

Specifications For DBT-Series Isolation Damper

Damper Design:

The damper shall be P&G Manufacturing DBT-series, flat blade isolation damper. The damper body shall be manufactured from 11 ga. T-304 stainless steel sheet metal. The damper body shall be cylindrical, and have two (2) 3/16" T-304 stainless steel plates with a silicone gasket between them. When fully closed, the damper shall seal when the silicone gasket seats against the inside of the damper body. A 1-1/2" wide X 3/16" thick bolting flange shall be provided on the inlet and outlet of the damper. Flanges shall have a factory drilled bolt hole pattern (7/16" diameter bolt holes), and shall be no more than 4" apart, as recommended in ERDA 76-21, "Nuclear Air Cleaning Handbook". A 1-1/2" x 1/4" thk. neoprene gasket shall be provided for the inlet/outlet bolting flanges.

Welding And Cleaning:

All "pressure retaining" weld joints and seams shall be continuously welded with no porosities allowed. Joints and seams requiring only intermittent welds such as reinforcement members, shall be intermittently welded. Damper will free be of all burrs, and sharp edges. All weld joints and seams that are a portion of any gasket setting surface, (duct connection flanges), shall be ground smooth and flush with adjacent base metals. All welding procedures, welders, and welder operators shall be qualified in accordance with ASME Boiler and Pressure Vessel Code, Section IX. All welded joints and seams shall be wire brushed to remove heat discoloration.

Quality Assurance And Factory Testing:

DBT-series dampers shall be manufactured under a quality assurance program that addresses ASME NQA-1, "Quality Assurance Program Requirements for Nuclear Facilities". The damper blade shall be tested in the closed position at +10" w.g. and shall be bubble tight when tested in accordance with ASME N510-1995 Reaffirmed, "Testing of Nuclear Air Cleaning Systems". The complete damper pressure boundary shall be leak tested at +10" water gage and have a maximum leak rate of 0.0005 cfm per cubic foot of housing volume.

Actuator:

Actuator is installed and equipped with an 8" hand wheel. Actuator shall be quarter-turn manual worm geared. Actuator housings and covers are cast aluminum, worms are heat-treated carbon steel, worm wheels are cast ductile iron, input shafts are carbon steel, shaft and worm seals are BUNA-N rubber, housing to cover seals are silicon sealant, bushings are oil impregnated copper nickel steel alloy. Actuator maximum output torque is 2,000 in. lbs., with a gear ratio of 30:1.

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DRAWN BY: RBD		TITLE FLAT BLADE DAMPER SPECIFICATIONS DBT-M-XX-304			
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APPROVED BY: HJH		DRAWING NO.: DBT		SHEET 1	OF 1
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REV.	DRAWN BY DATE	DESCRIPTION:	APPR. BY DATE
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DIM/SCALE: 1 TEXT HEIGHT: 1