

Product Installation Instructions

HDV-DOC-102 Rev.0



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Customer / Manufacturer Responsibilities

Customer Responsibilities

The customer (or their appointed engineer or contractor) is responsible for:

- Designing and constructing a foundation or supporting structure suitable for the installation.
- Verifying that the supporting structure has sufficient load-bearing capacity for the enclosure and all applicable operational loads.
- Preparing all mounting interfaces in accordance with this document.
- Drilling and installing the anchor bolts in accordance with the anchor bolt's manufacturer's instructions.

Manufacturer Responsibilities

HD Modular Valve Vaults provides:

- The enclosure.
- Interface dimensions.
- Mounting hole locations.
- Enclosure weight.
- Lifting instructions.
- Installation instructions for the enclosure only.

The enclosure weights provided in this document are intended to assist the customer in the structural design and verification of the supporting foundation or structure. These are the net enclosure weights only. It is the customer's responsibility to apply appropriate safety factors and determine the design loads for the supporting structure.

Scope-Product Range

This document covers the basic on-site installation instructions for
HDV-1200; HDV-1600; HDV-1800



This document provides installation instructions for the HD Modular Valve Vault enclosure only. Design and construction of the concrete foundation, valve arrangement, pipework and associated civil works remain the responsibility of the customer or project contractor.

Included in this document are the on-site installation instructions of the three product families, HDV-1200; HDV-1600; and the HDV-1800. See fig. 1. These instructions apply to all variants within each product family. See Fig.1

Fig.1

Safety Information

Before starting, ensure proper safety for everyone around the site by following these simple rules.

- Wear appropriate PPE.
- Keep personnel clear during lifting.
- Inspect lifting equipment before use.
- Never lift the enclosure with doors open.
- Ensure lifting capacity exceeds enclosure weight
- Do not lift the enclosure during strong winds.

Pre-installation checklist

- ✓ Concrete foundation complete
- ✓ Foundation level verified
- ✓ Anchor bolts installed
- ✓ Anchor bolt spacing verified
- ✓ Lifting equipment certified
- ✓ Enclosure inspected for transport damage
- ✓ All components present

Required Tools

The following tools are required for installation.

- Crane or forklift
- Certified lifting slings
- M12 lifting eye bolts (supplied by the manufacturer)
- Torque wrench
- Spirit level
- Hammer drill
- Tape measure
- Appropriate PPE

Installation Procedure

Steps to follow to install the HDV enclosure.

- Step 1- Verify that the concrete foundation matches the interface dimensions shown in Figures 2–5. Confirm that the M12 anchor bolts have been installed in accordance with the anchor manufacturer's instructions.
- Step 2- Install the four M12 lifting eye bolts on top of enclosure (Fig.3)
- Step 3- Lift enclosure
- Step 4- Position the enclosure over the anchor bolts
- Step 5- Check level
- Step 6- Tighten the anchor bolts to the torque specified by the anchor bolt manufacturer.
- Step 7- Install valves and associated equipment
- Step 8- Final inspection

HDV-1200

HDVB-1200 & HDVP-1200

Key Interfaces:

Dimensions in (mm):

- d1 - 965
- d2 - 125
- d3 - Minimum = 100
- d4 - 130
- d5 - 480
- d6 - 540(=d8/2)
- d7 - Maximum = 840
- d8 - 1080
- d9 - 1157
- d10 - 554
- d11 - 1114

Dimensions d9, d10, and d11 are the maximum internal available space.

Installation Notes

- Install using 6x M12 anchor bolts.
- The lifting eye bolts shall be installed symmetrically about the lifting centreline (see Fig. 3).

