



EVR Products Showcases Benefits of Flexible Rubber Duct Connectors

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EVR Products provides a comprehensive line of flexible rubber duct connectors designed to absorb vibration, compensate for misalignment, and reduce noise transmission in industrial HVAC and air handling systems. The connectors serve a wide range of applications across commercial, institutional, and industrial facilities where ductwork integrity and environmental comfort are essential considerations.

Flexible rubber duct connectors function as critical transition components between rigid ductwork sections and mechanical equipment such as fans, blowers, and air handling units. By isolating vibration at the source, these connectors help prevent the transfer of mechanical energy through sheet metal ductwork, which can otherwise amplify sound and contribute to structural fatigue over time.

"Our rubber duct connectors address a fundamental challenge in HVAC system design," said Gary Waldick, Vice President of EVR Products. "When rotating equipment operates at high speeds, the vibration generated can travel significant distances through rigid ductwork. Our flexible connectors break that transmission path and give the system room to move without compromising the seal."

The product line includes connectors fabricated from multiple rubber compounds, each selected for specific performance characteristics. Neoprene compounds offer broad chemical resistance and durability across a wide temperature range, while EPDM formulations provide excellent resistance to ozone, weathering, and UV exposure. Silicone options accommodate elevated temperature applications where standard elastomers may degrade.

Thermal expansion and contraction represent ongoing challenges in ductwork systems, particularly in facilities with significant temperature differentials between startup and steady-state operation. Flexible rubber connectors accommodate this dimensional change without placing stress on duct joints, flanges, or connected equipment. This flexibility helps extend the service life of both the ductwork and the mechanical components it serves.

Elasto Valve Rubber (EVR) rubber connectors are manufactured to accommodate round, rectangular, and custom duct profiles, allowing integration into virtually any system configuration. Standard sizes align with common duct dimensions, while custom fabrication addresses non-standard geometries encountered in retrofit and specialty applications.

Installation efficiency is another practical consideration that drives specification of flexible connectors. The components attach directly to existing flanged ductwork using standard bolt patterns, reducing the need for specialized tools or extensive field modification. This straightforward installation process minimizes downtime during both new construction and equipment replacement projects.

"Facility managers often underestimate how much operational noise originates from ductwork vibration rather than the equipment itself," Waldick noted. "Installing flexible connectors at key transition points can produce a measurable reduction in ambient noise levels throughout a building, which has real implications for occupant comfort and regulatory compliance."

The pump connectors by EVR also play a role in seismic preparedness for facilities in regions subject to ground movement. By allowing controlled flexion between duct sections, the connectors help prevent the rigid failures that can occur when fixed ductwork is subjected to lateral forces. This resilience contributes to system survivability and faster return to operation following seismic events.

Material selection for each connector takes into account the specific media being conveyed through the duct system. Applications involving chemical fumes, high-moisture environments, or elevated particulate loads each present distinct material compatibility requirements. The engineering team at EVR Products works with specifying engineers to match compound properties to application demands.

Quality control processes throughout manufacturing ensure dimensional accuracy and material consistency

across production runs. Each connector undergoes inspection for proper cure, dimensional tolerance, and surface integrity before shipment. This attention to manufacturing standards supports reliable field performance and reduces the likelihood of premature failure or warranty claims.

The flexible rubber duct connector product line complements the broader range of rubber expansion joints, check valves, and pinch valves available through EVR Products. Together, these product categories address multiple points of vulnerability in piping and ductwork systems where flexibility, vibration isolation, and flow control are required.

Technical documentation, including dimensional drawings and material specification sheets, is available to engineers and contractors involved in system design and procurement. The EVR Products engineering team provides application support for projects requiring custom configurations or non-standard material selections.

For more information about flexible rubber duct connectors and related products, visit the EVR Products website.

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Elasto-Valve Rubber Products Inc.

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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