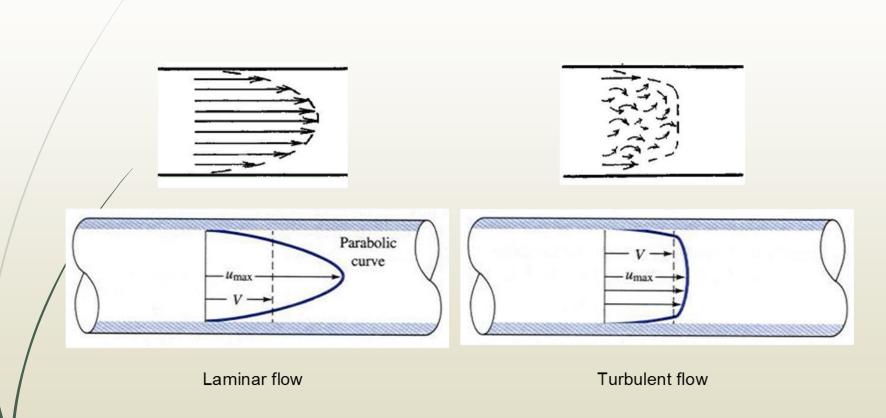
Meter installation

Installation requirements

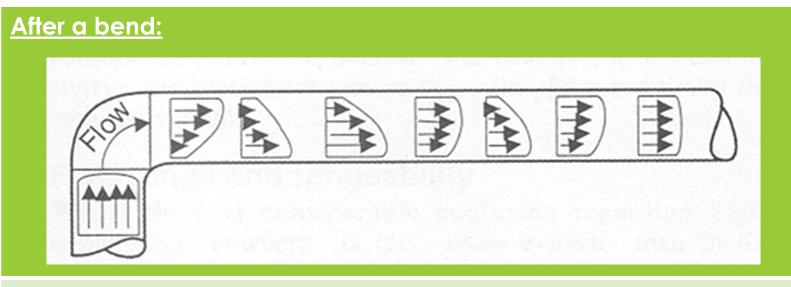
 The meter will only be as accurate as the correctness of its installation