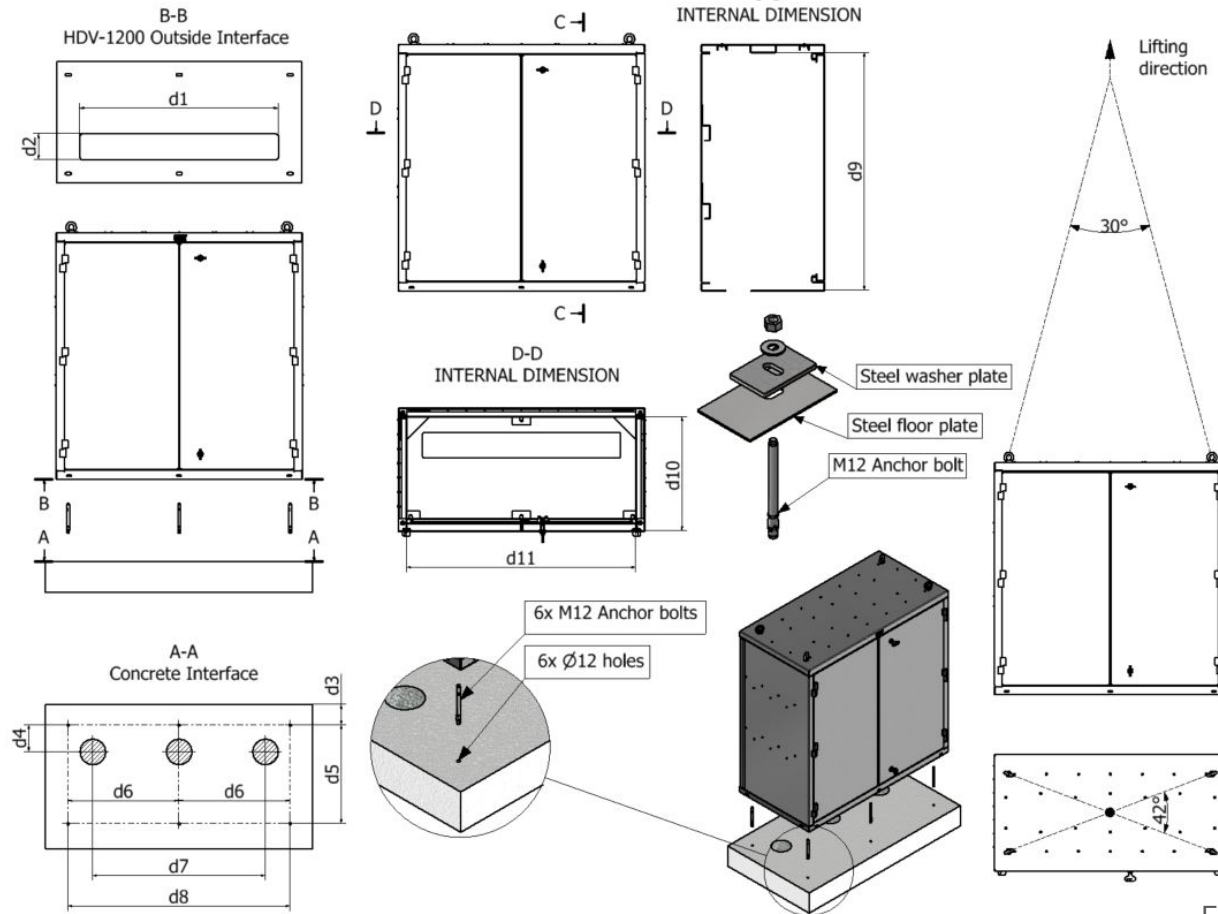
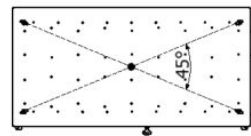
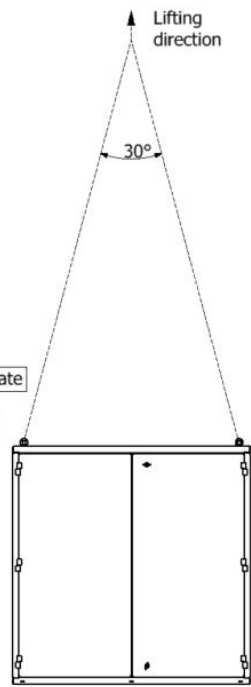
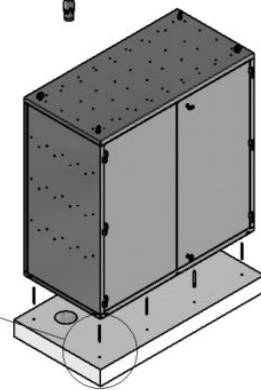
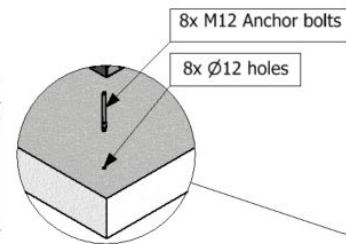
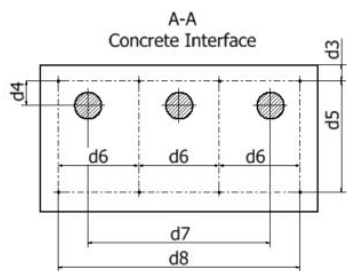
