



MANHOLE FLUME

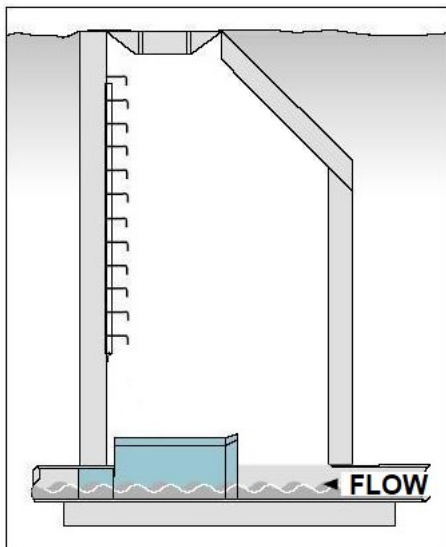
Technical data



- Easy installation and maintenance
- High durability
- DN from 100 to 300 mm
- Measuring range 0,1 – 94 L/s
- High accuracy
- High solid parts conveyance

Description:

Manhole flume is a low head loss flow measurement primary device especially designed to fit into standard manholes. The upstream approach and throat velocities significantly reduce solids deposition.



Its fiberglass reinforced polyester construction, for long life and corrosion resistance, incorporates a low head trapezoidal design in conjunction with a hooded outlet collector and pipe spud. The hooded section, following the throat, prevents bypass leakage under normal flows, yet allows nearly unrestricted flows during emergency conditions.

Flow rate Q calculated from level H is dependent on flume dimensions:

$$Q = K \times H^{1,95}$$

Flume	K (cm, L/s)	K (m, m ³ /s)	max. H(cm)	max.Q (l/s)
DN 100	0.0295	0.2343	14.9	5.7
DN 150	0.0381	0.3026	22.7	15.8
DN 200	0.0431	0.3424	31.3	34.7
DN 250	0.0487	0.3868	39.6	63.1
DN 300	0.0547	0.4345	45.7	94.6

Flumes dimensions (cm):

Flume	E	H	J	L	M	N	Weight kg
DN 100	19.2	15.2	27.8	44.7	19.5	1.0	1,8
DN 150	24.6	22.9	22.9	49.2	25.3	0.9	3,6
DN 200	32.6	30.5	26.2	61.3	33.3	1.2	5,4
DN 250	39.6	38.1	29.2	72.9	40.2	1.5	7,7
DN 300	47.7	45.7	32.5	85.1	47.7	1.8	10,8

