Cadent
Your Gas Network

Gas Kiosks

Dimensions and Base Construction Guide

About this document

Gas Kiosks are used for larger gas meters than the standard domestic meters. Where a Gas Kiosk is freestanding, it must have a suitable concrete base. The following is to ensure that concrete bases for gas meter installations and Pressure Reduction Installations are designed and constructed in accordance with the current standards. The Gas Kiosk Dimensions table included in this document should be used as a guide and checks should be made with the manufacturer to confirm the dimensions of the Rig and Kiosk to be installed. Also, a check on the position and orientation of the inlet and outlet headers should be confirmed before the base is cast.

Kiosk Dimensions

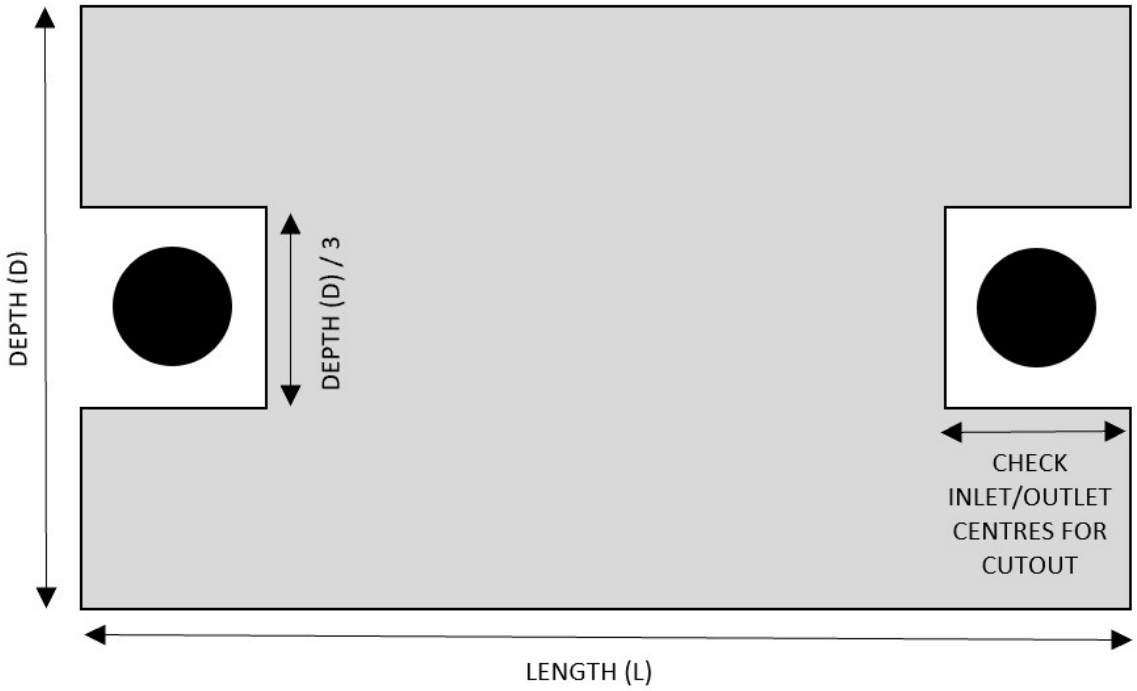
Kiosk Code	Installation Type	Meter Type	Pressure	Dimensions			Weight (kg)	Ventilation		Material	Colour
				Length	Depth	Height		m³	FAV (%)		
GC2	Wall Mounted	U16	Low	650	400	650	14.1	0.17	8.5	GRP	BRG
GC2FS	Floorstanding	U16	Low & Medium	730	425	830	8.2	0.25	9.2	GRP	BRG
GC2MP	Wall Mounted	U16MP	Medium	750	360	850	16.6	0.2	8	GRP	BRG
GC3	Wall Mounted	U25	Low	900	360	850	19.8	0.27	8.5	GRP	BRG
GC4	Floorstanding	U16, U25	Low & Medium	1000	540	960	24.4	0.5	8.5	GRP	BRG
GC4	Floorstanding	U40	Low	1000	540	960	24.4	0.5	8.5	GRP	BRG
GC4 PLUS	Floorstanding	U40	Medium	1200	750	1200	43.4	1	8.4	GRP	BRG
GC5	Floorstanding	U65	Low & Medium	1475	750	1350	56.4	1.3	8.1	GRP	BRG
GC6LP	Floorstanding	U65, U100, Compact Rigs & Modules	Low	1600	850	1450	62.5	2	8.7	GRP	BRG
GC6EXPL	Floorstanding	U65, U100, Compact Rigs & Modules	Low	1600	850	1450	62.5	2	8.7	GRP	BRG
GC6MP	Floorstanding	U65, U100, Compact Rigs & Modules	Medium	1600	850	1450	62.5	2	47.3	GRP	BRG
GC7LP	Floorstanding	U65, U100, Compact Rigs & Modules	Low	1600	850	1595	74.5	2	8.7	GRP	BRG
GC7EXPL	Floorstanding	U65, U100, Compact Rigs & Modules	Low	1600	850	1595	74.5	2	8.7	GRP	BRG
GC7MP	Floorstanding	U65, U100, Compact Rigs & Modules	Medium	1600	850	1595	74.5	2	47.3	GRP	BRG
GC7+LP	Floorstanding	U65, U100, Compact Rigs & Modules	Low	1600	850	1595	81.5	2	8.7	GRP	BRG
GC7+EXPL	Floorstanding	U65, U100, Compact Rigs & Modules	Low	1600	850	1595	81.5	2	8.7	GRP	BRG
GC7+MP	Floorstanding	U65, U100, Compact Rigs & Modules	Medium	1600	850	1595	81.5	2	47.3	GRP	BRG
GC8MP	Floorstanding	Compact Rigs & Modules	Low & Medium	2400	1220	1800	72	2.6	24	GRP	BRG

