

Data Sheet PTC-6 ASME

PTC-6 ASME Flow Nozzle

Precision Flow Measurement for Steam Turbine Acceptance Tests

rimary Flow Signal, Inc. is a leader in the design and manufacture of Venturi differential flow meters. Field-proven in hundreds of thousands of installations worldwide, differential metering ensures the most accurate and reliable metering available anywhere. Through innovation, coupled with peerless engineering and technical expertise, PFS delivers customers versatile, ultra-long lasting liquid and gas metering solutions for a variety of applications and industries.



The **PFS PTC-6 ASME flow nozzle** provides the high precision needed for the testing of steam turbines under ASME PTC-6 2004 Performance Test Code. The PTC-6 ASME integrates flow conditioners for added accuracy, and diffuser cones to reduce downstream pressure loss, and also provides flanged-end PTC6-PTFFR and weld-in PTC6-PTWWR style nozzles.

PTC-6 ASME Flow Nozzle Features

Line size: available from 4" to 24"

Cones: available in PTC6-PTFFR (flanged-end) and PTC6-PTWWR (weld-in)

Engineered to PTC-6 recommended standards:

35 hole perforated plate 19 (standard) to 61 tube bundle

Diffuser Cone: mitigates any pressure loss by as much as 70%

ASME design standards:

ASME PTC-6 2004

ASME PTC 19.5 2004

ASME Research Committee Report on Fluid Meters -6th. Edition

ASME fabrication standards:

ASME Section I

ASME B31.I - Power piping

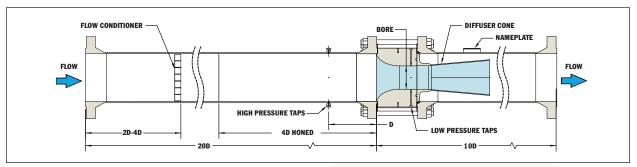
ASME B31.3 - Process piping

End connections: both the flangedend PTC6-PTFFR and weld-in PTC-PTWWR are equipped with four (4) integrally machined throat pressure taps, and are precisionmachined and polished for a cylindrical, hydraulically smooth surface.

PTC-6 ASME

PTC-6-PTFFR: Flanged-end Style

Ideal for condensate return flow where line pressures are low to moderate



Application: clamped between two mating flanges

Construction: this assembly allows for easy removal and inspection of the nozzle, pressure taps, and piping during performance testing

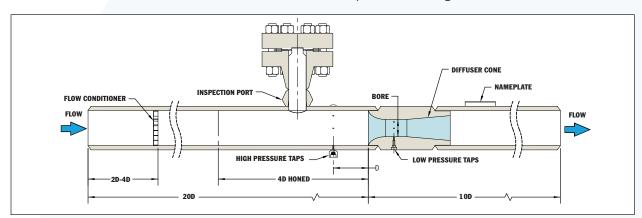
Nozzle: can be furnished with the diffuser cone integral to the flow nozzle or as an attachment

End connections: flanges may be flat faced, ring type joint, large groove, or tongue-and-grooved

Material: carbon steel process piping, 304 stainless steel flow nozzle/flow conditioner, other material combinations and grades available

PTC6-PTWWR: Weld-in Style

Ideal for the measurement of final feed water flow where line pressures are high



Application: permanently welded in place between the upstream and downstream pipe sections

Inspection: standard ports to allow for coderecommended nozzle inspection



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Primary Flow Signal, Inc. products and operations are certified to industry standards for safety and performance. Visit our web site for details.

Support Services

In addition to a wide range of differential producing Venturi flow meters, orifice plates, WedgeType™ flow meters, and open channel flow elements, PFS provides comprehensive, specialized services for new and existing flow meters, including rehabilitation, hydraulic analysis, and full engineering support.

Certifications

ISO 9001, ASME S, U, R; European PED Module H; and other internationally recognized certifications, such as GOST, IBR, and CRN.

Contact a Field Application Engineer for assistance.



All PFS products are proudly made in the U.S.A.