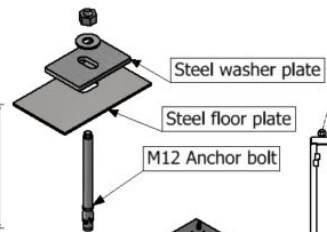
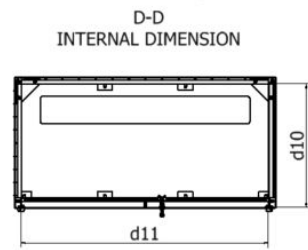
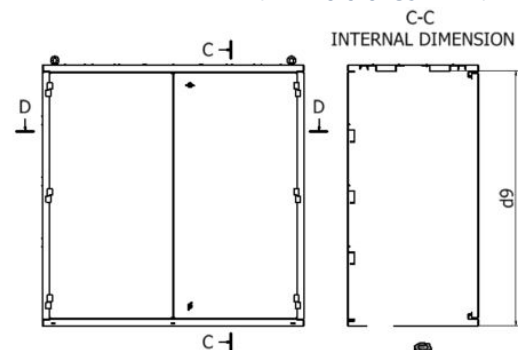
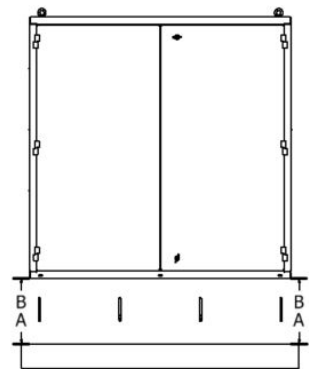
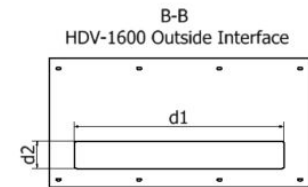


