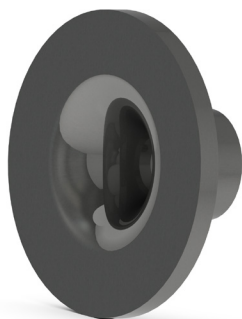


The ASME flow nozzle is a high performance, reliable measurement device, that can be installed in various design and material configurations with conformance to ASME MFC-3M, ASME PTC-6, and ASME PTC 19.5 codes.

General Features		
Line Size	Discharge Coefficient	ASME Design Standards
2" to 24" (50.8mm to 609.6mm)	±2.0% wall tapped nozzle (ASME MFC standard)	ASME PTC-6
	±1.0% wall tapped nozzle (ASME PTC 19.5 standard)	ASME PTC 19.5
Beta Ratio	±0.25% throat tapped nozzle (ASME PTC 6 standard)	ASME MFC-3M
0.20 to 0.80		ISO-5167
Nozzle Material	End Connections	ASME Fabrication Standards
300 series stainless steel	Flanged or Welded	
Other materials available	Pressure Taps	
Piping Requirements	Wall Tap – 1D upstream, 0.5D downstream	
ASME specified	Throat Tap – 1D upstream, code spec'd downstream	ASME B31.1 – power piping ASME B31.3 – process piping



ANZF – Nozzle Flanged

Nozzle designed to be mounted between two flanges. ANZW model available to be welded-in between upstream and downstream pipe sections.



ANZFFR – Flanged Nozzle, Flanged Meter Run

Flow nozzle machined with a holding flange. The nozzle is mounted concentrically with the process flange of two pipe sections.

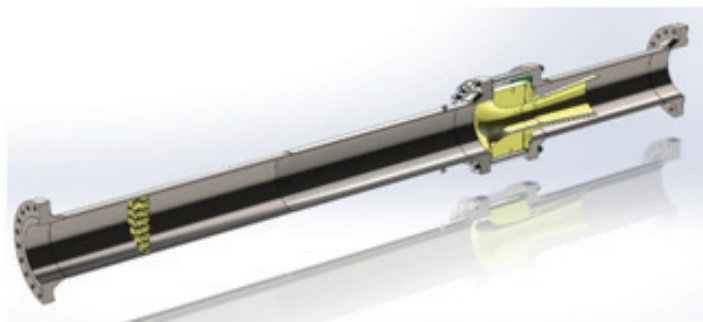


ANZWFR – Welded Nozzle, Welded Meter Run

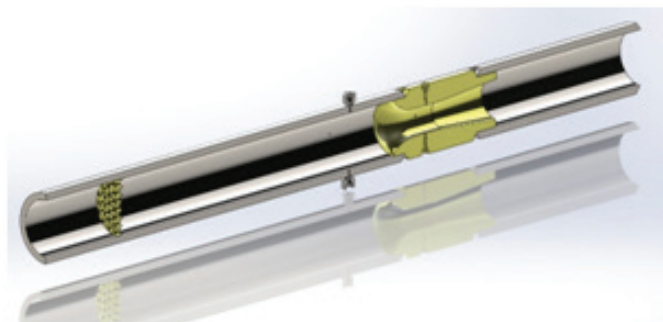
Flow nozzle installed within a meter run by welding. Used regularly in high pressure and temperature feedwater and steam applications within power plants where flanged mounting is precluded.

PTC-6 ASME Flow Nozzle

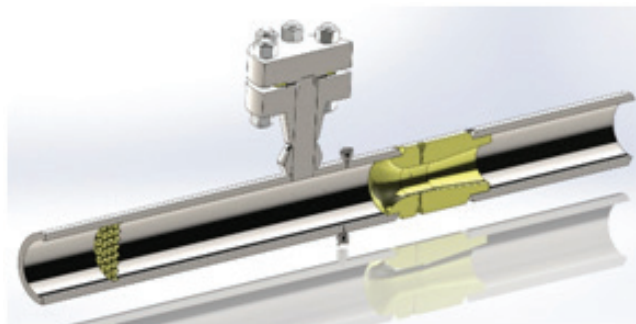
This flow nozzle provides high accuracy and precision required by ASME PTC-6 in steam turbine testing applications. The assembly consists of a flow conditioner for added accuracy, a diffuser cone for reduced pressure loss, and either a flanged or weld-in flow nozzle. Available in line sizes 4" to 24" with perforated plate or tube bundle flow conditioner, flanged-in or weld-in end connections, and four integrally machined throat pressure taps that are precision-machined and polished. Design standard ASME PTC-6 or ASME PTC 19.5.



Model APTFFR – PTC-6 flanged nozzle in a flanged meter run



Model APTWWR – PTC-6 welded nozzle in a welded meter run



Model APTWWR – PTC-6 welded nozzle in a welded meter run with inspection port

Flow Nozzle Meter Offerings - Model Numbers	
AHN	Halmi Nozzle
ANZF	Nozzle Flanged
ANZFFR	Nozzle Flanged, Flanged, Meter Run
ANZFWR	Nozzle Flanged, Welded, Meter Run
ANZW	Nozzle Weld-In
ANZWFR	Nozzle Weld-In, Flanged, Meter Run
ANZWWR	Nozzle Weld-In, Welded, Meter Run
APTFFR	PTC-6 Flanged Nozzle, Flanged, Meter Run
APTFWR	PTC-6 Flanged Nozzle, Welded, Meter Run
APTWFR	PTC-6 Welded Nozzle, Flanged, Meter Run
APTWWR	PTC-6 Welded Nozzle, Welded, Meter Run