W/ADJUSTABLE SIGNAL FLAG

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**BRASS PLUG VALVE**

1/4" TUBING X SS PIPE TUBE ADAPTER NW85-8RPK 3/8"-1/4"-1/2"-1/4"

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**HOOD FACE**

WRAP SIDE & BOTTOM WITH SPLIT RUBBER TUBING TO PREVENT HEAD INJURIES

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**DESIGN DEVELOPED FOR ML-3/ML-4 PROJECTS. FOR ML-1/ML-2, ADDITIONAL REQUIREMENTS AND QA REVIEWS ARE REQUIRED. (REMOVE THIS NOTE WHEN INSERTED INTO A DRAWING PACKAGE).**

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**DISCIPLINE POC:** GURINDER GREWAL

**STANDARDS MANAGER:** TOBIN ORUCH

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**DRAWING NO:** ST-D3040-1

**DATE:** 05-29-99

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**ENGINEERING STANDARDS**

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**ST-D3040-1**