KADANT
AN ACCENT ON INNOVATION

# VA Strainers

## Vacuum Assisted Strainers

### Applications

*The VA Strainer will separate fiber from white water streams with up to 1% solids, and can be equipped with screens from 44 – 300 micron. The unit is versatile and can be used as a shower water filter, a fiber scalper, or a thickener producing fiber with 3 – 5% consistency.*

### Features

- *Corrosion resistant FRP tank with 316L shower assembly*
- *Low maintenance mechanical operation*
- *Continuous filter media showering*
- *Energy consumption less than 0.01 HP/GPM*

### Benefits

- *Reduces mill fresh water intake*
- *Recovery of high cost fibers from water streams*
- *Reduced flow of wastewater treatment*
- *Fast return on investment*


The VA (Vacuum Assisted) Strainer offers a simple, effective way for paper mills to recycle process water streams. With construction similar to the Kadant 4000 series Gravity Strainer, the VA Strainer offers higher levels of performance in three key areas: 1) solids retention, 2) throughput, and 3) higher solids capabilities. Proper screen selection and vacuum assisted dewatering provide maximum process protection and produce optimum results for polishing, scalping, and thickening applications. Using a low-horsepower, low-head vacuum exhauster, the VA Strainer is capable of handling 1% feed consistency and lower freeness material than gravity strainers. The low-vacuum draw also enhances the use of finer filtration media for applications previously unachievable by gravity strainers.

**Paper mill applications**
- Fiber thickener (3–5%)
- Cylinder mould effluent
- Clarifier effluent
- Filtration to 325 mesh (44 micron)
- Rich whitewater and wire pit water reuse

**Pulp mill applications**
- Fiber reclaim
- Washer effluent
- Screening cleaner rejects

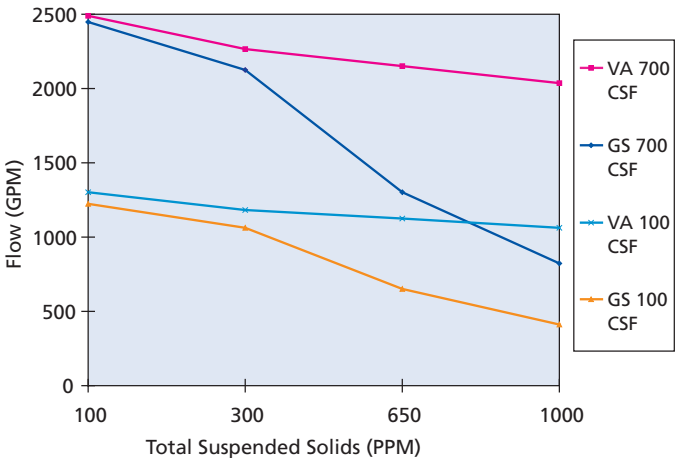
**De-inking mill applications**
- Washing effluent
- Clarifier influent

# VA STRAINERS

| VA Strainer Specifications | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VA Strainer Model | Flow Capacity Range | | Nominal Diameter | | Nominal Height | | Inlet/Reject Connection | | Accept Connection | | Gross Weight Dry – Wet | | Shower Flows at 120 psi | |
| | GPM | LPM | inch | cm | inch | cm | inch | cm | inch | cm | Lbs. | Kg. | GPM | LPM |
| VA 05 | 100-525 | 375-2000 | 61 | 155 | 66 | 168 | 6 | 15 | 10 | 25 | 725-2875 | 330-1300 | 124 | 469 |
| VA 15 | 175-850 | 665-3200 | 73 | 185 | 72 | 183 | 8 | 20 | 12 | 30 | 875-5150 | 400-2335 | 166 | 628 |
| VA 25 | 250-1250 | 950-4750 | 85 | 216 | 78 | 198 | 10 | 25 | 14 | 36 | 1225-10750 | 555-4875 | 221 | 837 |
| VA 35 | 350-1750 | 1325-6600 | 97 | 246 | 89 | 226 | 12 | 30 | 16 | 40 | 1800-18050 | 815-8185 | 276 | 1045 |
| VA 45 | 550-2600 | 2075-9850 | 115 | 292 | 97 | 247 | 14 | 36 | 18 | 46 | 3000-29400 | 1360-13335 | 359 | 1359 |

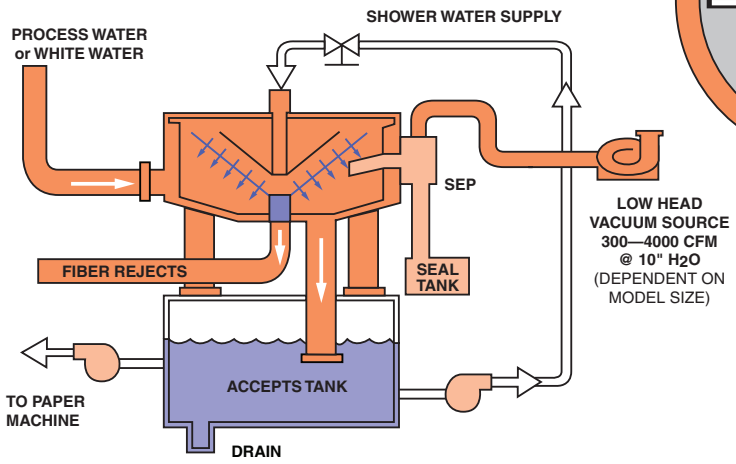
## VA Vs. Standard Gravity Strainer

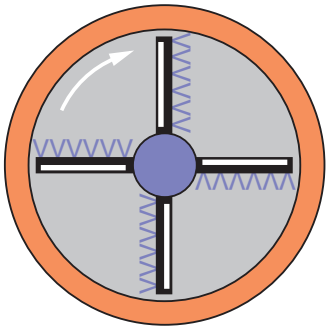
**10 Ft Diameter Units Equipped With 150 Mesh Media**




| | Gravity Strainer | VA Strainer |
|---|---|---|
| Maximum Solids Loading | 1,000 ppm (0.1%) | 10,000 ppm (1.0%) |
| Particle Size Removed | 75 – 230 micron (200 – 60 mesh) | 41 – 150 micron (325 – 100 mesh) |
| Filter Area – 10 ft. Diameter Unit | 48.5 sq. ft. filter media | 78.2 sq. ft. filter media |
| Number of Shower Arms | 3 | 4 |
| Reject Consistency | 1 – 2% | 2 – 5% |

**Typical VA Strainer System**



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**Contact us:**


KADANT AES DIVISION
436 Quaker Road
Queensbury, NY 12804 USA

Tel: +1-518-793-8801
Fax: +1-518-793-9392



VA Strainer-1001 11/2008
Replaces: VA Strainer-1000