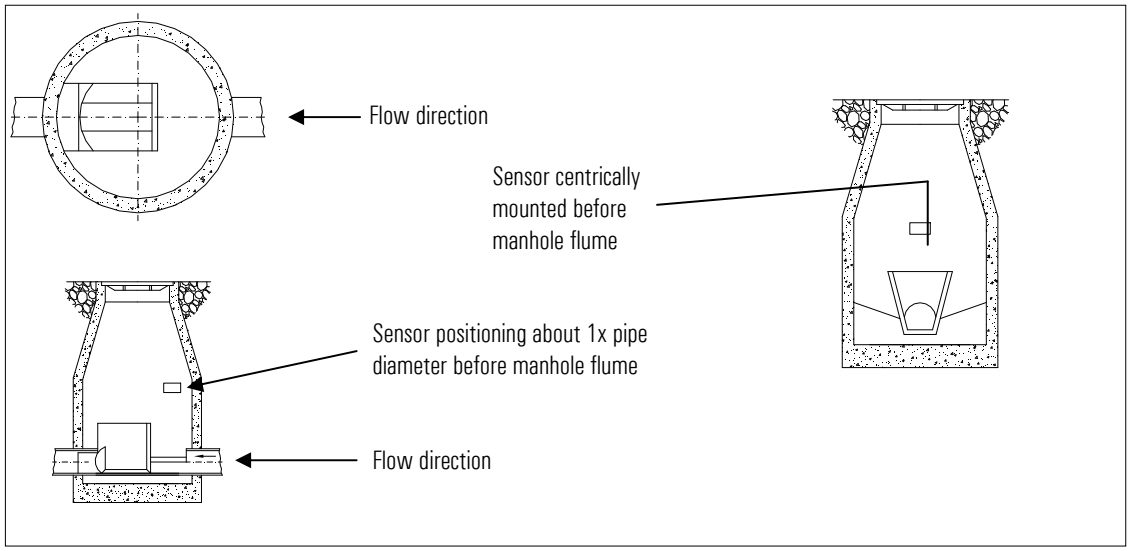
Badger Meter Europa

Badger Meter Europa GmbH
Nürtinger Str. 76
72639 Neuffen (Germany)
Tel. +49-7025-9208-0
Fax +49-7025-9208-15
www.badgermeter.de
badger@badgermeter.de

Manhole flume



Installation and operating conditions

In order to maintain the required measuring accuracy, the manhole flume is to be technically properly mounted.

- The medium flowing into the flume must be freefrom turbulences causing surface waves
- Flow velocity should not exceed 1m/sec., i.e. if required, steps ought to be taken so as to reduce flow velocity.
- Manhole flume´s nominal diameter can be smaller than that of the discharge pipe, however a proper sealing between manhole flume and discharge pipe is to be guaranteed.

Dimensions

	DN 100	DN 150	DN 200	DN 250	DN 300
Manhole flume length (mm)	447	492	613	729	851
Manhole flume width (mm)	192	246	326	396	477
Q max. (l/sec.)	5.7	16.8	35.6	63.4	94.5
Max. water level (mm)	148	226	312	395	457
Q min. (l/sec.)	0.3	0.6	0.7	1	3

Manhole flume´s installation

Put manhole flume in discharge pipe and adjust it carefully in longitudinal and cross direction. Measuring accuracy can only be guaranteed as long as manhole flume has been mounted perpendicularly. While fixing, take care that manhole flume is not deformed (due to pressure or tensile force, etc.). In order to exclude a bypass, the manhole flume outlet needs to be carefully sealed as against the discharge pipe. As for the positioning of a height sensor, please see operating manual iSonic 3000.

Mounting position of the iSonic ultrasonic sensor

Size	Max. flow	Max. water level	V-Mt	H-Mt
DN/Zoll	l/sec	mm	mm	mm
100/4“	5	148	600	146
150/6“	16	227	600	197
200/8“	35	312	600	248
250/10“	63	395	700	298
300/12“	94	457	700	349