



## Installation Instructions

A&A's PDR<sup>2</sup> 10" VGB drain (Model 790), a submerged suction outlet, must be installed as multiple drains on the same suction line (minimum of 2 drains) 3 feet apart or on different planes. **NEVER LOCATE FITTINGS ON SEATS OR BACKRESTS.**

The maximum allowable system flow rate for the PDR<sup>2</sup> 10" VGB drain is 93GPM (Starite sump model # MN 07017-1093). If one fitting becomes clogged, the second must be capable of handling maximum system flow. Changing pump size will affect system flow rate. **CAUTION: DO NOT EXCEED MAXIMUM ALLOWABLE FLOW RATE.**

Fitting condition, including fasteners, should be inspected regularly. Any loose or damaged fittings must be replaced prior to using the pool. Drain covers and fasteners should be replaced every 5 years (Part# 562011).

For installations requiring more than the certified flow rate for a dual-drain system refer to section 4.6.2 of ANSI/APSP-7 2006 (Table 1) for directions on how to calculate the allowable flow rate for three or more suction outlets.

The PDR<sup>2</sup> drain may be installed using a sump or using a traditional field fabricated sump/niche. Per ASME A112.19.8a – 2008, the use of the suction fitting with a field fabricated sump built in accordance with Figure 2 of that standard shall be permitted and designed by a Registered Design Professional. Field fabricated sump flow rates should also be designated by the Design Professional as they will vary depending on sump depth and width.

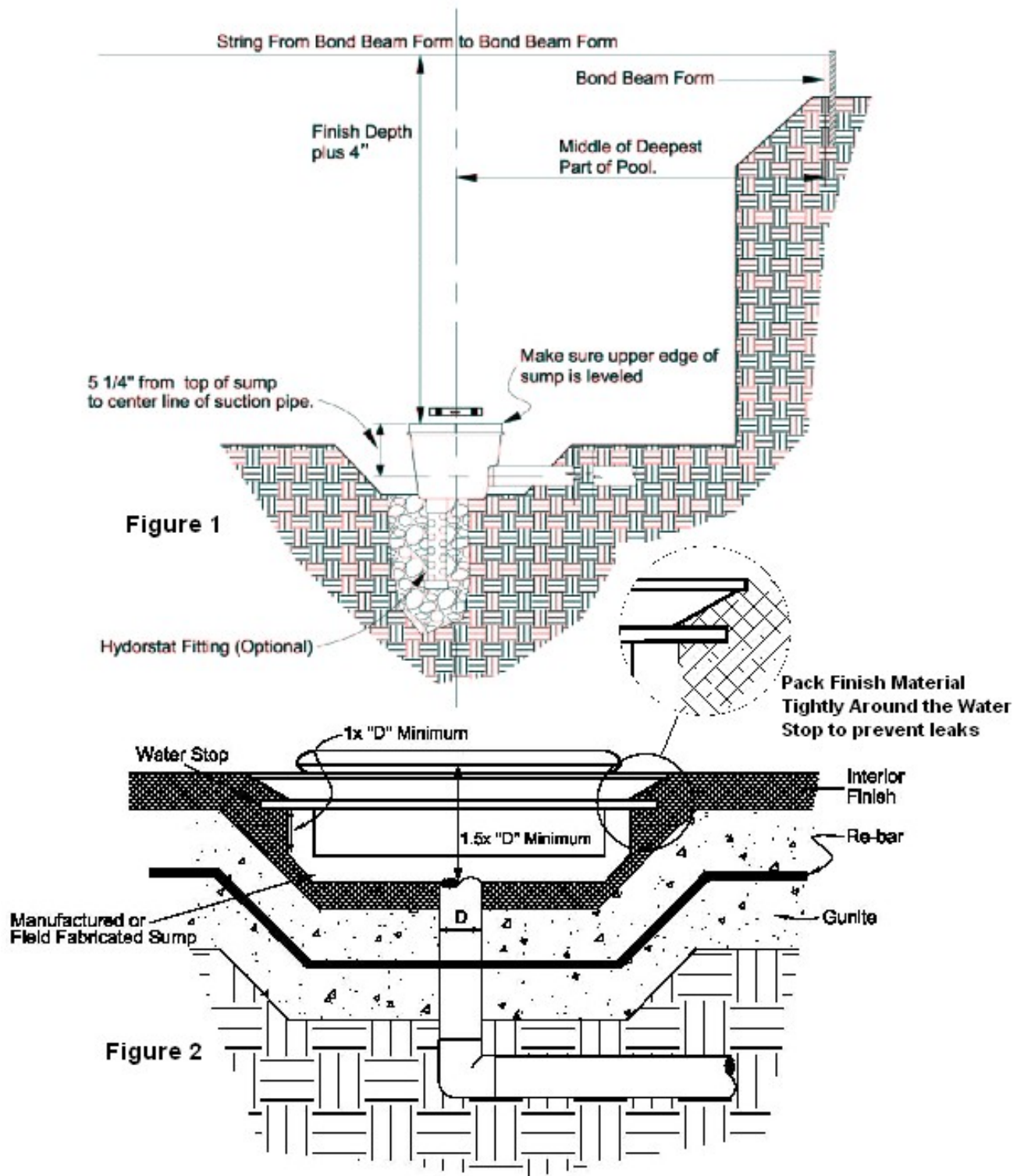
Figure 1 provides detailed dimensional requirements for setting the sump to ensure proper pool depth. The minimum recommended plumbing diameter is 2".

To ensure a water-tight seal make sure to pack the interior finish material tightly around the water stop on the lower frame of the drain (Figure 2).

Install the cover using the supplied Torx safety screws, and do not exceed 15"/lbs of torque. **\*DO NOT USE POWER TOOLS TO TIGHTEN THE SCREWS\*.**

Winterizing or service is normally not required. Drain cover requires a Torx Safety Screwdriver to remove/install screws.

Read, and then keep these instructions for future reference.



**Table 2:** Head Loss Data (provided by NSF International)

<b>Flow Rate (GPM)</b>	23.8	46.3	69.6	93.4
<b>Total Head Loss (PSI)</b>	0.00	0.05	0.11	0.14

# A&A's PDR<sup>2</sup> 10" VGB Floor Drain

## Homeowner Copy of ASME Compliance Instructions

**Note to the Pool Builder:**

This page of ASME Compliance Instructions must be left with the Homeowner for filing and future reference.

**Note to the Homeowner:**

These instructions must be read and retained in a permanent file for future reference of installation requirements and part numbers for immediate replacement of damaged, worn

**WARNING:** Do not exceed the maximum flow allowed by the NSF (find maximum flow allowed by NSF marked on the 10" VGB Drain top) for this fitting by adding pumps or increasing the horsepower of the existing pump.

Periodically observe and inspect the 10" VGB cover and its' fasteners for evidence of wear or tampering and immediately replace any part found defective before using again.

The following are part descriptions and part numbers for the PDR<sup>2</sup> 10" VGB Floor Drains:

Part Description	Color	Part Number	Life Span
10" VGB Debris Removal Drain	white	564308	5 years
" " " "	light grey	560737	"
" " " "	gray	564332	"
" " " "	black	564308	"
" " " "	blue	564316	"
" " " "	gold	564324	"

Drain Screws (316 SS)(Tamper proof)  
Torx Screwdriver (for Drain Screws)