INSTALLATION INSTRUCTIONS

GENERAL
Akron Flow Sensor Weld Bosses are designed for 4”, 4 1/2” and 5” O.D. .125 wall aluminum tube and for 4” Schedule 40 steel pipe.
The Pyrolite boss is hardcoated to improve corrosion resistance, but has an untreated end for welding. It also utilizes a stainless steel sleeve.

PYROLITE BOSS INSTALLATION
1. Cut a circular hole 1 1/8” to 1 1/4” diameter on the topside of the pipe in an area from 9:00 to 3:00 on the perimeter.
2. Deburr area and prepare for welding.
3. If boss assembly is together, completely disassemble all parts including o-ring in groove of boss.
4. Weld boss to pipe according to standard practice. Make sure no weld or debris is in the bore area of sensor. It must be clear.
   NOTE: SENSOR PIN LOCATOR HOLE ON THREADED END OF SENSOR, MAY BE ON UPSTREAM OR DOWNSTREAM SIDE OF THE PIPE.
5. Clean weld area and allow to cool.
6. Apply o-ring lube or silicone grease to o-ring and insert into groove in bore of the boss.
7. Insert stainless steel sleeve completely into the bore, with the chamfered I.D. up.
8. Apply o-ring lube or silicone grease to the o-rings on the flow sensor and insert into sleeve bore with pin locating in locator hole in boss.
9. Thread retainer onto boss with sensor cable connector through the retainer hole. Snug retainer with strap wrench.
10. See Flowmeter Installation Instructions for further guidelines.

STAINLESS STEEL BOSS INSTALLATION
1. Cut a circular hole 1 1/8” to 1 1/4” diameter on the topside of the pipe in an area from 9:00 to 3:00 on the perimeter. This pertains to pipes used in horizontal position only.
2. Deburr area and prepare for welding.
3. Weld boss to pipe according to standard practice. Make sure no weld or debris is in the bore area of sensor. It must be clear.
   NOTE: SENSOR PIN LOCATOR HOLE ON THREADED END OF SENSOR, MAY BE ON UPSTREAM OR DOWNSTREAM SIDE OF THE PIPE.
5. Clean weld area and allow to cool.
6. Apply o-ring lube or silicone grease to the o-rings on the flow sensor and insert into sleeve bore with pin locating in locator hole in boss.
7. Thread retainer onto boss with sensor cable connector through the retainer hole. Snug retainer with wrench.
8. See Flowmeter Installation Instructions for further guidelines.

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Pyrolite Bosses for .125 Wall Aluminum Tubing

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ISO 9001 REGISTERED COMPANY

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PHONE: 519.773.8431 | FAX: 519.773.3794

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