



Quality Products & Sales Inc
Orifice Metering Division

PO Box 7

Broken Arrow Ok 74013

Local #(918) 251-0115 * Watts #(800) 444-4634 * Fax #(918) 455-1982

*30 Years
 Experience
 In design
 and
 Manufacturing*

Meter Selection Chart

Meter Type	Pipe Size (in.)	Clean Gas/Vapor	Dirty Gas/Vapor	Clean Liquid	Dirty Liquid	Corrosive	Viscous	FLOW RESTRICTION	PRESSURE RESTRICTION	Uncalibrated Accuracy	Calibrated Accuracy	Rangability
Orifice Plate												
Bore & Bevel	1/2">	■		■	■			■	■	<1%	1/4%	4:1
Bore (No bevel)	1/2">							■	■	2%	1/4%	
Quadrant Bore	1.5">			■	■		■			<1%	1/4%	4:1
Segmental Bore	2">	■	■	■	■					<1%	1/4%	4:1
Eccentric Bore	2">	■		■	■					<1%	1/4%	4:1
Drain Hole	2">			■	■							
Vent Hole	2">	■	■									
Venturi Tubes												
Classical												
Short Form	2">	■	■	■	■					<1%	1/4%	10:1
Long Form	2">	■	■	■	■					<1%	1/4%	10:1
Low Loss	3">	■	■	■	■					<1%	1/4%	10:1
Universal	2">	■	■	■	■					<1%	1/4%	10:1
Flow Nozzles	2">	■	■	■	■					<1%	1/4%	10:1
Multi-Stage Restriction Tube	1/2">							■	■	2%	1/4%	
Restriction Union	1/4">				■			■	■	2%	1/4%	
Pitot Tubes	1/2">	■		■		■	■			<1%	1/4%	4:1

■ = Designed for this application
 ■ = Normally acceptable
 □ = Not designed for this application

The above products are manufactured to one or more of the following specifications:

A.G.A. Report #3 (2000)

A.P.I. 14.3 (2000)

A.S.M.E. MFC-3M

A.S.M.E. Fluid Metering Sixth Edition

other specification available up request

ASME B31.1

ASME B31.3

API-1104

Sizing Calculations are per one of the following equations:

ANSI/API 2530 AND A.G.A. REPORT #3

ASME MFC-3M AND ISO-5167