

A slurry distributor includes a feed conduit and a distribution conduit in fluid communication therewith. The feed conduit includes an entry segment with a feed inlet and a feed entry outlet in fluid communication therewith and extending along a first feed flow axis. The feed conduit includes a shaped duct having a bulb portion in fluid communication with the feed entry outlet. The feed conduit includes a transition segment in fluid communication with the bulb portion and extending along a second feed flow axis in non-parallel relationship with the first feed flow axis. The bulb portion has an area of expansion with a cross-sectional flow area that is greater than a cross-sectional flow area of an adjacent area upstream from the area of expansion. The shaped duct has a convex interior surface in confronting relationship with the feed entry outlet of the entry segment.