Fig. 2

Fig. 3

HDV-1600

HDVB-1600 & HDVP-1600



Key Interfaces:

Dimensions in (mm):

- d1 - 1283
- d2 - 165
- d3 - Minimum = 100
- d4 - 150
- d5 - 680
- d6 - $493(=d8/3)$
- d7 - Maximum = 1118
- d8 - 1480
- d9 - 1557
- d10 - 754
- d11 - 1514

Dimensions d9, d10, and d11 are the maximum internal available space.

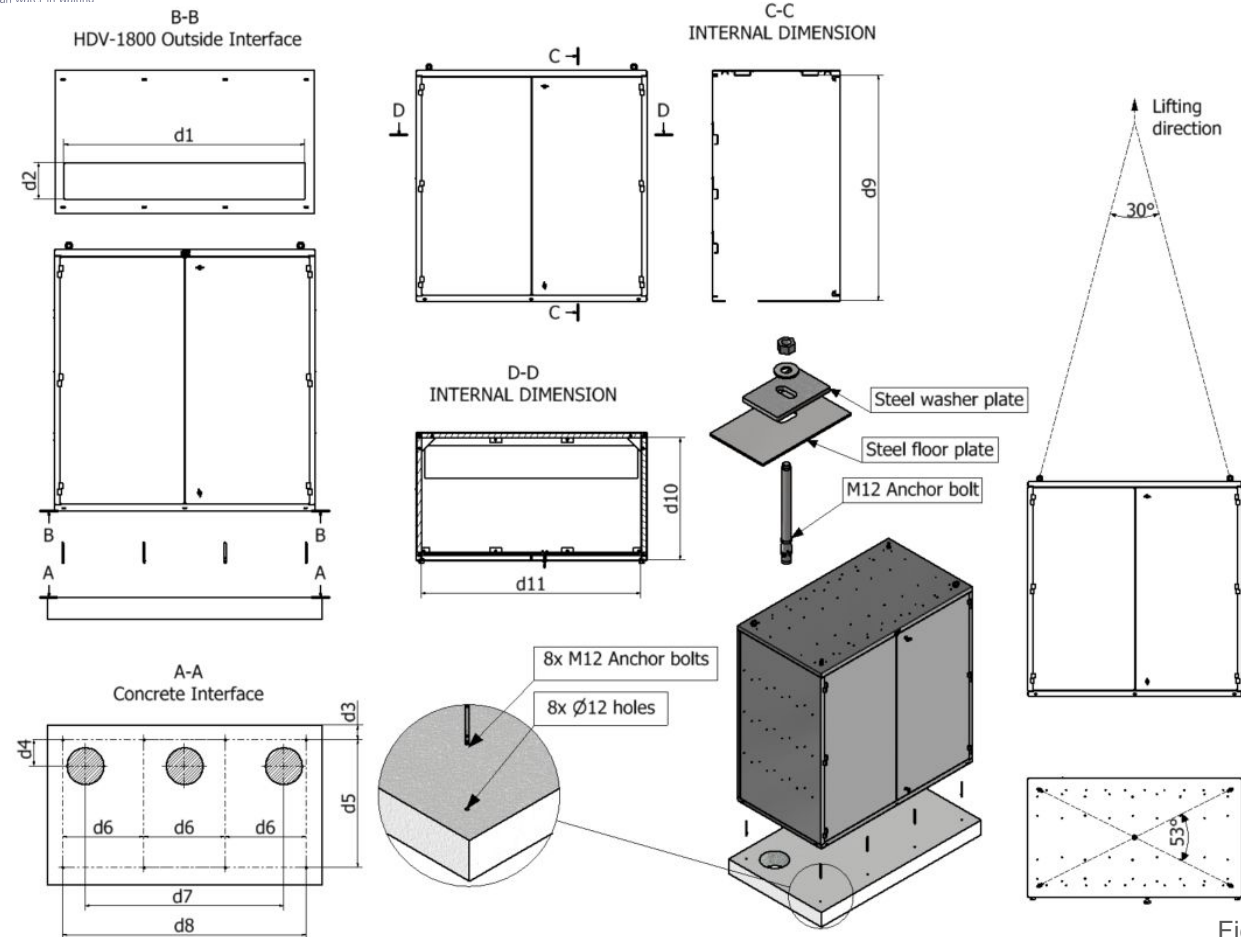
Installation Notes

- Install using 8x M12 anchor bolts.
- The lifting eye bolts shall be installed symmetrically about the lifting centreline (see Fig. 3).

Fig. 4

HDV-1800

HDVB-1800 & HDVP-1800



Key Interfaces:

Dimensions in (mm):

- d1 - 1665
- d2 - 255
- d3 - Minimum = 100
- d4 - 180
- d5 - 880
- d6 - 560(=d8/3)
- d7 - Maximum = 1370
- d8 - 1680
- d9 - 1757
- d10 - 954
- d11 - 1714

Dimensions d9, d10, and d11 are the maximum internal available space.

Installation Notes

- Install using 8x M12 anchor bolts.
- The lifting eye bolts shall be installed symmetrically about the lifting centreline (see Fig. 3).

