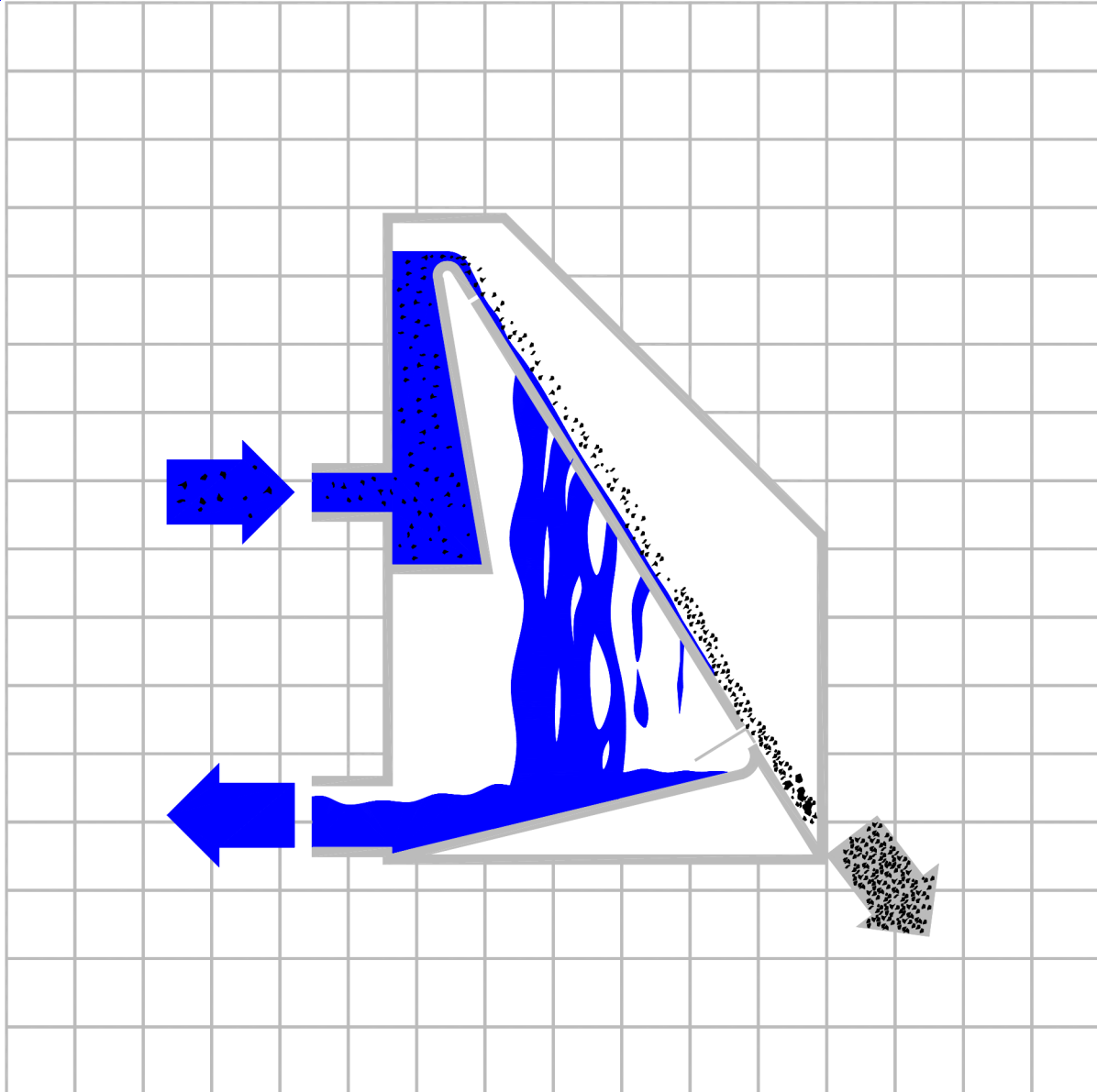




# Gravity Flow Systems Southwest, Inc.

**GFS HAS THE ANSWER**



**GFS Wedgewater™  
Sieve**

**The Superior  
Liquid / Solid  
Separator**

# The Wedgewater™ Sieve

## Reliable, Cost-Effective Sieve Systems for High Flow, Wet Screening and Classifying

---

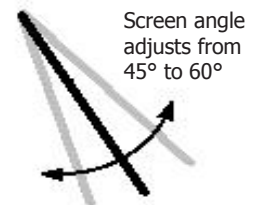
### ***AN ADVANCED, ENERGY-EFFICIENT LIQUID/SOLID SEPARATOR,***

