

SIEVE BEND ASSEMBLY

Johnson Screens® Sieve Bend Assembly's are engineered to ensure that your operation achieves the best process and maintenance outcomes.



SEPARATION

It is often generalised that the size of the largest particle passing through the apertures of the sieve bend is approximately half the width of the openings. Tests and field studies have shown that separation produced at apertures below 0.5 mm are somewhat finer than half the aperture width, whereas with apertures wider than 0.5 mm, separations coarser than half the slot widths are produced.

What sets Aqseptence Group apart from other sieve bend manufacturers is that our team has the technical skills and practical experience to select the optimum Vee-Wire® and slot combination for the desired separation.

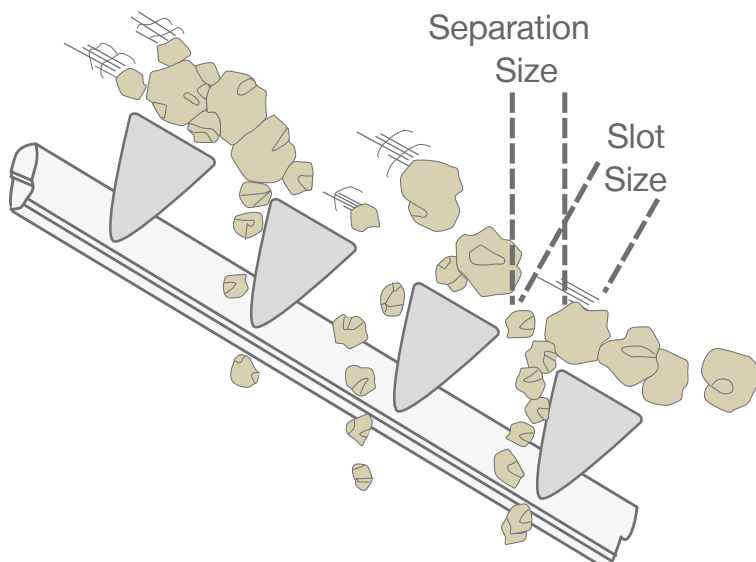
APPLICATIONS

The applications for sieve bend assembly's are wide ranging. They are used where dewatering of products is required i.e. separation of liquids from solids. There are applications in poultry, vegetable wash water recovery, cheese production, dairy, along with many more.

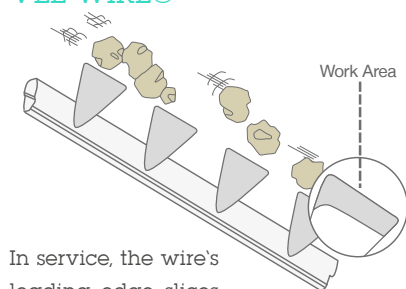
EFFICIENCY

Due to the fact that separation occurs at approximately half of the aperture width the possibility of oversize particles reporting to underflow is extremely remote. This means a new sieve bend assembly operates at a very high efficiency, often as high as 95%.

While the efficiency level of a sieve bend assembly is high, the proportion of particles in the feed which are nearly the same size as the separation desired must be taken into consideration, as a high proportion of near size particles significantly reduces the efficiency of a sieve bend.



VEE-WIRE®



In service, the wire's leading edge slices away part of the flow.

Sharp Vee-Wire® (profile wire) positioned perpendicular to the slurry flow enables static sieves to provide excellent dewatering.

Each stainless steel Vee-Wire® slices away a part of the flow, contributing to the overall capacity.

ADVANTAGES OF JOHNSON SCREENS®

- Ground breaking resistance welding technology providing precise and consistent aperture and stronger welds.
- customised profile shaping available - in-house.
- Only high quality materials.
- Design and manufacture of complete sieve bend assemblies.
- On-site consultation visit by Aqseptence Group representative.

SPECIFICATIONS

Slot Size (mm)	Sieve Bend Assembly Models - Volumetric Capacity l/min								
	500			900			1200		
	63	93	118	63	93	118	63	93	118
0.50	1000	875	705	1800	1575	1270	2400	2100	1700
0.75	1250	1125	915	2250	2025	1645	2995	2695	2200
0.87	1500	1415	1045	2695	2545	1875	3595	3395	2500
1.00	1705	1415	1165	3075	2545	2100	4095	3395	2795
1.25	1830	1580	1375	3295	2845	2475	4395	3795	3295
1.50	2000	1705	1500	3595	3075	2695	4795	4095	3595
2.00	2250	1955	1705	4045	3520	3070	5395	4695	4095
2.50	2500	2160	1915	4495	3895	3445	5995	5195	4595

Slot Size (mm)	Sieve Bend Assembly Models - Volumetric Capacity l/min					
	1500			1800		
	63	93	118	63	93	118
0.50	2995	2620	2120	3595	3140	2545
0.75	3745	3370	2745	4495	4045	3295
0.87	4495	4245	3120	5395	5095	3745
1.00	5125	4245	3495	6145	5095	4195
1.25	5495	4745	4120	6595	5695	4945
1.50	5995	5120	4495	7195	6145	5395
2.00	6745	5870	5120	8095	7045	6145
2.50	7495	6495	5745	8995	7795	6895

The data contained in this document is for informational purposes only and values are typical. Please contact Aqseptence Group for confirmation.