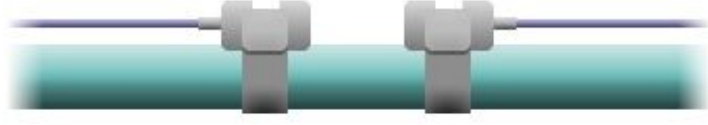


# Selection of the Measuring Point

Select the measuring point so that the sound waves from the transducers propagate the pipe horizontally.  
 (Solid particles are deposited on the bottom of the pipe, gas pockets can develop at the top.)



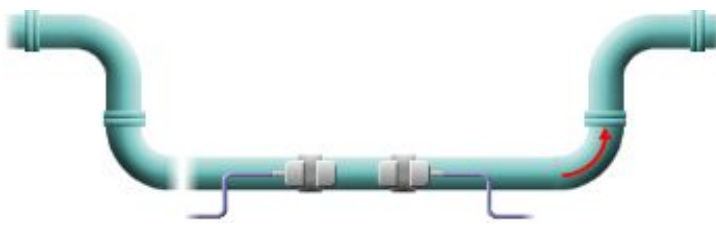
**Correct**



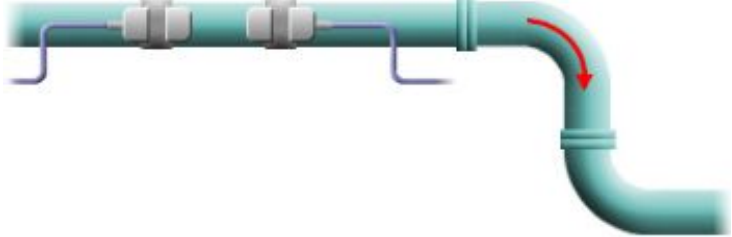
**Incorrect**

## Free inlet or outlet pipe sections

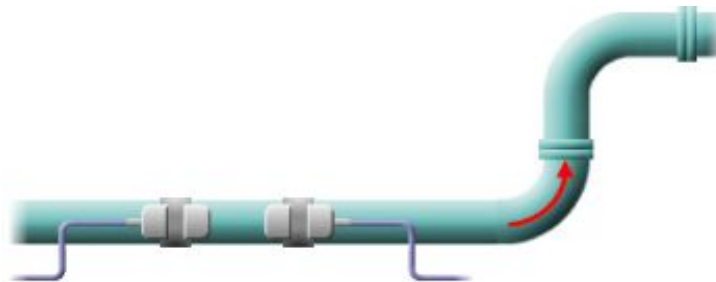
Select the measuring point at a location where the pipe cannot drain out.



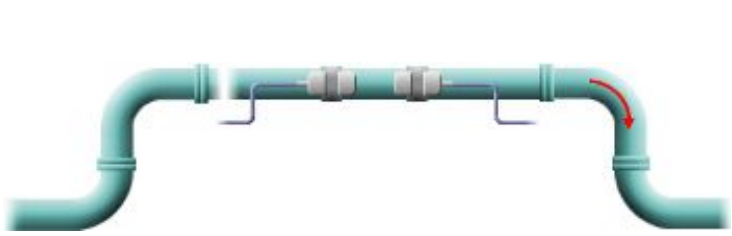
**Correct**



**Disadvantageous**



**Correct**



**Disadvantageous**

## Vertical pipe

Select the measuring point at a location where the liquid flows up.  
 (Pipe completely filled)



**Correct**



**Disadvantageous**

# Selection of the Measuring Point

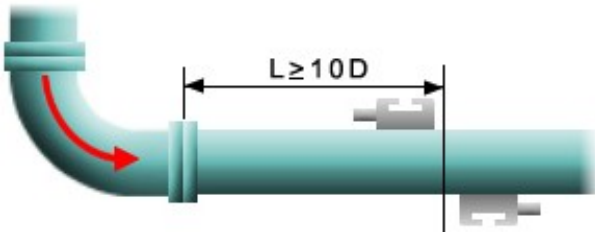
## Distances between Measuring Point and Disturbance Source

In the following examples, recommended straight inlet and outlet pipe lengths are given for different types of flow disturbance sources to assist in selecting the correct measuring point.