**the Wedgewater™ Sieve takes maximum advantage of the basic principles of physics to reliably screen and classify. This well-documented technology has been proven effective in meeting the demands of municipal and industrial processing and treatment.**



***The Wedgewater™ Sieve is powered by the force of gravity.*** No power is necessary to operate the unit. The Wedgewater™ Sieve is self cleaning, and it is unaffected by variations in influent. The adjustable screen angle allows sieve capacity to be reset to meet variations in flow. Control of moisture content in the separated solids is also accomplished through changes in sieve screen angle. The screen is reversible in the direction of flow, effectively doubling its useful lifespan. Screen slot openings are available in a range from 0.005" to 0.125".

***LOW INITIAL COST*** The Wedgewater™ Sieve takes maximum advantage of the laws of physics. It is therefore a simple, inexpensive device which employs no motor or moving parts. Installation is quick and compatible with either Flanged or Coupling pipe connections.



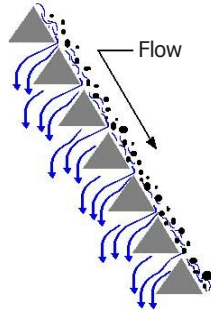
***LOW OPERATING COST*** The Wedgewater™ Sieve itself consumes no power . . . Separating is accomplished by taking advantage of the force of gravity, the laws of motion, Shear and Coanda effects. Wedgewater™ Sieve units can be fed totally by gravity or by pumps. Since there are no moving parts, maintenance costs are negligible. The special, non-clogging, reversible screen provides extended operating life.

***NEAR-PERFECT RELIABILITY*** No moving parts means no possibility of mechanical failure. The adjustable screen angle, viewing/sampling port and optional access door allow fine tuning of the system to maximize efficiency. The puncture-proof, self-sharpening screens stand up to the most demanding applications.

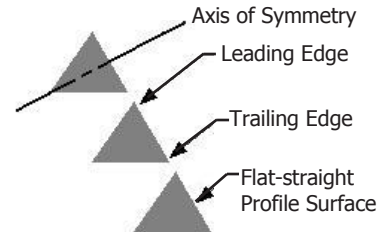
***SAVES SPACE*** Advanced design consumes no power and produces no by-products or emissions. Operation is virtually noiseless, so there is no on-site hearing loss or off-site complaints. The system can easily adapt to variations in flow rate, solids loading, particle size, and solids moisture content requirements.

## IMPROVED OPERATING ENVIRONMENT

Advanced design consumes no power and produces no by-products or emissions. Operation is virtually noiseless, so there is no on-site hearing loss or off-site complaints. The system can easily adapt to variations in flow rate, solids loading, particle size, and solids moisture content requirements.



## Typical Shear and Coanda Effects



## MUNICIPAL

**The system improves overall efficiency and capacity, while eliminating the need for high-cost primary clarifiers, comminutors, and other equipment. It also reduces loading and maintenance on pumps, pipes, clarifiers, valves and digesters.**

The Wedgewater™ Sieve removes up to 90% of all floatables, 35% of suspended solids including non-biodegradable particulate matter, and can reduce BOD levels by up to 35%. Its screening action causes aeration, thereby increasing dissolved oxygen (DO) levels by 2 mg/liter or more. This aeration produces grease separation in the effluent receiving chamber and preconditions the effluent for aerobic biological treatment.

