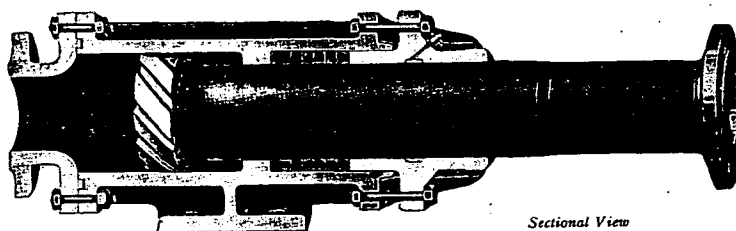


MOGUL

Mogul Machine Company
WITHERSPOON BUILDING
Philadelphia, Pa.

MOGUL Double-End-Guided Expansion Joints



Sectional View

THE "DOUBLE-END-GUIDED" PRINCIPLE

The Expansion Tube is guided into perfect alignment with the body of the expansion joint by two well-fitted bronze guides. They are described as the Piston-Guide and the Gland-Guide. The expansion tube, at any part of its traverse, is therefore concentrically guided and supported at both ends. All side thrusts or strains are borne by these two bronze guides, and the expansion tube "bridges" the packing. This construction eliminates all tendency to crush or to displace the packing or to partially guide the expansion tube against it. With the "double-end-guided" principle the packing performs its proper function. It packs the joint against leakage without excessive pressure of the packing against the sliding tube, and it will operate continuously without leakage.

The Piston-Guide is made of hard bronze, and is in the form of angular guides and grooves to reduce the mass of metal and the diametrical expansion; thus permitting a close sliding fit of the piston even when operating at high temperatures. The angular guiding surfaces overlap each other to prevent the possibility of wearing grooves in the bearing surfaces.

The Gland-Guide is made of hard bronze, and is externally supported and concentrically guided. It performs the functions of a combination packing gland and a pipe guide. The greater part of the outside surface is exposed and air-cooled, and the inside bearing surface is lubricated.

PACKED WHILE THE LINE IS HOT

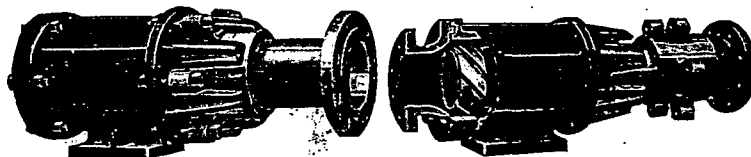
The illustration shows how the MOGUL Double-End-Guided Expansion Joint may be packed promptly after the pressure is shut off and while the line is hot and in an expanded condition.

When the piston-guided end of the expansion tube is at the extreme inner end of its traverse the outer, or flanged end extends well beyond the guide. The gland-guide may therefore be completely withdrawn without interference with the coupling or pipe flange. This eliminates the necessity of waiting for the pipe line to cool and contract, often a matter of several days with the attendant interrupted service.

TRAVERSE STOPS

MOGUL Double-End-Guided Expansion Joints have heavy built-in Traverse Stops. The base-ring at the end of the packing chamber forms the forward traverse stop and the body flange, or yoke, is the rear stop. The travel or traverse of the expansion tube is limited between these stops. They are positive traverse stops. They cannot be weakened by corrosion or tampered with or misadjusted. The travel of the expansion tube is therefore limited by the piston-guide coming in contact with the stops. This provides absolute protection against pulling the tube out of the joint and rupturing the pipe line.

MOGUL Double-End-Guided Expansion Joints are made in all standard pipe sizes from 2 in. to 36 in., for saturated steam, superheated steam, and for all fluids, pressures and temperatures.



Exterior View

Packed While the Line is Hot

Complete Information, Dimensions and Prices Upon Request or Our Nearest Agent will Gladly Call

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National Radiator Co.
Oil City Boiler Works
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