

Approval Certificate

Trade waste pre-treatment product

Product/Device Description

Applicant: Baldwin Industrial Systems Pty Ltd

Postal address: PO Box 605, CARDIFF, NSW, 2285

Manufacturer: Baldwin Industrial Systems Pty Ltd

Address: 13 Ranton St, CARDIFF, NSW, 2285

Attention: Robert Crawford

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Baldwin Industrial Systems oil-water plate separators are designed to reduce oil contaminated water (typically found from equipment wash bays, workshops and vehicle wash down bays). The Baldwin separators are enhanced gravity separator units that incorporate vertical plate coalescing packs.

Units can be supplied in six standard models. All units utilise polypropylene corrugated separation plates and are designed to only operate with diaphragm pumps.

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

Approval Number	Model	Coalescing Medium ¹	Tank Material	Plate Packing Arrangement (mm)	Max Flow Rate	Pump Type	Inlet / Outlet Diameter (mm)
AN-051-01	MPV-12	PP ²	PE ³	(305x600x305) x 19 plates ^{5,6}	1,500 L/h	ASM DP25 25mm diaphragm pump	32 / 32
AN-051-02	MPV-6	PP ²	PE ³	(305x600x305) x 39 plates ^{6,7}	1,500 L/h	ASM DP25 25mm diaphragm pump	32 / 32
AN-051-03	BBSV-64/2/12	PP ²	304 SS ⁴	(610x600x305) x 39 plates ⁵	2,000 L/h	ASM D32 32mm diaphragm pump	40 / 50
AN-051-04	BBSV-64/4/12	PP ²	304 SS ⁴	[(610x600x305) x 39 plates ⁵] x 2 packs	4,000 L/h	ASM D38 40mm diaphragm pump	40 / 50
AN-051-05	BSV-96/6/12	PP ²	304 SS ⁴	[(305x600x305) x 19 plates ⁵] x 2 packs [(610x600x305) x 39 plates ⁵] x 2 packs	6,000 L/h	ASM D50 50mm diaphragm pump	65 / 80
AN-051-06	BSV-96/9/12	PP ²	304 SS ⁴	[(305x600x305) x 19 plates ⁵] x 3 packs [(610x600x305) x 39 plates ⁵] x 3 packs	10,000 L/h	ASM D76 80mm diaphragm pump	65 / 80

1: Plates are positioned vertically.

2: Custom filled oleophilic polypropylene

3: Polyethylene

4: Stainless steel

5: Plates assembled at 12mm spacing

6: Tapered single pack

7: Plates assembled at 6mm spacing

Special Conditions of Approval

- The product shall be *supplied* with manufacturer's installation instructions and recommended procedures for operation and maintenance. **Only diaphragm pumps are to be supplied.**
- The product shall be *installed* strictly in accordance with the manufacturer's written instructions and the *Plumbing Standards*, with particular emphasis on the following:
 - Oil water separators must be installed in a bunded area and connected back to the pump pit.
 - A Trade Waste Sampling Point (TWSP) must be installed according to the Corporation's typical drawings.
 - The outlet pipe must be plumbed via a tundish that is separate and upstream to the TWSP.
- A site specific *maintenance* schedule is to be in place for each installation to ensure the ongoing reliability of the product. This maintenance schedule must be supplied to Water Corporation at the time the *Trade Waste Permit* application is made by a customer to discharge industrial waste to sewer.
- Water Corporation must be notified within fourteen (14) days upon installation of the product
- The use of emulsifying agents upstream of the product must not occur. Such instructions must be noted on operating documentation.
- The product chosen must be suitably sized to avoid surge conditions.
- Clear access for the purposes of maintenance or servicing of the pre-treatment device must be maintained at all times.
- 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.
- Water Corporation accepts no responsibility for the effective operation, performance or efficiency of the product.
- 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.

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Special Conditions of Approval (continued)

11. 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.
12. Water Corporation shall be notified in writing if the pre-treatment device is withdrawn from sale.
13. 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. The assigned **Validity Period** has expired from the **Date Issued** of this approval certificate.
2. The product shall be manufactured in accordance with Water Corporation's requirements at the time of approval.
3. The product shall be manufactured to comply according to the details noted in **Installation, Operation and Maintenance Instructions – Coalescing Plate Separator** (version *WA Water Example IOM_1EA00DB.Docx*, dated 20 May 2014) in addition to any further details provided by the proponent when seeking this approval.
4. 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.
5. All discharges to sewer associated with this product must not exceed the Water Corporation's *Trade Waste Acceptance Criteria*.
6. Prior to any business (which is connected to Water Corporation's sewer) installing this product the business must apply to the Water Corporation for a *Trade Waste Permit* for approval to discharge.
7. 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):

- MP – SEPARATORS (Rev 2) for models MPV-12 and MPV-6
- BBSV-02 (Rev 0) – for models BBSV-64/2/12 and BBSV-64/4/12
- BSV-96-9-01 (Rev A) – for models BSV-96/6/12 and BSV-96/9/12

Authorising person:

Steve Jerkovic (Supervisor Investigations)

Date issued

08 July 2016

Validity period:

Five (5) years