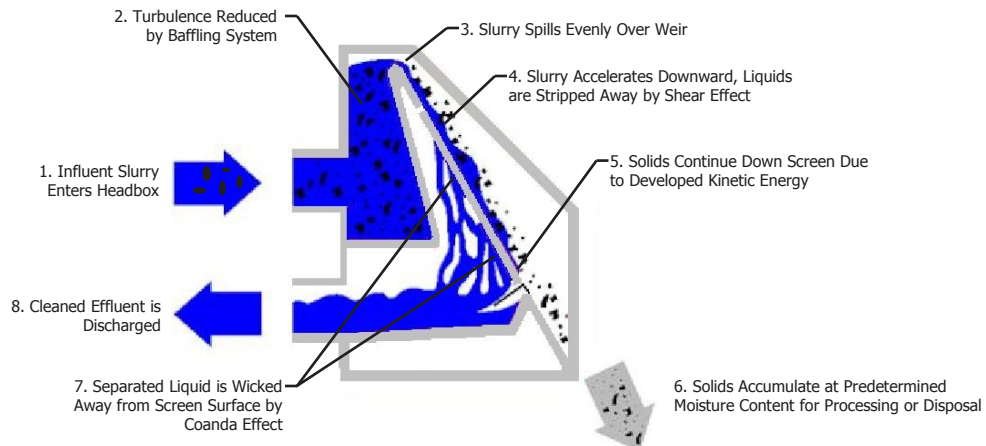
Primary Treatment for:

***Rotating Biological Contactors • Trickling Filter Systems • Activated Sludge Systems  
Extended Aeration Systems • Physical Chemical Systems • Others***

## INDUSTRIAL

The Wedgewater™ Sieve can recover usable products that might otherwise be discharged into sewer lines. It reduces solids and BOD levels from plant effluents, thereby minimizing surcharges sometimes imposed by municipalities for discharge into sewer lines. It also reduces solids and BOD levels and improves effluent quality for ocean outfall.

The system removes solids from process water for recycling as pump-sealing water, spray water, or for other uses. It reduces loading and maintenance on pumps, valves, lagoons, digesters and clarifiers. The Wedgewater™ Sieve replaces high-cost, high-maintenance equipment such as vibrating and rotary drum screens, thereby reducing power consumption and up-keep man-hours.



## MUNICIPAL

Application	Screen Openings		Wedgewater™ Sieve Model				
	IN.	MM.	W200	W300	W400	W500	W600
Sanitary Sewage / Storm Water Treatment	0.060	1.5	Capacity in Gallons per Minute (GPM)*				
			230	350	460	575	695
			Capacity in Million Gallons per Day (MGD)*				
			0.35	0.5	0.67	0.87	1.0

## INDUSTRIAL

Application	Screen Openings		Wedgewater™ Sieve Model				
	IN.	MM.	W200	W300	W400	W500	W600
<b>Fruit/Vegetable</b>							
Primary Screening	0.040	1.0	235	350	465	580	700
Total Waste Flow	0.020	0.5	165	250	330	415	500
<b>Meat Packing</b>							
Catch Basin Sludge	0.040	1.0	100	150	200	250	300
Paunch Recovery	0.040	1.0	165	250	330	415	500
Stock Water	0.020	0.5	115	175	230	290	350
Wash Down	0.040	1.0	315	475	630	790	950
Scald Tank Recycle	0.020	0.5	150	225	300	375	450
Total Waste Flow	0.040	1.0	235	350	465	580	700
<b>Poultry Processing</b>							
Feather/Offal Recovery	0.060	1.5	150	225	300	375	450
Total Waste Flow	0.040	1.0	165	250	330	415	500
<b>Pulp/Paper</b>							
Kraft Pulp Mill Effluent	0.020	0.5	195	290	400	375	600
Groundwood Screens 1.0%	0.040	1.0	165	250	330	415	500
<b>Others</b>							
Dairy	0.040	1.0	150	225	300	375	450
Canning	0.060	1.5	215	325	430	540	650
Tanning	0.020	0.5	100	150	200	250	300
Textile	0.030	0.75	150	225	300	375	450

\*This chart illustrates operating results and capabilities from typical municipal and industrial installations employing Wedgewater™ Sieves, or from pilot plant demonstrations. The capabilities listed from each type of sludge are for *general information purposes only*. Because variation in concentration and capacities

may be experienced due to the individual nature of a particular applications, contact Gravity Flow Systems Southwest for specific design data. Gravity Flow Systems Southwest, Inc. accepts no responsibility for any operational or design data not submitted in writing directly from Gravity Flow Systems Southwest, Inc.



## Gravity Flow Systems Southwest, Inc.

Dripping Springs, Texas 78620  
Tel: (830) 379-5730  
Email - [info@gravityflow.com](mailto:info@gravityflow.com)  
[www.gravityflow.com](http://www.gravityflow.com)

*Locally represented by:*