

# MAG METER INSTALLATION INSTRUCTIONS

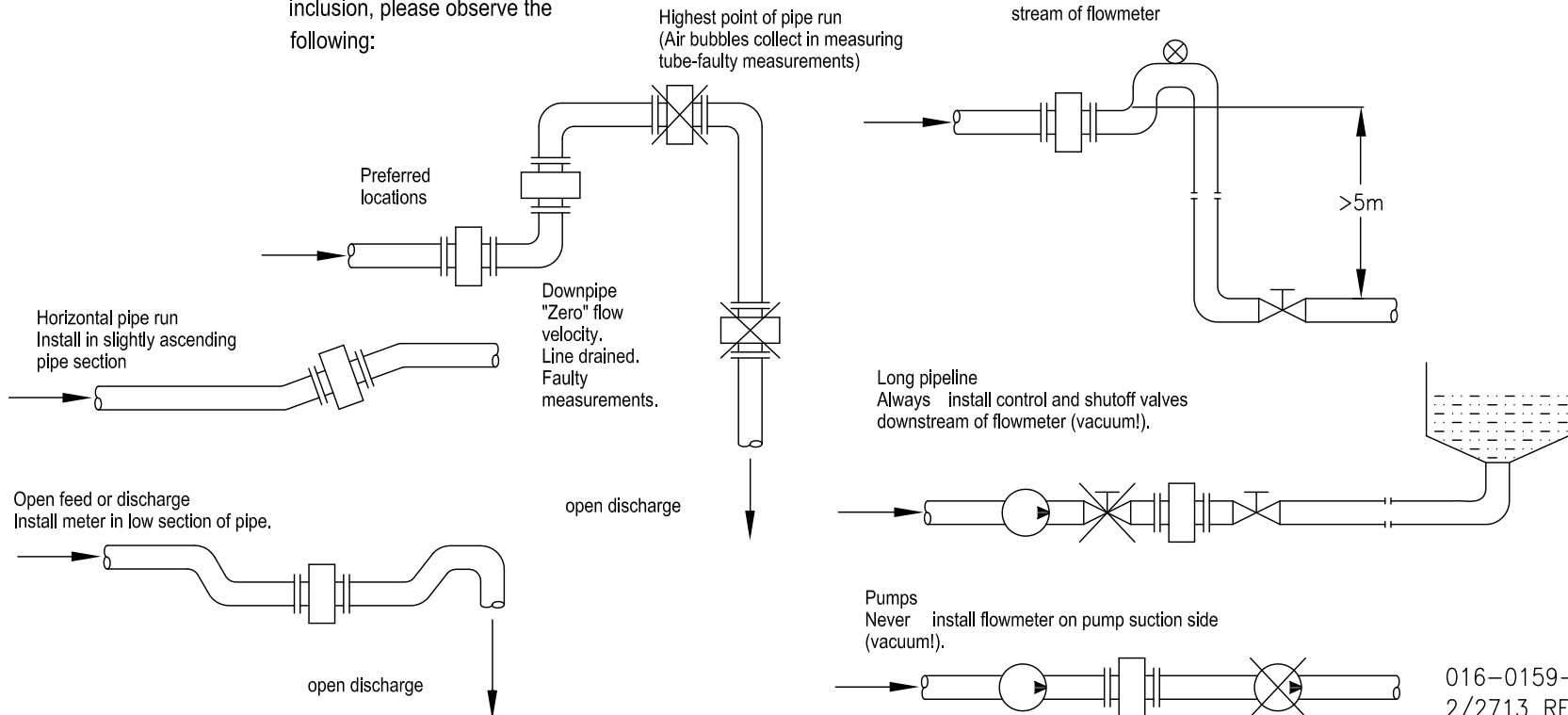
## IMPORTANT:

- Protect flowmeters from direct **sunlight**.  
Fit a sunshade if necessary
- Do NOT pressure wash flowmeter

## MAG METER INSTALLATION GUIDE LINES

- **Location and position as required**, but electrode axis must be approximately horizontal.
- **Stud bolts and nuts**, to install, make sure there is sufficient room next to the pipe flanges.
- **Vibration**, support the pipeline on both sides of the flowmeter. Do NOT expose flowmeter to intense vibration.
- **Large meter sizes (> DN 200 or > 8")**, use adapter pipes to permit axial shifting of counterflanges to facilitate installation.
- **Suggestions for installation**

