Elasto-Valve Rubber Products Highlights Duckbill Valve Utility in Backflow Prevention

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Elasto-Valve Rubber Products (EVR), a manufacturer of rubber duckbill check valves, is drawing attention to the expanding role of duckbill valve technology in backflow prevention across wastewater, stormwater, and industrial piping systems. The company offers a comprehensive line of duckbill check valves engineered to provide reliable one-way flow control without the use of mechanical moving parts.

EVR rubber duckbill check valves function as passive non-return valves that open under forward pressure and close when flow reverses. Because they contain no hinges, springs, or mechanical components, they eliminate many of the failure points associated with traditional flap gate and check valve designs. This simplicity translates directly into reduced maintenance requirements and lower long-term operating costs for municipalities and industrial operators managing complex fluid conveyance systems.

Gary Waldick, Vice President of EVR Products, noted the growing demand for passive backflow prevention solutions. "We are seeing increased interest from engineers and facility managers who want dependable flow control without the maintenance burden that comes with mechanical alternatives," Waldick said. "Duckbill valves offer that reliability in a straightforward, proven design."

The EVR product line includes multiple duckbill valve configurations designed to address different installation requirements. The Slip-On Series CPO is built for direct mounting onto pipe ends, while the Flanged Series CPF accommodates bolted flange connections for more permanent installations. The Jacket Series CPJ provides an additional layer of protection for demanding environments, and the In-Line Flanged Series CPI allows integration within existing pipeline runs without requiring end-of-pipe placement.

For applications involving space constraints, the company manufactures an In-Line Series CPI-IN specifically designed for internal pipe mounting. This configuration protects the valve body while still allowing solids, sludge, and slurries to pass through unhindered. The flexible rubber construction of each valve adapts to varying flow conditions and permits passage of debris that would obstruct rigid mechanical check valves.

Backflow prevention remains a critical concern in municipal wastewater and stormwater infrastructure. Reverse flow events can introduce contamination into clean water systems, damage pumping equipment, and create public health hazards. Traditional swing check valves and flap gates require periodic inspection and replacement of internal components, adding operational costs over the life of the installation. Duckbill valves address these concerns through a design that requires no external power sources and operates silently under normal flow conditions.

Waldick emphasized the practical advantages of the technology for long-term infrastructure planning. "When a municipality installs a duckbill valve, they are choosing a solution that does not require scheduled part replacements or lubrication," he said. "That translates into real savings over decades of service life, especially in remote or hard-to-access installations."

The EVR CPO Series checkvalves, available in sizes up to DN2000, are specifically engineered for large-diameter wastewater and stormwater applications. These valves serve dual functions as both backflow prevention devices and odor control barriers, sealing against reverse airflow that can carry unpleasant gases back through piping networks into populated areas. This capability makes them particularly relevant for outfall structures, combined sewer systems, and tidal discharge points.

Elasto-Valve Rubber Products duckbill valve technology continues to gain recognition among civil and environmental engineers seeking low-maintenance alternatives to traditional mechanical check valves. The absence of moving parts means there are no components subject to fatigue, corrosion of metal hinges, or seizure from sediment accumulation. Each valve is constructed from durable rubber compounds selected to withstand the specific chemical and abrasive conditions of its intended application.

The company reports that its duckbill valves are currently deployed across a range of sectors including municipal wastewater treatment, industrial process water management, and stormwater conveyance.

Installations range from small-diameter residential backflow prevention to large-scale outfall protection on major infrastructure projects. The valves accommodate varying head pressures and flow velocities while maintaining consistent sealing performance in the closed position.

EVR Products manufactures its full line of rubber duckbill check valves for distribution to engineering firms, municipalities, and industrial operators. Technical specifications, sizing guides, and configuration details for each valve series are available through the company. For more information about duckbill valve applications and product selection, visit evrproducts.com.

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ISO 9001-certified manufacturer of custom rubber process piping solutions since 1984. Based in Sudbury, Ontario, EVR Products specializes in expansion joints, pinch valves, duckbill check valves, and more for global industries.

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