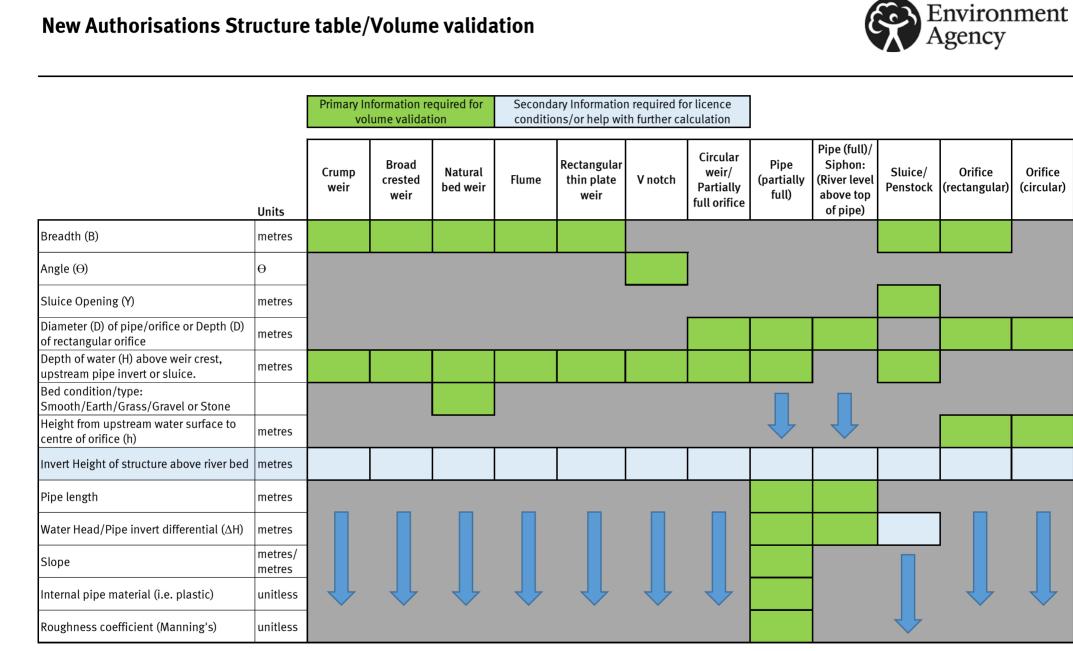
New Authorisations Structure table/Volume validation



| | Units | Crump weir | Broad crested weir | Natural bed weir | Flume | Rectangular thin plate weir | V notch | Circular weir/ Partially full orifice | Pipe (partially full) | Pipe (full)/ Siphon: (River level above top of pipe) | Sluice/ Penstock | Orifice (rectangular) | Orifice (circular) | |
|---|--|---|--------------------------|---------------------|-------|-----------------------------------|---------|--|-----------------------------|--|---------------------|--------------------------|-----------------------|--|
| Maximum number of hours abstraction per day | hours | | | | | | | | | | | | | |
| Maximum number of days abstraction per year | days | | | | | | | | | | | | | |
| Max instantaneous flow rate | litres per second | | | | | | | | | | | | | |
| Max Flow auto calculated | m ³ hour | | | | | | | | | | | | | |
| Max Flow auto calculated | m ³ day | | | | | | | | | | | | | |
| Max Flow auto calculated | m ³ year | | | | | | | | | | | | | |
| Parameters | Description of parameters – Applicant can request guidance document from Environment Agency for further details and diagrams to help with their application | | | | | | | | | | | | | |
| Breadth (B) | Breadth (or width) of structure from edge to edge where water is flowing. Not required for circular structures. | | | | | | | | | | | | | |
| Angle (O) | Angle of V notch weir, e.g. 90° | | | | | | | | | | | | | |
| Sluice opening (Y) | Width of sluice gate opening | | | | | | | | | | | | | |
| Diameter (D) of pipe/orifice or Depth (D) of rectangular orifice | For a circular orifice, provide diameter. For rectangular orifice, measure depth of orifice opening. | | | | | | | | | | | | | |
| Depth of water (H) | Depth of v | Depth of water (H) above weir crest, upstream pipe invert or sluice | | | | | | | | | | | | |
| Bed condition/type | Earth, grass, gravel, stone. For natural bed only. | | | | | | | | | | | | | |
| Height from upstream water surface to centre of orifice (h) | As described | | | | | | | | | | | | | |
| Invert height of structure above river bed | Height between lowest point of structure above river bed. If abstraction occurs during all river flows, put zero. | | | | | | | | | | | | | |
| Pipe length | _ | Length of pipe from intake point to discharge point | | | | | | | | | | | | |
| Water head differential/Pipe invert difference (∆H) | | | | | | eam water leve | | | | | | | | |
| | - | | | - | | downstream ir | | | | | | | | |
| | For sluice, provide only if DOWNSTREAM levels is drowning out aperture (see guidance) | | | | | | | | | | | | | |
| Slope | | Pipe length ÷ difference of upstream and downstream pipe inverts | | | | | | | | | | | | |
| Internal pipe material | | For example, plastic, copper, brick etc. | | | | | | | | | | | | |
| Roughness coefficient | - | s roughness | | | | | | | | | | | | |
| Max instantaneous flow rate | Maximum rate of flow of the intake structure. This will need to be calculated by the applicant and will be validated by the Environment Agency (see guidance). | | | | | | | | | | | | | |