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(54) **Title:** VALVES WITH INTEGRATED ORIFICE RESTRICTIONS

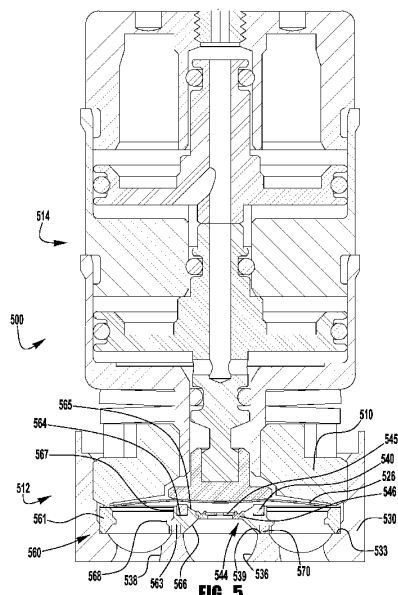


FIG. 5

(57) **Abstract:** A valve includes a valve body (530) having first (536) and second (538) fluid ports extending to a valve cavity, a seat carrier subassembly (560) installed in the valve cavity and including a seat carrier body (561) with a first annular inner wall (565) defining a first flow aperture (566) aligned with the first fluid port (536) and a valve seat (540) disposed in an annular recess (564) surrounding the first annular inner wall (565), and a second annular inner wall defining a second flow aperture (568) aligned with the second fluid port (538). A valve element (526) is disposed within the valve cavity (532) and is movable between a closed position sealing against the valve seat (540) and an open position permitting fluid flow across the valve seat (540) between the first (566) and second (568) flow apertures. An outer periphery of an orifice restriction (545) is seated against an interior portion of one of the first annular inner wall (565) and the second annular inner wall.

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