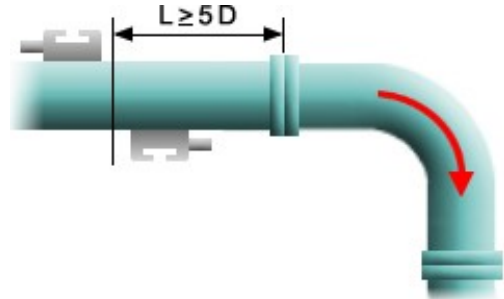
D = Nominal pipe diameter at measuring point

L = Recommended distance

### Disturbance source: 90 °-elbow

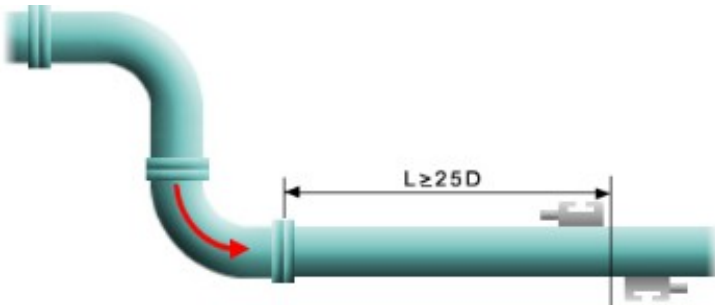


Inlet  $L \geq 10D$

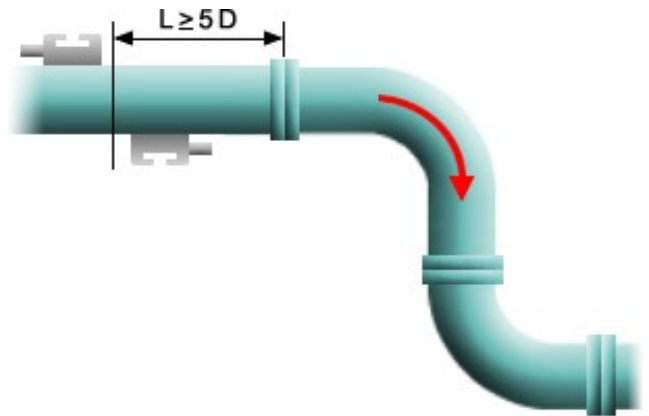


Outlet  $L \geq 5D$

### Disturbance source: 2 x 90 °-elbows in one plane

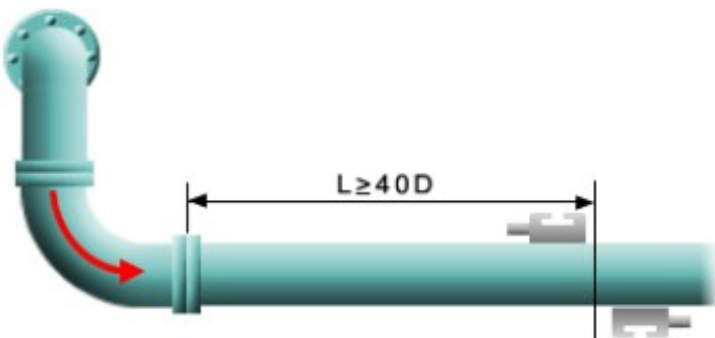


Inlet  $L \geq 25D$

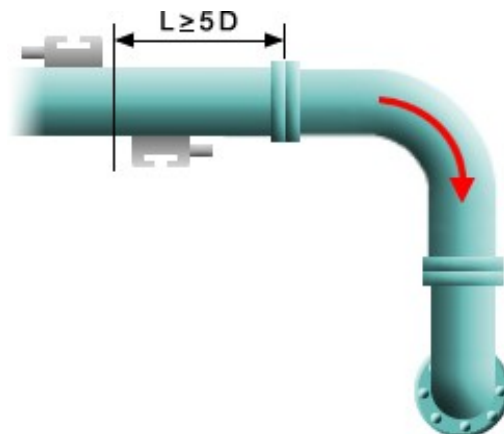


Outlet  $L \geq 5D$

