

Flow Straightener APF-FST



Knowledge is our difference

Flow straightener

Swirl is a condition where the gas velocity is not totally parallel to the axis of the pipe but has a spiral component. It may be caused by complex piping, control and/or shutoff valves, elbows or other fittings in the meter/regulator station.

Swirl in the direction of the rotor rotation will cause a turbine meter to over-register and vice-versa for swirl in the opposite direction of the rotor. Apadana Petro Farayand straightener, straighten the gas flow to a normal pattern, enabling accurate measurement by the downstream turbine and ultrasonic meter.

As flow passes through the vane bundle, the disturbance is straightened and smoothed to a normal flow pattern. Straightening Vanes are economical because their use often allows sufficient reduction of upstream meter tube length, so that a smaller building or enclosure is possible.

Apadana Petro Farayand Straightening Vanes are manufactured in a variety of sizes, in carbon steel and stainless steel. They are in accordance with recommendations of the A.G.A., ISO, and A.S.M.E., as well as numerous other societies and associations. We design and construct tube bundle and perforated plate straightener. The tubes in tube bundle type are welded at both ends at each point of tangency. Tube inlets and outlets are reamed to permit minimum pressure drop. Special spacer lugs on each tube bundle assure a perfect fit in the meter tube.

An unequal, imbalanced fluid flow force on the inlet of pumps and other critical process components can result in premature, unexpected and expensive failures. Like flow meters, pump and component manufacturers often require a specified straight-run to achieve a uniform and balanced flow entering the inlet of the pump and system, frequently as condition of their warranty.



Applications

- Oil & Gas
- Petrochemical Industries
- Power Stations

Material

- As per Customer's requirements
- Main material Reference: ASTM-ASME Code



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