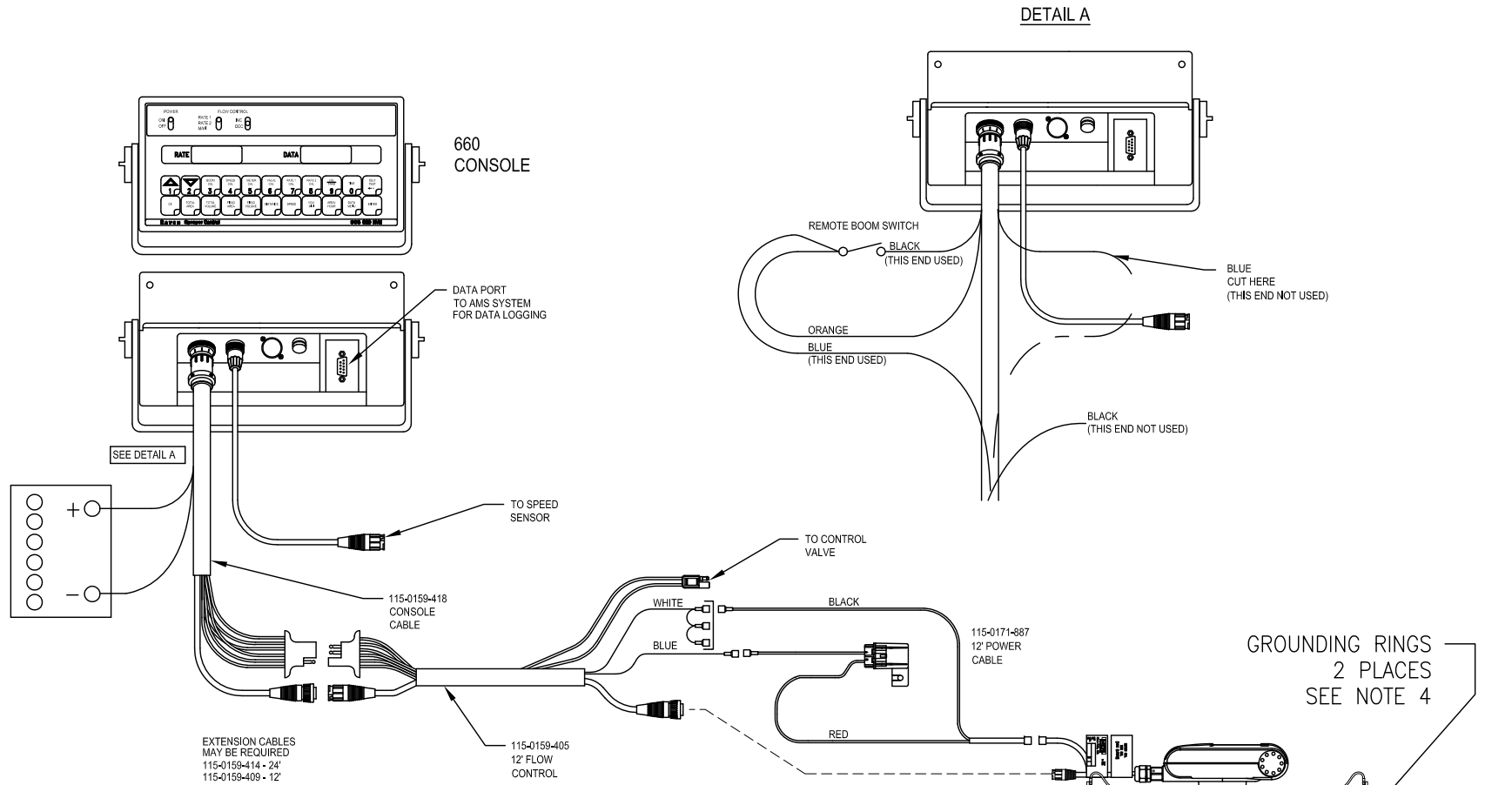
To avoid measuring errors due to air inclusion, please observe the following:



- **Straight inlet run minimum of 5 x DN and outlet run minimum of 2 x DN (DN = meter size)**, measured from electrode axis (undisturbed flow)
- **Vortex or corkscrew flow**, increase inlet and outlet sections or install flow straighteners
- **Strong electromagnetic fields**, avoid in vicinity of flowmeter
- **Thermally insulated pipeline**, do not insulate flowmeter

# WIRING GUIDLINES

## CONNECTING MAG METER TO RAVEN CONSOLE



### WIRING NOTES-CONSOLE

1. Cut blue wire as shown approx. 6" from connector.
2. Pull orange wire out of cable.
3. Connect both the orange and the blue wires to the same side of switch as shown.
4. Pull black wire out of cable. Cut off so 6" lead remains and connect to switch as shown.

### WIRING NOTES-FLOWMETER

1. Connect the blue wire of the flow meter control cable to the red wire from cable 115-0171-887. (+12 VDC)
2. Connect the black wire from cable 115-0171-887 to the white wire of the flow meter control cable. (Battery OVDC)
3. Connect the 3 pin connector of the flow control cable to the 3 pin connector of flow meter cable.
4. Install grounding rings as shown. Connect the grounding rings to the flowmeter using the 2 black wires. (located on the post under the flow meter electronics module).

GASKETS  
NOT INCLUDED

016-0159-896  
2/27/13 REV. D  
SHEET 2 OF 2