

SMM 10 **Flow conditioner**

An advance in the design and sizing of gas regulation/metering stations

- ✓ **Reduced gas flow turbulence (swirl, jet, pulsation, etc.)**
- ✓ **Enhanced metrological performance**
- ✓ **Improved regulation/metering stations compactness**
- ✓ **Reduced installation costs**
- ✓ **Adaptable to existing stations**

USGasTech Inc

Providing gas-related technologies to the American Gas Industry

➤ General presentation



The SMM 10 dual conditioner was developed on the basis of a concept combining:

- ✓ a plate pierced with a central hole and three rings of axisymmetric peripheral holes. The holes' diameter and number are defined by an algorithm that was an integral part of the development project.
- ✓ a porous plate in nickel-chromium alloy, which porosity was defined in order to get the best metrological result while limiting plugging effects and therefore pressure losses.

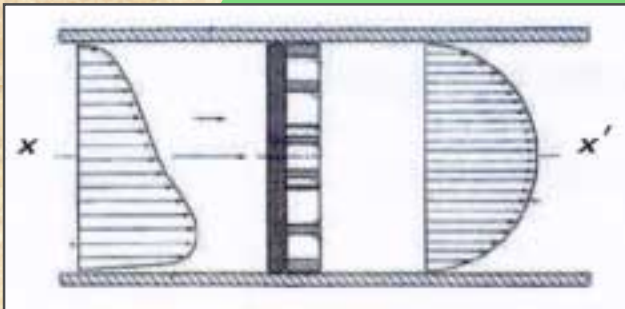
Unlike other equipment on the market, the SMM 10 flow conditioner does away with straight pipe sections usually necessary upstream from a turbine meter in regulation/metering stations. It also guarantees accuracy and repeatability in metering, which is compatible with new increased demands of customers for quality, and expected evolutions in regulations.

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➤ Characteristics

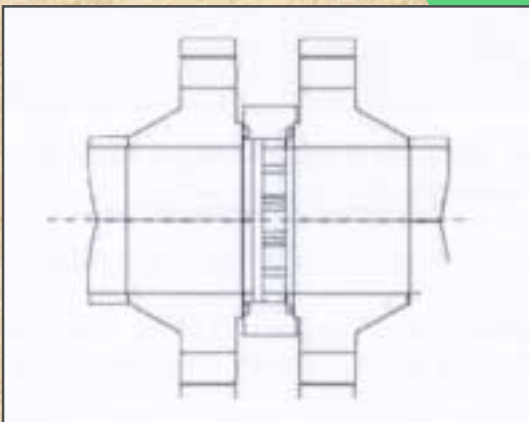
Functions



The flow conditioner significantly reduces gas flow turbulence such as:

- ✓ swirl
- ✓ jet effects
- ✓ acoustic pulsations
- ✓ dissymmetry of the vein

Assembly



In the basic model, the two parts of the flow conditioner filter into an annular shoulder, which allows installation between flanges.

SMM 10: an advance for gas meters in metering accuracy and repeatability.