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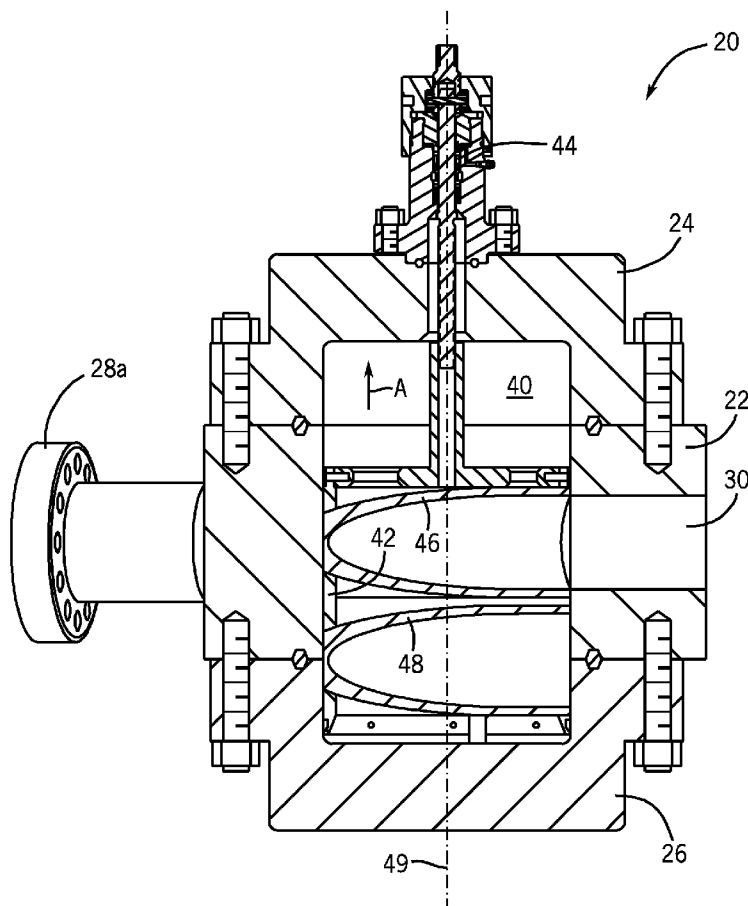
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(54) Title: DIVERTER VALVE



(57) Abstract: Provided is a diverter valve including a housing assembly having a plurality of ports and a drum assembly disposed in the housing. The drum assembly including a plurality of passages for selectively coupling the ports, wherein an axial position of the drum assembly with respect to the ports determines which ports are active and which parts are dormant. Further provided is a method of operating a diverter valve, including disposing a drum of the diverter valve in a first position, wherein the first position is configured to provide a first passage from an inlet of the diverter valve to a first outlet of the diverter valve, the first passage comprising a first bend-pipe extending crosswise to an axis of the drum and comprising a first radius of curvature that is at least five times an internal diameter of the first bend-pipe, and moving the drum along the longitudinal axis through the diverter valve to a second position, wherein the second position is configured to provide a second passage from the inlet of the diverter valve to a second outlet of the diverter valve, the second passage comprising a second bend-pipe extending crosswise to the axis of the drum and comprising a second radius of curvature that is at least five times an internal diameter of the second bend-pipe.



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