Fig. 5

Technical Data Sheet

The Heavy Duty Vault Basic (HDVB) and the Heavy Duty Vault Premium (HDVP) feature the same outside dimensions, as shown in the Fig.6 below. The weights vary slightly. This is because the HDVP has an extra fold on the left-wall panel, right-wall panel, roofing panel, and floor panel. This additional fold retains the self-clamping EPDM profile.

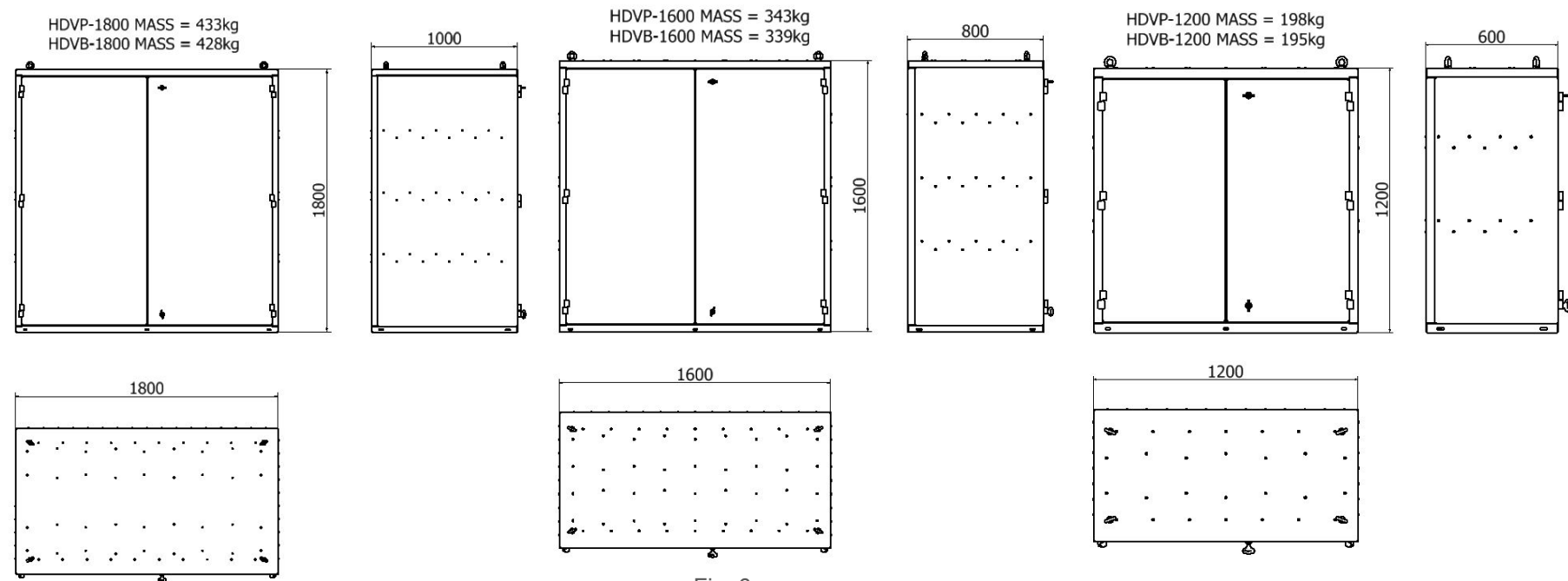


Fig. 6

Maintenance

The enclosure is designed to require minimal maintenance after installation.

However, these simple steps will ensure the enclosure reaches its maximum service life between overhauls.

- First and foremost, repair all scratches to the galvanized surfaces caused during lifting and onsite installation with a zinc paint, for the basic enclosure, and follow this with powder coating repair paint in case of the premium enclosure.
- Regularly remove the water that has accumulated on the inside, water that has not managed to get out on its own.
- Clean the inside of the enclosure of any water that has entered the enclosure during installation of the internal equipment.
- Ensure that all internal pipework, valves, and fittings are properly installed and tightened to prevent leaks into the enclosure. Any leaks should be repaired immediately.