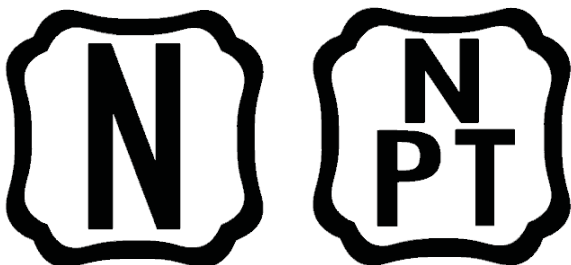
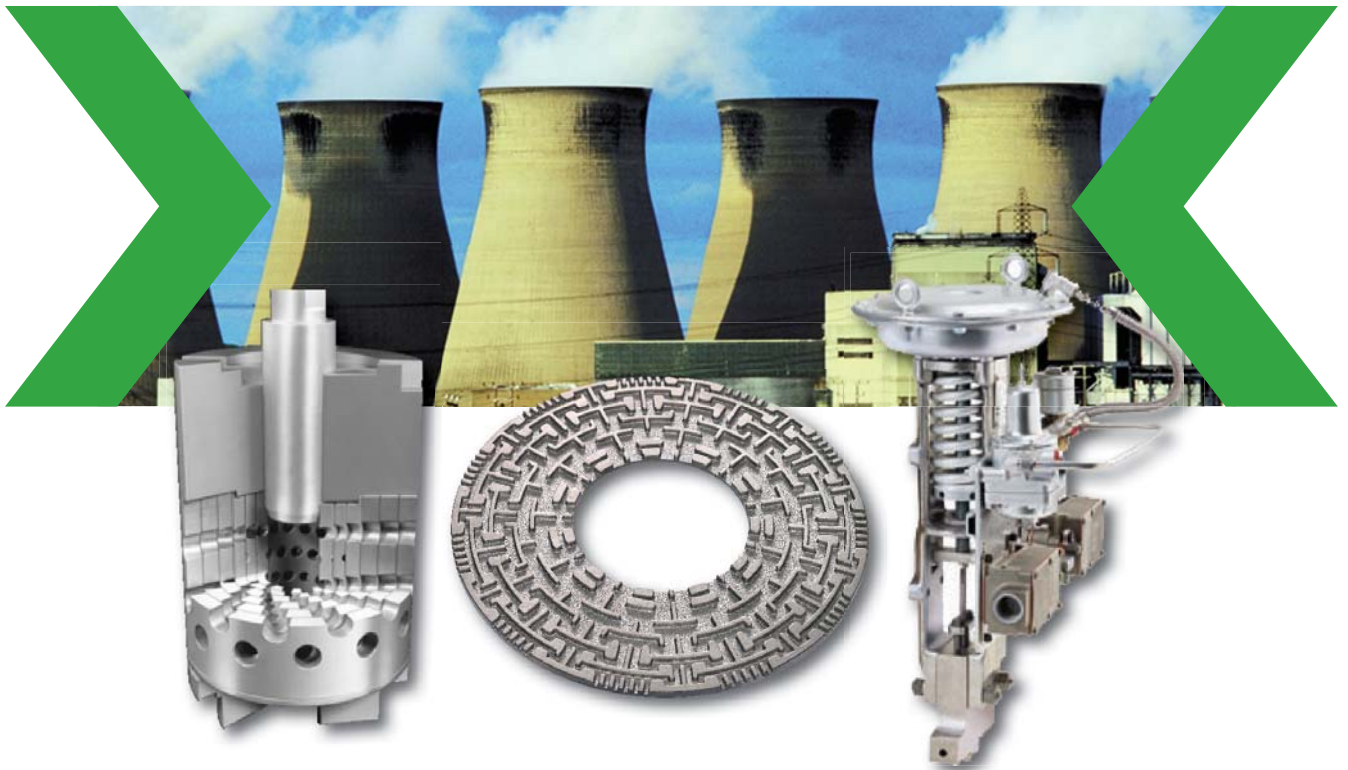




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Nuclear Valve Overview



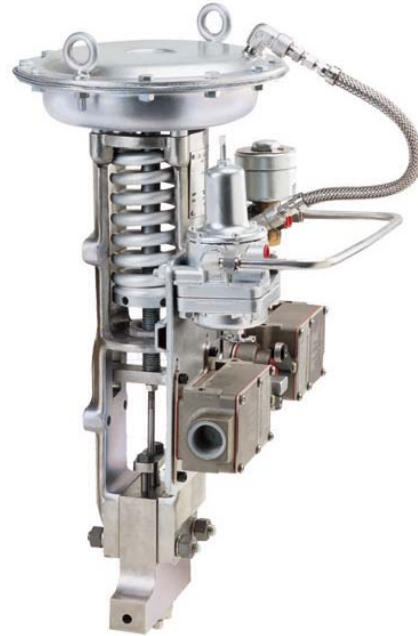
SPX[®]

Globe Valves



As a manufacturer who has supplied valves to their customers for over one hundred years, Copes Vulcan has developed a proven, comprehensive line of globe valves. Available for standard to severe duty valve applications, bodies configurations include angle, three way and straight through, and can be cast, or forged. Valves have been supplied in a variety of materials including, but not limited to, carbon, stainless steel, and chrome moly steels. The Copes-Vulcan control valves can be supplied with a variety of actuation options including pneumatic (diaphragm or piston), electric, or hydraulic, and may feature either digital or analog controls.