General Requirements

- In all cases the base of a kiosk should be concrete to BS 8500 Concrete – Complementary British Standard to BS EN 206-1 and shall conform to BS 8500-2.
- The ground should be prepared with a compact layer of Type 1 material 100mm thick for GC2 to GC7 kiosks (Standard construction).
- Bespoke kiosks ground should be prepared with a compact layer of Type 1 material 150mm layer bespoke kiosks (non-standard construction).
- Damp proof membrane required between the Type 1 and concrete base.
- Concrete designation PAV2 is a concrete minimum strength class RC28/35 mix with air entrainment or a concrete designation C32/40 without air entrainment may be adopted.
- The concrete layer should be a minimum of 100mm for standard constructions and 200mm for non-standard construction.
- The finished surface must be level and dressed for anti-slip.
- The inlet and outlet headers should be level in all directions and the stability flange on the Governor riser should be at the floor level.
- All PE should be below the concrete and hardcore layer covered in sand / fine fill.
- The inlet and outlet slots should be filled with sand and compacted to 50mm from the finished level tapering to the depth of concrete on the outer edge of the base construction and a minimum 50mm screed applied.
- The Rig and Kiosk should be secured to the concrete base via suitable fixing bolts (minimum of 50mm penetration into the concrete).
- The kiosk should be sealed with a waterproof sealant where kiosk and concrete base meet.
- IP installations require a bespoke design approved and appraised in the site specific GL5 design.

Kiosk Base Construction Diagram

for standard arrangement



Non -Standard Arrangement bases

- Check the rig configuration for the number of cut outs required to accommodate the inlet and outlet.
- Concrete Designation to be PAV2 in accordance with BS 8500.
- The top level of the base slab is to be 100mm above ground level.
- A minimum of 350mm of Type 1 shall be placed and compacted below slab in two layers.
- If soft material is detected below this Type 1, it should be dug out and replaced with Type 1.
- Granular Material compacted in layers, maximum layer thickness 150mm.
- Depth of bolt penetration into concrete to be not less than 50mm and not greater than 150mm.
- Rig up to 635 kg weight concrete layer 200mm.
- Rig above 635 kg to 850kg concrete layer 250mm.
- Above 850kgs specialist design required.

Bases for I.P. installations and larger kiosk must be a bespoke design.