

<b>DOCUMENT NO:</b> MG-001	<b>TITLE:</b> Measurement Guidelines for Diaphragms (Cones, Domes, etc.)	<b>PAGE:</b> 1 of 2
<b>APPLICATION:</b>	<b>REVISION:</b> DRAFT	<b>DATE:</b> 1/6/08

<b>Feature</b>	<b>Measurement Method</b>	<b>Measurement Device (Reference)</b>
Body O.D. Size (circular only)		Dial or Digital Caliper
Body O.D. Position (circular only)		
Body O.D. Major (elliptical only)	N/A	N/A
Body O.D. Minor (elliptical only)		
Body O.D. Profile (elliptical only)		
Neck I.D.	TM-104	Taper Gauge Dial or Digital Caliper
Body Height		Height Gauge
Neck Height		Dial or Digital Caliper
Body Thickness		Micrometer
Body Angle (Major/Minor)		Optical Comparator
Body/Dome Radius (Inner/Outer; Major/Minor)		Optical Comparator
Lead Hole Diameter		Pin Gauge
Lead Hole Width		Dial or Digital Caliper
Lead Hole Length		Coordinate Measuring Machine
Lead Hole Radius		Optical Comparator
Body Mass	TM-114	Gram Scale
Attach Angle (Major/Minor)		Optical Comparator
Flange Thickness		Micrometer
Inner Roll Radius		Optical Comparator
Surround Thickness		Micrometer
Flange Width		Dial or Digital Caliper
Flange Flatness		
Roll Height		Height Gauge
Roll Depth		Height Gauge
Shoulder Height	(apex DOWN)	Height Gauge
Overall Height	(apex DOWN)	Height Gauge
Surround O.D. Size (circular only)		
Surround O.D. Position (circular only)		
Surround O.D. Major (elliptical only)	N/A	N/A
Surround O.D. Minor (elliptical only)		
Surround O.D. Profile (elliptical only)		
Roll O.D. Size (circular only)		
Roll O.D. Position (circular only)		

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Roll O.D. Major (elliptical only)	N/A	N/A
Roll O.D. Minor (elliptical only)		
Roll O.D. Profile (elliptical only)		
Roll I.D. Size (circular only)		
Roll I.D. Position (circular only)		
Roll I.D. Major (elliptical only)	N/A	N/A
Roll I.D. Minor (elliptical only)		
Roll I.D. Profile (elliptical only)		
Surround I.D. Size (circular only)		
Surround I.D. Position (circular only)		
Surround I.D. Major (elliptical only)	N/A	N/A
Surround I.D. Minor (elliptical only)		
Surround I.D. Profile (elliptical only)		
Surround Mass		
Assembly Mass	TM-138	Gram Scale
Resonance	TM-100	Sine Wave Generator Frequency Counter Amplifier (Audio) Driving Loudspeaker Matched Clamp Rings Mounting Apparatus
Deflection	TM-438	Mass(es) or Electronic Force Gauge Micrometer or Stepper Motor System Mounting Apparatus/Fixture Matched Clamp Rings Center Plug/Cap Detector or Data Acquisition Computer
Measurement Clamp I.D. (Major/Minor)		

### Revision History

Rev Level	Description of Change	Prepared/ Changed By/ Date	Approved By/ Date
DRAFT	Create document	Brian Sterling 7/21/03	ALMA Committee 1/7/04
DRAFT	Change "WI" to "TM", add Measurement Methods	Brian Sterling 1/6/08	ALMA Committee 1/6/08