

Approval certificate

Trade waste pre-treatment product



Applicant: Allflow Industrial
Postal address: Unit 3 / 30 Walters Drive, Osborne Park WA 6017
Manufacturer: Everything Water Australia Pty Ltd (Domino VGS)
Address: 9 Unley Street, Brendale QLD 4500

Attention: Peter Cruttwell
Web: www.allflow.com.au
Email: sales@allflow.com.au
Industrial Separation Systems (ISS VGS)
U 4/181 Taren Point Rd, Taren Point NSW 2211

Product/device description

Allflow Industrial provides two makes of vertical gravity separators, the **ISS** and **Domino** Vertical Gravity Separators (VGS).

The ISS VGS has been developed to remove free oil, grease and suspended solids from wastewater. The ISS VGS is a flooded system in which the inlet and outlet columns form a U-tube configuration such that the oil is trapped on one side of the main body, while the cleaned water flows out of the other side. The main body contains a continuous truncated conical spiral pack (SPAK) which is made of olephilic material. The main body and the rotating lid of the ISS VGS are manufactured from high density polyethylene.

The DOMINO VGS provides on-site pre-treatment of hydrocarbon wastewater. The Domino VGS is an oil water separator developed to remove free oil, grease and suspended solids from wastewater. The Domino VGS operates by control of both fluid velocity and pressure to allow effective separation of non-emulsified oil impurities and low density material to rise to the top of the vessel from water containing any high density contaminants. High density contaminants fall into a sludge retaining area at the bottom of the vessel.

These products must not be used for the separation of fat, oil and grease (FOG) generated by food industries.

The acceptance certificate applies to the pre-treatment devices of the following sizes:

Approval Number	Make	Model	Material			Max Flow Rate	Pump Type
			Tank ^{2,3}	Lid ^{2,3}	SPAK ¹		
AN-021-01	ISS	V10P0F/P1	HDPE	HDPE	HDPE	700	Mono CP11RJ (1450 rpm)
AN-021-02	ISS	V10P0F/D1	HDPE	HDPE	HDPE	1,000	ASM DS25 (30 spm)
AN-021-03	ISS	V15P3F/P1	HDPE	HDPE	HDPE	1,600	Mono CP25RJ (1450 rpm)
AN-021-04	ISS	V15P0F/D1	HDPE	HDPE	HDPE	1,500	ASM DS25 (42 spm)
AN-021-05	ISS	V15P3F/D1	HDPE	HDPE	HDPE	1,500	ASM DS25 (42 spm)
AN-021-06	ISS	V20P3F/D1	HDPE	HDPE	HDPE	2,000	ASM DS32 (48 spm)
AN-021-07	ISS	V30P3F/P1	HDPE	HDPE	HDPE	2,700	Mono CP800RJ (960 rpm)
AN-021-08	ISS	V30P3F/D1	HDPE	HDPE	HDPE	3,000	ASM DS38 (36 spm)
AN-021-09	Domino	DV700 SYS	SS	SS	HDPE	700	Mono CP11RJ (1450 rpm)
AN-021-10	Domino	DV1500 SYS	SS	SS	HDPE	1,500	Mono CP25RJ (1450 rpm)
AN-021-11	Domino	DV1500NG SYS	SS	SS	HDPE	1,500	Mono CP25RJ (1450 rpm)
AN-021-12	Domino	DV3000NG SYS	SS	SS	HDPE	2,700	Mono CP800RJ (960 rpm)

1 – SPAK: Spiral pack 2 – HDPE: High density polyethylene 3 – SS: Stainless steel

