

**Owner's manual FG10VG----PRAHER CANADA PRODUCTS LTD**  
**"SUBMERGED SUCTION FITTING"**

**GRATE AND FRAME OWNER'S MANUAL-- MODEL FG10VG**



Read and keep these instructions for future references.

**Failure to follow instructions can cause severe injury and / or death.**



**WARNING: -Suction entrapment hazard**



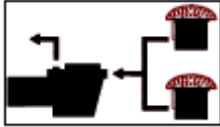
Suction in suction outlets and/or suction covers which are damaged, broken, cracked, missing or unsecured can cause severe injury and /or death due to the following:

- **HAIR** Entrapment  
Hair becomes entangled in suction cover
- **LIMB** Entrapment  
Limbs inserted into an opening of a suction outlet sump or suction outlet cover that is damaged, broken, cracked, missing or not securely attached can result in a mechanical bind or swelling of the limb.
- **BODY SUCTION** Entrapment
- Negative pressure applied to a large port
- ion of the body and/or limbs can result in a body entrapment
- **EVisCERATION/DISEMBOWLMENT** Entrapment  
A negative pressure applied directly to the intestines through an unprotected suction outlet sump or suction outlet cover which is damaged, broken, cracked or missing or unsecured can be resulting in disembowelment/evisceration.

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- TO REDUCE RISKS-follow these guidelines:



- A minimum of two suction outlets per pump must be installed (minimum of three feet or 94 cm apart, as measured from suction pipe center to suction pipe center – or if closer on different planes, i.e. one on wall and one on floor or both on different walls)
- Dual suction fittings shall be installed in such location and in distances to avoid dual blockage by the user( do not install in seating area or on backrest)
- Do not exceed the maximum flow rate of 108 USGPM per drain fitting (recommended /acceptable pipe size per sump = 3 inches)
- Keep outlet covers clear of any obstructions such as debris, leaves, dirt, hair etc..
- Remove damaged or cracked covers immediately and replace with new part of same make and listing
- Remove all winterization and or test plugs before starting up the pool.
- Inspect all covers and fasteners before starting up pool-lose suction fittings shall be reattached or replaced before using the facilities.
- Multiple layers of protection are available such as vent pipe systems, gravity flow and vacuum systems.
- Only replace a pump with a similar flow curve (avoid higher rated flow pumps)
- The suction system must be designed so that it can handle the pumps maximum flow in case that one suction fitting is fully blocked

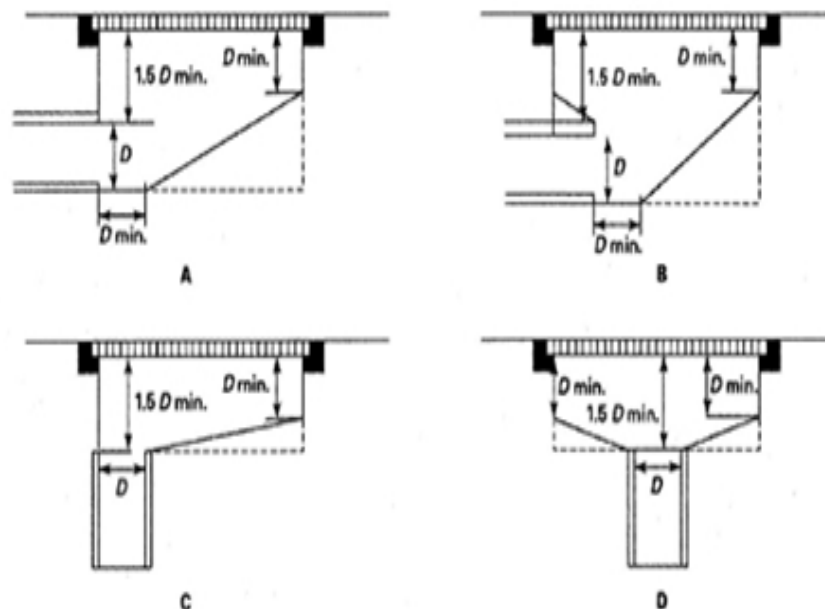
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- Suction outlet components are made from plastic that only have a finite life as stated in the cover engraving. The plastic components shall be replaced within that life span as their function is no longer guaranteed. Sunlight and chemical attack typically make the plastic weak and brittle over time.
- Read, than keep these instructins for future references

### DUAL SUBMERGED SUCTION OUTLET

Field built sumps must be built in accordance with the following:

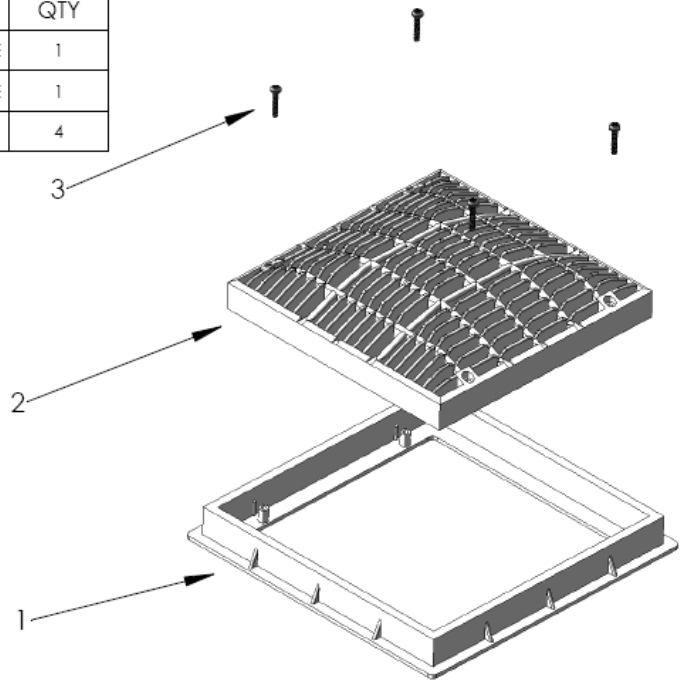


#### GENERAL NOTES:

- (a)  $D$  = inside pipe diameter.
- (b) All dimensions shown are minimums.
- (c) A broken line (----) indicates suggested sump configuration.

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ITEM	PART NUMBER	DESCRIPTION	MATERIAL	QTY
1	FG10VG1	FRAME	ASA UV WHITE	1
2	FG10VG2	GRATE	ASA UV WHITE	1
3	FG10VG3	10-16 x 1" SCREW	316 SS	4



This product is rated at a maximum allowable flow of 108 USGPM for floor and wall installation.

The head loss is 0.1 psi at 108 GPM flow rate.

Nov1st2013, rev3

This product complies to ANSI/APSP16-2011. Tested by NSF International.

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**Tools required:**

A: needle nose pliers to help remove the grate

B: one Phillips type #3 screw driver to loosen and tighten the screws

Caution: Do not use excessive force when tightening the screws as they are self tapping screws and damage to the anchoring bosses of the frame that hold the screws may occur.

Recommended torque 10-15 inch lbs.

**When installing new frames in older grates:**

Praher recommends replacing old frames when replacing grates as plastic deteriorates by exposure to sun light and chemicals.

However, if old frames have not deteriorated in color and show no other mechanical defects than the installer may choose to leave the frame installed and replace the grate only. This will however take the product liability away from the manufacturer as we recommend full replacement every 7 years.