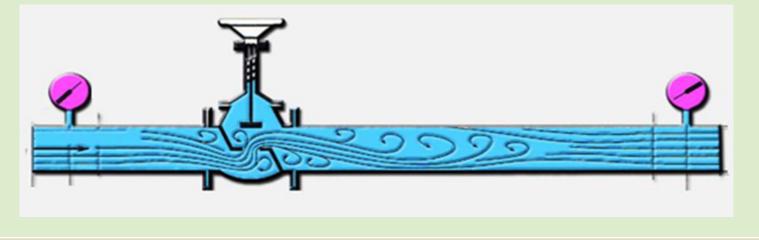
Flow types and profiles



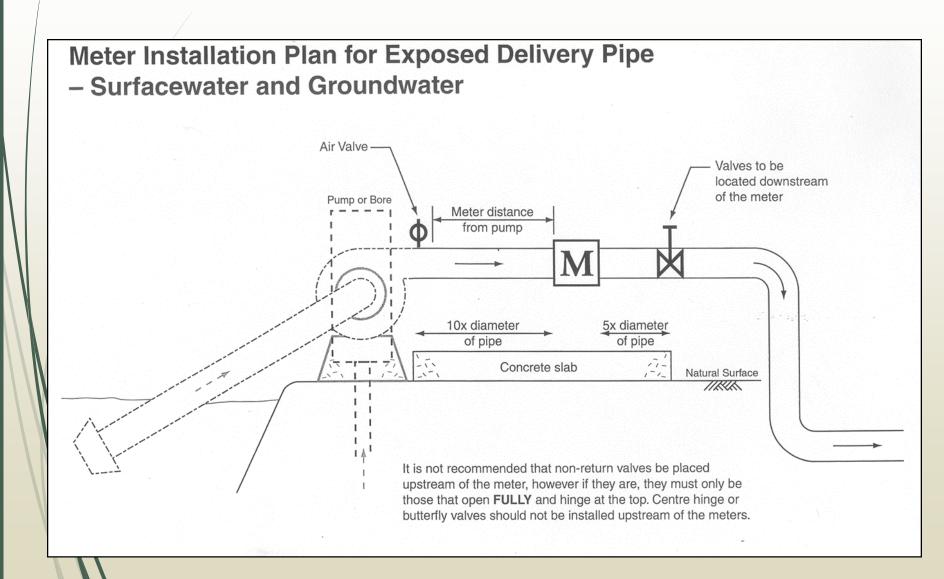
Disturbance of the flow profile



After a valve:

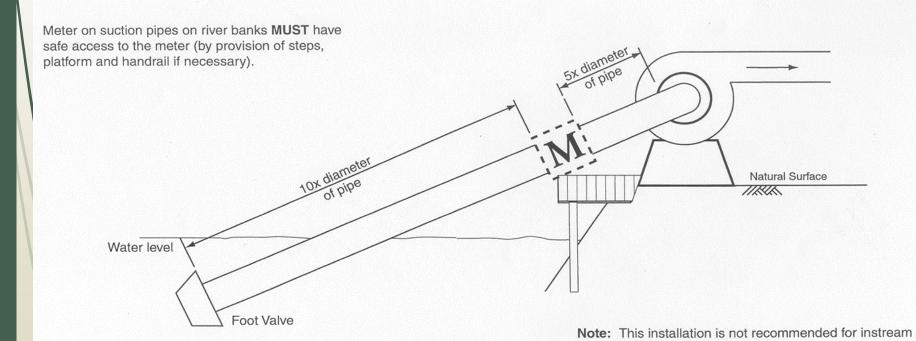


<u>Installation</u>



<u>Installation</u>

Meter Installation Plan for Exposed Suction Pipe Located on or above an Embankment

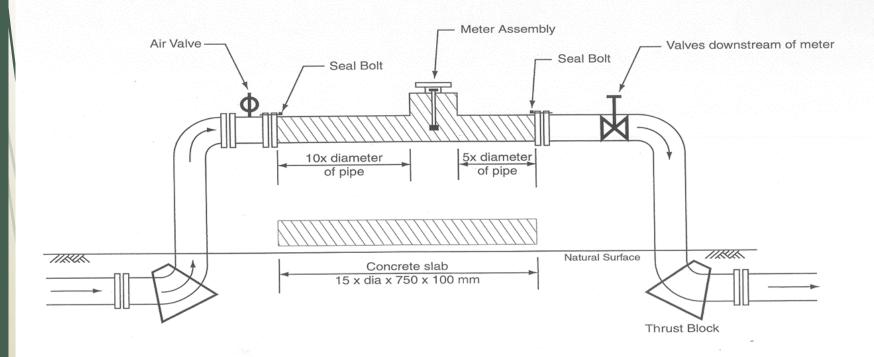


high velocity flooding situations, unless there are

no other options.

Installation

Meter Installation Plan in Underground Main brought to the Surface

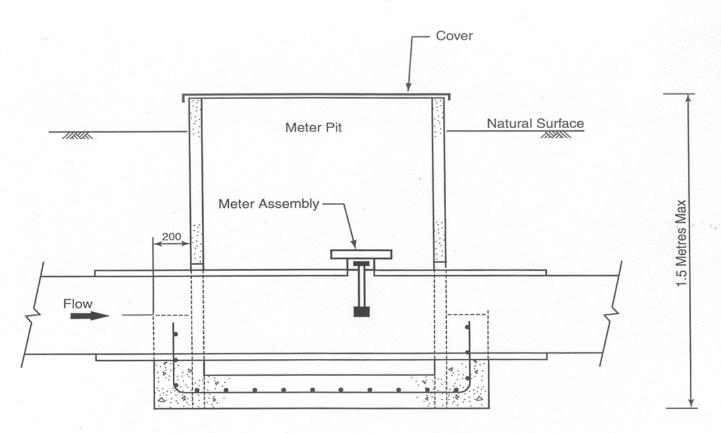


It is not recommended that non-return valves be placed upstream of the meter, however if they are, they must only be those that open **FULLY** and hinge at the top. Centre hinge or butterfly valves should not be installed upstream of the meters.

