

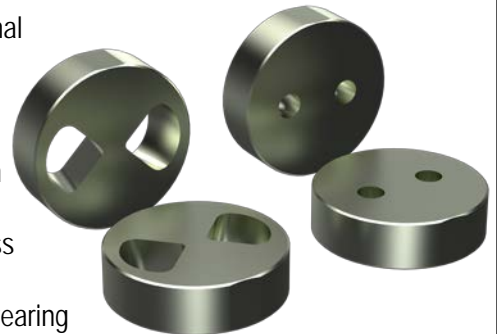
Plug & Cage (A Series)

- Used for high capacity/medium pressure drop applications, good controllability.
- Ideal for oil production and water injection services.
- Features a tungsten carbide cage as the throttling mechanism with a protective steel carrier around it.
- Outer Steel carrier for protection against impacts from debris in the production fluid.
- The trim characteristic is equal percentage that provides superior flow control, however, provide the linear trim as well on demand.
- Plug & Cage style design is pressure balanced to minimize the stem loads.
- Plug is fully guided at the ID and is rigidly attached to the stem to resist any induced vibration damage.
- The flow is directed inward and impinges on itself in the center of the flow cage which in turn isolates the body bore from incoming turbulent flow hence eliminating the body wear.



Multiple Orifice Valve / Disc Style (EA / IC / EC / ICS Series)

- Quick open & close, 90deg rotation, good capacity, available inline or angle body
- Provides accurate calibrated flow control, and increased choke service life in all applications.
- Aides in the control of cavitation, erosion, and freezing, even in high-pressure-drop and severe service conditions.
- Multiple trim sizes for increased flow volume while reducing nominal body size, reducing end user cost.
- Trim design resists freezing in CO2 service.
- It has positive shutoff.
- Enhanced durability and wear resistance by use of solid Tungsten Carbide trim.
- Minimal wear components that are easily replaced, resulting in less downtime, and reduced operational costs.
- Another benefit, adding to its service life: a second set of orifice wearing edges are available by rotating the discs in the opposite direction.



External Sleeve (AD Series)

- Similar features to the plug & cage however has a reduced capacity.
- Used in low capacity/high pressure drop applications with erosive service.
- The externally guided flow sleeve controls the opening and rate of flow.
- Our trim has been designed specifically for severe erosive service in combination with the high pressure drops and high sand concentrations
- The flow is directed upward away from the outlet, impinges on itself in the center of the flow cage which in turn isolates the body bore from incoming turbulent flow hence eliminating the body wear.
- The seating is achieved through an isolated sealing element contact on a seat outside the flow cage. Keeping the seat surface away from the high velocity flow protects the seat from throttling wear and the seat integrity is maintained.

