

## Velan Bellows Seal Valves

### Challenge

High-pressure temperature applications require high-quality and field-proven valves. In addition, containment of toxic and aggressive fluids requires high reliability.

### Solution

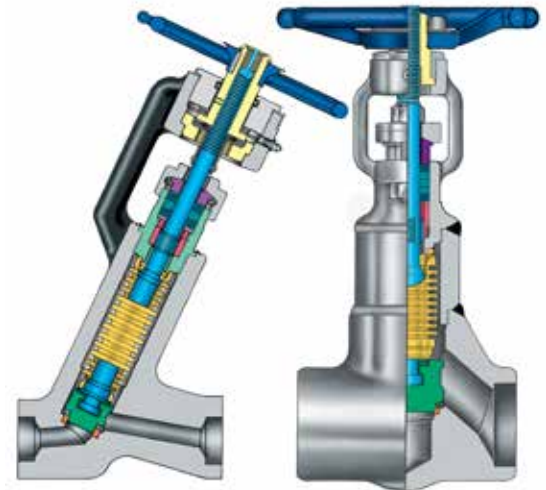
The Nuclear Parts Center (NPC) delivers products with the field-proven performance for the variety of applications you require. The NPC is the exclusive distributor of Velan ASME III Class 1 valves. The NPC and Velan Valve teams work with customers to provide Velan Bellows Seal Valves — conveniently delivered to your site, exactly when you need them.

### Velan Bellows Seal Valves — A Track Record of High Performance

The superior performance of Velan Bellows Seal Valves is proven by 50 years of highly successful service. A non-rotating stem prevents torsion of the bellows and ensures long cycle life on all valves. Their low-torque design operates safely and efficiently — even in high pressure-temperature applications. Moreover, these valves have two secondary stem seals, the backseat stem bevel (which protects from line pressure when open) and the stem packing. The valves are hermetically sealed and the body-bonnet welds provide a hermetically-enclosed vessel in most designs. The stem-bellows assembly can be easily removed and replaced on valves with a bolted bonnet. On seal-welded valves, removal and replacement of the weld is necessary. Special power tools are available for cutting the seal weld.

### A Variety of Applications

Reliability and total containment of toxic and aggressive fluids is achieved with bellows-sealed stem and seal-welded body bonnet joints. The environmentally-friendly design also protects operators and the public from packing and gasket leakage. In addition, the valves provide maintenance-free service for 2,000 to 5,000 cycles. And they are ideal for steam applications — containment is no problem, precluding costly loss of energy.



### Customer benefits

- NPC is the exclusive distributor of Velan ASME III Class 1 valves
- A non-rotating stem prevents torsion of the bellows, ensuring a longer life cycle on all valves
- Velan's low-torque design operates safely and efficiently — even in high pressure-temperature applications, enhancing flexibility
- Seal-welded body bonnet joints improve reliability while containing 100% of toxic fluids
- Environmentally-friendly design protects the public and operators from packing and gasket leakage
- Velan Bellows Seal Valves provide maintenance-free service for 2,000 to 5,000 cycles

**Your performance**  
is **our** everyday **commitment**

Bellows-sealed valves are currently in use in difficult and toxic services for the following fluids: Acrylonitrile, Ammonia, Argon, Benzene, Carbon Dioxide, Caustic Solutions, Chlorine, Heat transfer oils/media, Dowtherm, Ethyl Mercaptan, Freon, Helium, Hydrogen, Hydrogen Bromide, Hydrogen Chloride, Hydrogen Sulfide, Hydrofluoric Acid (HF), Nitrogen, Phosgene, Potassium (liquid), Sodium (liquid), Steam, Sulfuric Acid, Titanium Tetrachloride, Toluene, Vinyl Chloride.

## Technical Specifications

### VNDS-003 Specification

- 1/2" through 2" Sizes
- 800#, 1730#, 2500#
- CS and SS
- Nickel-Chromium A

### VNDS-003 Spec Requirements

- "N" Stamp
- Minimum design life of 40 years
- Valves pressure rated per ASME B16.34-800#, 1730#, 2500#



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