<u>Installation</u>

Meter Installation Plan in Underground Main in Shallow Pit

(Less than 1.5 m below natural surface)



Note: The pit size must enable the removal of the meter.

Proper Installation (Zero "d" before and after meter)



90° Elbows Low Point

45° Elbows Vertical

The Books



90° Elbows Vertical (upward flow)

Installation requiring "d" before and after meter



"2 d" before and after isolating valves



"2 d" before and Tee piece



"5 d" after pump, "2 d" before isolating valves



"2 d" after strainers (filters)

Not so easy, though!



Meter bodies - examples

THREADED-END FLOWMETER MT100

. 2 " to 6 " line sizes

WELD-ON SADDLE FLOWMETER MW600

. 4" to 48" or larger line sizes

RIGHT ANGLE FLOWMETERS MW800/MM800

• 3" to 24" line sizes



MAIN LINE FLOWMETER FLANGED-END MW900/MG900/MT900

- 2" to 24" or larger line sizes
- · Smooth, grooved, or threaded ends



2" to 12" line sizes













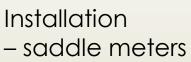
Installation
– flanged meters

















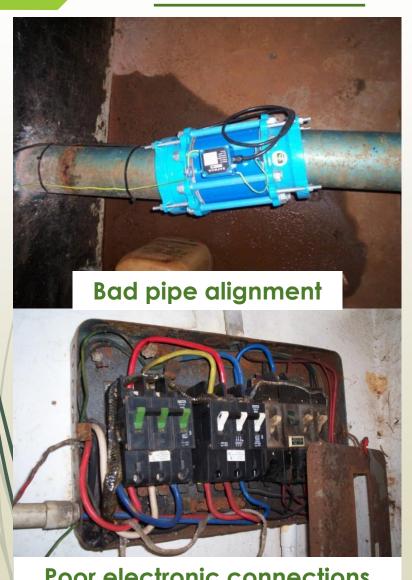
Installation certificate

Installation Certificate

	Merchant Copy	
Affidavit		
-	f the McCrometer water meter at a date of the signing of this docume	
	erify that I have received a copy and the calibration certificate of th	***************************************
Information:		
Name of Farm		
Name of Farm representative		
Name of UIC representative		
McCrometer Serial number		
McCrometer Totaliser Value (m3)	

Farm Representative Signature:	UIC Representative Signature:	Date:

Problems









Meter selection

Technical Data

Model	IRT 80	IRT 100	IRT 150	IRT 200	IRT 250	
Size – (Flange, see price list)	80 mm	100 mm	150 mm	200 mm	250 mm	
Pressure - Maximum (m)	160 metres					
Flow Rate q _{max} (m ³ /h) -Note 1	150	250	500	900	1 400	
Flow Rate q _{nominal} (m ³ /h)	90	125	250	450	750	
Flow Rate q _{transitional} (m ³ /h)	10	11	15	30	70	
Flow Rate q _{min} (m³/h)	5	7	10	18	20	
Straight pipe requirement	10 d before and 5 d after 10 (5) d before and 5 (3) d after meter					
Electronic Volume	100 Litre, 1	1 m³, 10 m³	1, 10, 100 m ³			
Installation	Any position (horizontal, vertical or inclined)					
Accuracy q _{transitional} to q _{max}	± 2%					
Accuracy q _{min} to q _{transitional}	± 5%					
Head Loss	See graph					
Maximum register capacity	10 ⁶ m ³ /h	10 ⁷	10 ⁷ m ³ /h 10 ⁸ m ³ /h		m³/h	
Minimum register capacity	1 litre	10 litre 100 litre				