HOUSTON OILFIELD EQUIPMENT, INC.

External Cage & Sleeve Design Performance

The Houston Oilfield Equipment external cage & sleeve trim features a ported seat cage and external sleeve which slides over the seat cage. It is designed to contain the turbulence of the flow media by centralizing & directing it into the bore and thus protecting the choke outlet from excessive wear. There is a series of ports within the seat cage which permit entry of the flow stream to pass thru and into its interior as it travels and exits at the outlet end of the choke body. The fluids coming into the cylindrical cage are now approaching from all sides and this results in the dissipation of that energy which is produced by the colliding flow streams. This condition is known as “flow impingement” and the cage trim design performs well by its redirecting of the high velocity erosive flows that can often yield severe damage to choke trims.

The external sleeve provides for flow control as it moves up or down in a linear motion to slide over the seat cage by either blocking or exposing the ports to regulate the flow. The external sleeve may be operated by means of a manual handwheel or by use of an actuator attached to the choke assembly for remote operation.

Th most common trim material for the external sleeve features a tungsten carbide insert, while the seat cage, being solid tungsten carbide on its ported upper portion. This has proven well in standing up to high pressure drops and fluids

which may contain solids such as formation sands. There are optional materials available.

Make this your next choice when selecting a choke trim design to tackle erosive conditions. External Cage & Sleeve trim is available in both 1” & 2” max orifice HH2 adjustable chokes.