Special conditions of approval

1. The product shall be *supplied* with manufacturer's installation instructions and recommended procedures for operation and maintenance.
2. The product shall be *installed* strictly in accordance with the manufacturer's written instructions and the *Plumbing Standards*, with particular emphasis on the following:
 - a. Oil water separators must be installed in a bunded area and connected back to the pump pit.
 - b. A Trade Waste Sampling Point (TWSP) must be installed according to the Corporation's typical drawings.
 - c. The outlet pipe must be plumbed via a tundish that is separate and upstream to the TWSP.
3. This approval certificate is not a stand-alone document and **must be read** in conjunction with Water Corporation's *Typical Drawings for Trade Waste – Vertical Gravity Separator (HX33-12-11)*.
4. A maintenance contract is to be in place to ensure the ongoing reliability of the product.
5. Water Corporation must be notified within fourteen (14) days upon installation of the product
6. The use of emulsifying agents upstream of the product must not occur. Such instructions must be noted on operating documentation.
7. The product chosen must be suitably sized to avoid surge conditions.

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Special conditions of approval (continued)

8. Clear access for the purposes of maintenance or servicing of the pre-treatment device must be maintained at all times.
9. This approval certificate is not an endorsement of the product by Water Corporation, and no claim shall be made in advertising, promotion or other manner to the effect.
10. Water Corporation accepts no responsibility for the effective operation, performance or efficiency of the product. This approval is not an engineering approval or structural endorsement.
11. The proponent of the approved product must formally seek a request for re-approval of the product no later than three (3) months before the assigned **Validity Period** has expired from the **Date Issued** of this approval certificate.
12. Water Corporation reserves the right to vary any requirements at any time. Any application of this condition normally occurs after consultation with the manufacturer, supplier and end business user connected to Water Corporation's sewer.
13. Water Corporation shall be notified in writing if the pre-treatment device is withdrawn from sale.
14. The proponent of the approved product accepts that the information provided in this document shall be made publically available.

General conditions of approval

Approval shall be **suspended** where any of the following conditions are not met:

1. If there is a breach of the Special Conditions.
2. The assigned **Validity Period** has expired from the **Date Issued** of this approval certificate.
3. The product shall be manufactured in accordance with Water Corporation's requirements at the time of approval.
4. The product shall be manufactured to comply according to the details noted in the referenced drawings below, in addition to any further details provided by the proponent when seeking this approval.
5. The product supplied for use in Water Corporation's area of operations shall comply with the requirements shown on this approval certificate. Sizes, classes, lengths or other product variables which are available with the product but which are not approved as listed on this approval certificate shall not be offered by the supplier for use in Water Corporation's area of operations.
6. All discharges to sewer associated with this product must not exceed Water Corporation's *Trade Waste Acceptance Criteria*.
7. Prior to any business (which is connected to Water Corporation's sewer) installing this product the business must apply to Water Corporation for a *Trade Waste Permit* for approval to discharge.
8. If this certificate has been issued to the manufacturer of this product then it is the responsibility of the manufacturer to ensure all current and future suppliers / vendors of this product are provided a copy of this approval certificate.

Approval shall be **reviewed** where any of the following conditions occur:

1. The product is manufactured with either different materials, methods of manufacture, location of manufacture, source of raw materials, component subcontractors or models to that at the time of approval.
2. The ownership of the primary manufacturer or any subcontractors is varied from that at time of approval.
3. The standards and/or specifications to which the product was required to comply with at the time of approval have been amended or revised.
4. The product has been found to sustain damage or provide unsatisfactory performance on occasions of number considered excessive by Water Corporation, when handled, stored, assembled or installed in accordance with the supplier's or manufacturer's written instructions.

Approved drawing(s):

As per available drawings in the following manuals:

- i Domino VGS 700 model: [Domino-VGS-Vertical-Gravity-Separator.pdf](#)
- ii Domino VGS-NG model: [Domino-VGS-NG-New-Generation-Separator.pdf](#)
- iii ISS VGS models: *ISS VGS Oil Water Separator Technical Manual* (version: OWS-Mono-JUL.05).

Authorising person:

Stephen Jerkovic (Team Leader – Investigations)

Date issued

19 January 2018

Validity period:

Five (5) years