### Disturbance source: 2 x 90 °-elbows in different planes



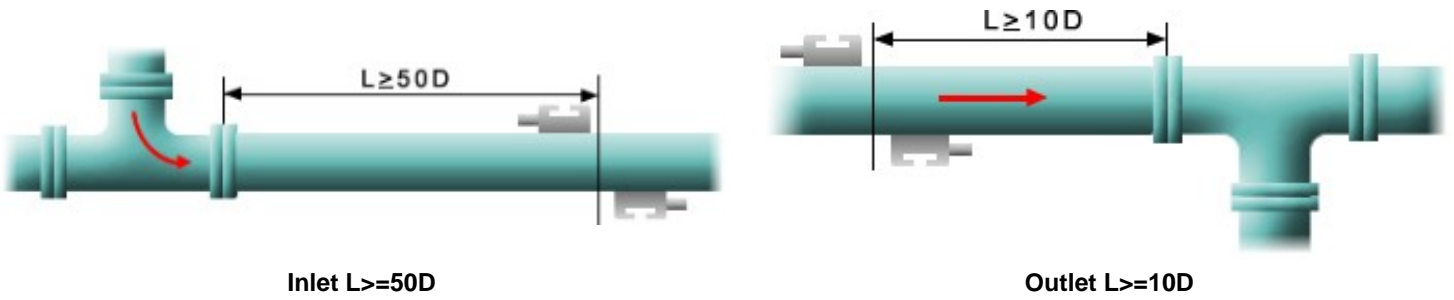
Inlet  $L \geq 40D$



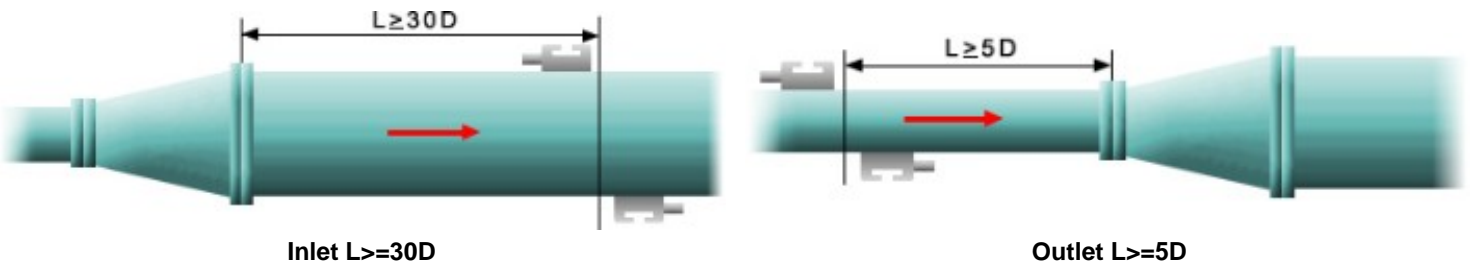
Outlet  $L \geq 5D$

# Selection of the Measuring Point

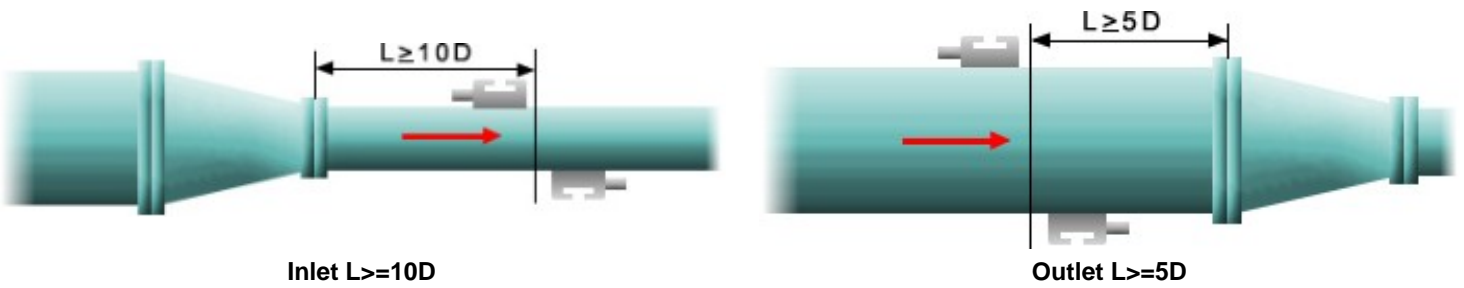
Disturbance source: T-section



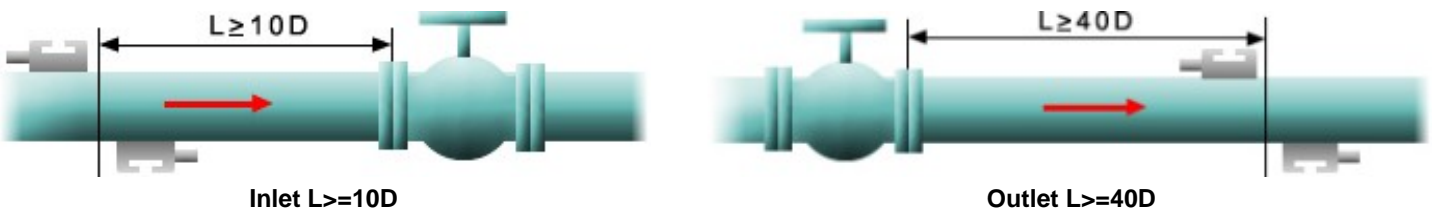
Disturbance source: Diffuser



Disturbance source: Reducer



Disturbance source: Valve



Disturbance source: Pump

