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A Division of Wright Technical Marketing, LLC

Koso Hammel Dahl Series V999 Nuclear Sampling Valve

1500# Bellows-Sealed Design

The Hammel Dahl Nuclear Sampling Valve is primarily intended for PWR applications requiring a bellows seal design. However, its compact/light weight design makes it an excellent choice for nuclear plant sampling valve applications wherever spatial constraints and/or weight limitations exist. Primary features and benefits include:

- Provided to ASME Section III, Class 1 requirements
- Compact and lightweight design accommodates tight spatial constraints and line mounting.
- Bellows-Sealed for PWR primary system applications.
- Secondary graphite packing provides back-up sealing in unlikely event of a bellows leak.
- Extremely short stroke facilitates small sample requirements and use of compact limit switches.
- Enhanced bellows design and material (Inconel 600) to provide extended service life without bellows failure.
- High closing thrust to assure positive shut-off.
- Hermetically-sealed body to bonnet joint to eliminate typical bolted-bonnet leakage.
- Hardfaced seat and plug seating surfaces, precluding need for frequent servicing of valve to replace or renew seating surfaces.
- One-Piece Plug and Stem, simplifying design.
- Rugged construction designed to satisfy typical nuclear plant seismic requirements.
- Radiation-resistant piston seal materials for installation in radioactive environments.
- Refined design based on decades of operating experience.



For more information contact:

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KHDNSV-5

Koso Hammel Dahl Series V999 Nuclear Sampling Valve

Product Specification Sheet

Type:	KHD Series V999, with Bellows Seal
Size:	½" standard (other sizes available)
Pressure Class:	ANSI 1500# (available in reduced ratings)
Actuator Type:	Pneumatic Piston, Spring-to-Close
Design Code:	ASME Section III, Class 1
Body Material:	ASME SA479-316L (others available)
Bellows Material:	Inconel 600
Rated Cycle Life:	30,000 cycles
Nominal Valve Stroke (in.):	0.150 in.
Trim Type:	Quick-Open
Overall Height (in.):	26 in. (bottom of valve to top of actuator)
Cylinder Diameter:	6-3/4 in.
Body end-to-end (in.):	3.0 in.
Approximate Weight (lbs):	55 lbs. (valve and actuator)
*Seismically Qualified:	Yes, per static analysis
Available Accessories:	Micro-switches, solenoid valve

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