INSTALLATION AND OPERATING CONDITIONS

Sufficiently accurate measuring results can only be achieved by observing installation and operating conditions. For doing so, prerequisite is:

- Drain free from backwater
- Visible water hammer
- Channel drop about 2 up to 5 %
- Straight inlet way about 10th of channel width, medium free from turbulences so as to avoid surface waves from occurring
- Channel’s operating roughness ought to be kept as low as possible
- Flume’s lower part to be positioned horizontally
- At Q = 0 l/min flume must run with no load.

FLUME´S INSTALLATION

On the upper side of the flume are arrows showing the flow direction. Take care that the flume is mounted in this direction. In order to obtain best possible measuring results, adjust flume accurately in all of the three dimensions. Provide for a good foundation so as to prevent a flume lowering from occurring. In order to avoid that flume is deformed following outside pressure, stabilize inner surfaces by means of chip boards or by fastening them by using wooden slats. The same applies to all of the flume ends.

Note: Flume dimensions must not be changed by installation.

Following installation, seal flume as against channel walls so as to exclude a bypass (silicone, asphalt). The ultrasonic height sensor is to be installed as per operating manual iSonic 3000/4000.