The Copes-Vulcan globe valve products include a specialized valve for sampling applications, custom designed for the nuclear industry. The sampling valve features a robust stainless steel body, with a diaphragm operator. It provides FCI 70-2 Class V shutoff, with excellent performance in high differential pressure applications. One of the key benefits of the Copes-Vulcan sampling valve is the ability to replace the plug and the seat in the field without removing the actuator.



Features

- 3/8 – 24 inch, Class 150 - 4500.
- Quick change trim with linear, equal percent, modified parabolic or custom flow characteristics.
- Large interior flow passageways in valve bodies allow for maximum pressure recovery.
- Diaphragm maintains a constant effective area throughout the full stroke.
- No other life limiting elastomeric seals or gaskets are used within the actuator.
- Field adjustment of the main spring set-point is a standard feature.
- Class IV, V, VI shutoff available.

Copes-Vulcan boasts one of the largest selections of control valve trims available in the nuclear market, with designs ranging from general service port throttling trim to Raven™, a stacked disc, velocity control trim.



High Performance Butterfly Valves

The proven performance of the Copes-Vulcan High Performance Butterfly Valve is the result of 30 years of experience with quarter turn designs. This has permitted Copes-Vulcan to develop a highly reliable valve with exceptional sealing capabilities.



Features

- 2 – 36 inch, Class 150 – 600.
- Torque or position seated
- Offset disc minimizes seat-to-disc interference reducing torque requirements.
- Independent flow testing to EPRI guidelines
- MOV sizing per EPRI NP-7501
- Bi-directional Class V and Class VI shutoff available

Nuclear Ball Valve

The Copes-Vulcan Nuclear Ball Valve line was developed in response to requests from our customers. They needed a “nuclear” valve – not an upgraded commercial design. The ball valve line has evolved to include two and three piece designs, and can be customized to fit within existing face-to-face dimensions for replacements of existing equipment. The Copes-Vulcan ball valve is robust and requires minimal maintenance.



Features

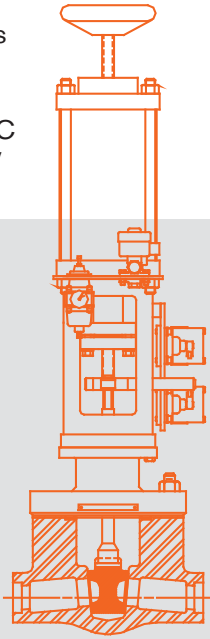
- 1 – 8 inch, Class 150/300
- Bi-directional Class V and Class VI shutoff available
- Pneumatic piston or manual operators
- Two and three piece designs

Gate Valve

The Copes-Vulcan nuclear gate valve was originally supplied to the industry in the 1970's. The design has continued to be enhanced to ensure compliance with NRC Generic Letter 89-10 and the EPRI MOV Performance Prediction Methodology.

Features

- 3 – 18 inch, Class 150 – 1500+
- Bolted bonnet and pressure seal configurations
- Addresses pressure locking and thermal binding
- Full port and Venturi port designs
- Compliant with EPRI PPM guidelines
- Flex wedge and parallel slide configurations



Check Valves

Copes-Vulcan has supplied check valves to the nuclear industry since the early 1970's. It is designed to provide positive shutoff even at low differential pressures.

Features

- 3 – 18 inch, Class 150 – 1500+
- Bolted bonnet
- Available without cobalt
- Carbon, stainless and special materials



Copes-Vulcan has been engineering and manufacturing valves for the nuclear industry since 1903, and has proudly produced globe, gate, swing check, butterfly, ball and sampling valves for their nuclear customers. Copes-Vulcan has provided technical solutions for a variety of nuclear applications including feedwater, steam dump, pressurizer spray, reactor coolant, sampling, service water, and safety injection valves.

In 2000, SPX acquired Copes-Vulcan and optimized its operations by separating the commercial and nuclear valve manufacturing, moving its nuclear operations to McKean, Pennsylvania. The McKean facility holds ASME "N" and "NPT" stamps and is certified by ASME to manufacture valves and components to the Boiler and Pressure Vessel Code. Copes-Vulcan offers field service technicians and technical support to their customers, and has been actively providing refurbishments and upgrades of existing equipment to help the utilities to reduce their maintenance costs and support power uprates.

Copes-Vulcan has manufactured valves for boiling water reactors (BWR), heavy water reactors (CANDU) and pressurized water reactors (PWR), and has supplied valves to many countries including the United States, Canada, Mexico, South Korea, China, Japan, Switzerland, Brazil and more.

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For more information about our worldwide locations, approvals, certifications, and local representatives, please visit www.spxfc.com.

SPX Corporation reserves the right to incorporate our latest design and material changes without notice or obligation.

Design features, materials of construction and dimensional data, as described in this bulletin, are provided for your information only and should not be relied upon unless confirmed in writing.