

**** COMPLETE THIS FORM TO INITIATE SUPPLIER SCOUTING ****

MEPNN Supplier Scouting Opportunity Synopsis

(To view in larger text, press Ctrl + Simultaneously)

The submitting entity agrees to notify NIST MEP of the status of actions taken as a result of this scouting instance within 30 days after receiving a results report.

I agree

Number of days to be posted if other than 30

60

Item to be Scouted

Air Flow Control Manifold

Please describe the item application/the end use of the item

Air distribution, flow control manifold to operate < 50 psi input pressure.

Supplier Customer/Product NAICS Code, if known

TECHNICAL INFORMATION

1. Supplier Information

1a. Type of supplier being sought

Manufacturer

If other, please specify type of supplier

1b. Reason for scouting submission

2nd Supplier

If other, please specify reason

2. Summary of Technical Specifications and Performance Requirements

2a. Describe the manufacturing process

Basic machining.

2b. Provide dimensions, size, tolerances, and performance specifications for the item

Air distribution manifold with minimum 1 (one) input and 3 (three) to 8 (eight) outputs. Inputs to accepts 1/4" or 6mm flexible tubing. Outputs to accept 5/32 OD, 3/32" ID – or – 4mm OD 2.5 mm ID flexible tubing. Flexible tubing connection to be "push to connect" (preferred) or compression style. Each output to contain orifice style flow control with manual adjustment for flow rate. Each output flow control adjustment must range from 0% to 100% flow.

2c. List required materials needed to make the product, including materials of product components

Main body materials: Aluminum and/or Brass preferred, plastic or other materials optional. Material must be resistant to corrosion from saltwater.

2d. Are there applicable certification requirements?

No

If yes, please explain applicable certification requirements

2e. Are there applicable regulations?

No

If yes, please explain applicable regulations

2f. Are there any other standards, requirements, etc.?

Yes

If yes, please explain other standards, requirements, etc.

Machined fasteners to be Unified Nation Coarse or Fine. Metric threads optional, but discouraged. English Standard Pipe / tubing sizes, metric optional.

2g. Additional Comments

BUSINESS INFORMATION

3. Volume and Pricing

3a. Estimated potential business volume (i.e. # Units per day/month/year)

Low volume / small batch. Ten to Fifty-unit batches. Current batches per year is low but anticipated to increase with dependable & quality supplier.

3b. Estimated target price/unit cost information (flexible and negotiable not accepted)

\$10 – \$20 per unit depending on number of outputs.

4. Delivery Requirements

4a. When is it needed by? (immediate, 30 days, 6 months, etc.)

Current supply is unreliable. Supply should be established within the next 12 months.

4b. Describe packaging requirements (i.e. individually/group packaging)

Retail packaging not required. Group packaging acceptable.

4c. Where will this item be shipped?

Anderson, Indiana 46013

5. Additional Comments

5a. Is there other information you would like to include?

Units currently used are intended for machine lubrication but repurposed for air distribution and flow control. The application: the unit supplies flow-regulated air to a number of process tanks

of saltwater through 5/32" rigid tubes. Flow is adjusted to a "bubble rate" measured as number of individual bubbles per minute. Typical flow rate ranges from 60 to 180 bubbles per minute but may drop to <2 bubbles per minute. Zero flow must be achievable.

6. Requesting Scout

6a. Scout Name

Ranae Stewart

6b. Center Name

Purdue MEP

If an organization other than a Center, please enter

6c. Scout Email

ranaestewart@purdue.edu

Supplier Scouting Number (NIST MEP use only)

Attachments

[IMG_6549.png](#)
[IMG_6551.png](#)
[IMG_6552.png](#)

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