

**Asset Management Directorate  
Guidelines  
For The Design Of Water  
Distribution Networks In  
Al Ain Region**

**GL.AM.01**

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Managing Director

The size of service connections shall be defined in coordination with AADC during the design stage and shall be confirmed with AADC (i.e. CSD) during the construction stage.

The size of the domestic connection on AADC existing networks is decided by the CSD when the customer applies for the connection. A guide for the recommended sizes for the domestic connections constructed under third parties water projects is shown below.

Table 9: Guide for sizing Domestic Connections for Water Projects Provided by Third Parties.

<b>Nominal size. (External Dia in mm)</b>	<b>Size in Inches (Internal Dia)</b>	<b>Plot type / Plot size</b>
20 mm	1/2	Apartments
25 mm	3/4	Shabia and plot of 1080 m2 size
32 mm	1.0	Villas
40 and 50 mm	1 1/4, and 1 1/2	Large Villas (to be confirmed with AADC)

## **6.22 Bulk Service Connections**

The service connections to customers of sizes 100 mm and above are considered as bulk connections (BC). The 50 mm sizes are selected and approved by the same procedure of the Bulk Connection.

The water demand, design and construction of the bulk connection shall be carried out according to AADC/ADWEA applied procedures for bulk connections.

Generally AADC define the size and design the bulk connections for the customer after the customer or his representative apply to AADC for the connection. The customer shall construct the bulk connection through a contractor approved by ADWEA and under AADC supervision. The customer shall bear all the incurred cost such as the design cost, AADC construction supervision fees and the construction cost.

In some cases AADC may design and construct the bulk connections under AADC budget and projects. Also Consultants may design the bulk connection if