



# Performance Screening

## Innovative Solids Control Solutions

Harsh chemicals and severe heat present in drilling fluids make a perfect laboratory to test the durability and performance of any shale shaker screen. Constructed to exacting specifications, Cagle Oilfield Services, Inc. can provide flat panel style replacement screens to fit the following brands of shale shakers: **NOV Brandt • Fluid Systems • National Oilwell Varco • Derrick • M-I Swaco • and Others**

### Standard Flow

Standard flow screens are available in Ultrafine (square mesh multi-layer), tensile bolting cloth, and market grade mesh styles. Screen panel sizes range from 2-400 mesh. Contact us for product details.

### Cagle PowerFlow

The Cagle PF screen provides larger length to width ratios, or simply put bigger oblong openings and longer life than square mesh opening panels. Higher conductance and finer solids separation result. Durable construction methods ensure a quality product. Hookstrip style screens are available with plastic backing for mud temperatures below 150°F, or metal backing. Pretensioned screen panels are available in metal backing styles only.

### Cagle HCR® MagnaFlow

The HCR® is a patented rectangular mesh weave developed by Cagle Oilfield Services, Inc. It has a much greater opening length to width ratio than any other rectangular meshes on the market. HCR® mesh features multiple oppositely-woven warp wires which maintain the integrity of the rectangular opening. Prior to its development, standard industry screens were either short-lived with acceptable solids separation; or, the field had the choice of long life and inferior solids separation. The HCR® MagnaFlow results in both superior solids separation and long life. Developed to handle today's demanding field conditions, the HCR® MagnaFlow is the result of over forty years experience in the oil field.

### Technical Information

PowerFlow Designation	HCR MagnaFlow Designation	D50 Cutpoint <sup>1,2</sup> (Microns)		Conductance (kd/mm)	
		PowerFlow	HCR MagnaFlow	PowerFlow	HCR MagnaFlow
84	85	185	183	3.99	6.02
110	100	155	141	3.68	5.58
140	150	118	105	2.80	4.19
175	170	96	88	2.31	3.53
210	200	86	78	2.34	2.87
250	250	75	61	1.88	2.32
	325		43		1.40

<sup>1,2</sup> Notes: Cut points for rounded particles; will be higher for flaky or rod-shaped particles. D50 cut points were measured or estimated from actual sieve tests in the lab, shop, and field according to API RP 13E.



### The HCR® MagnaFlow Advantages

- Finer particle separations than triple-layer screens
- Approximately twice the conductance & greater flow capacity
- Longer screen life which results in cost savings



### PowerFlow Screen