

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	±2.0% wall tapped nozzle (ASME MFC standard)	ASME PTC-6
609.6mm)	±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		
Nozzle Material	End Connections	ISO-5167
300 series stainless steel	Flanged or Welded	ASME Fabrication Standards
Other materials available	Pressure Taps	ASME Section 1
Piping Requirements	Wall Tap – 1D upstream, 0.5D downstream	ASME B31.1 – power piping
ASME specified	Throat Tap – 1D upstream, code spec'd downstream	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.

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## 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

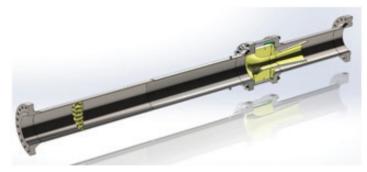
Flow nozzle installed within a meter run by welding. Used regularly in high pressure and temperature feedwater and steam applications within power plants where flanged mounting is precluded.

Designs, materials, weights and performance ratings are approximate and subject to change without notice. Visit armstronginternational.com/veris for up-to-date information.



## **PTC-6 ASME Flow Nozzle**

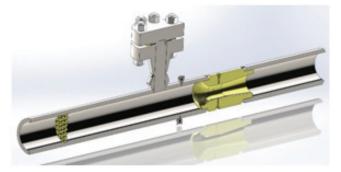
This flow nozzle provides high accuracy and precision required by ASME PTC-6 in steam turbine testing applications. The assembly consists of a flow conditioner for added accuracy, a diffuser cone for reduced pressure loss, and either a flanged or weld-in flow nozzle. Available in line sizes 4" to 24" 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	

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