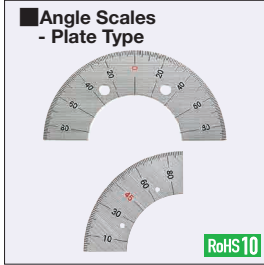
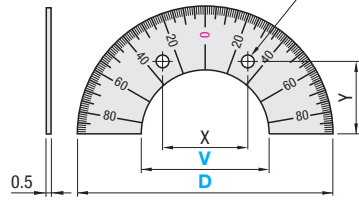


# Angle Scales / Bubble Levels

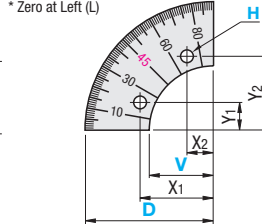
\* Use as measuring tool for adjustment of machines and equipment.



**MEAA** (180-Degree Type)



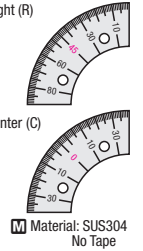
**MEAB** (90-Degree Type)



\* Zero at Right (R)

\* Zero at Left (L)

\* Zero at Center (C)



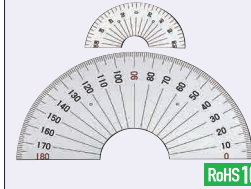
Material: SUS304 No Tape

Part Number		D	V	H	X	Y	Unit Price
Type	Graduation Direction						
<b>MEAA</b> 180 Degree Type	C (Zero at Center)	40	20	3	13.5	11.5	
		60	30		20	17	
		100	50		36	26	
		140	80		48	40	

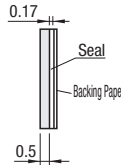
Part Number		D	V	H	X1	Y1	X2	Y2	Unit Price
Type	Graduation Direction								
<b>MEAB</b> 90-Degree Type	L (Zero at Left)	20	10	3	12	5	5	12	
	R (Zero at Right)	30	15		17	7	7	17	
	C (Zero at Center)	50	25		29	12	12	29	
		70	40		43	18	18	43	

Ordering Example: Part Number - V - H  
MEABC50 - 25 - 3

## Angle Scales - Double-Sided Adhesive Tape



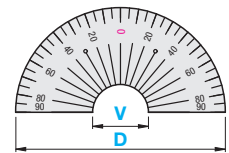
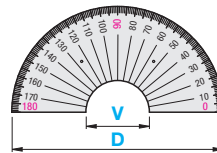
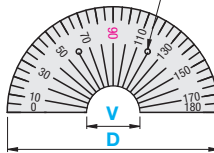
**MEAN**



\* Zero at Left (L)

Hole Machining Mark \* Zero at Right (R)

\* Zero at Center (C)



For D40 and D60, angle graduations are marked in 5 degree increment.

For D100 and D140, angle graduations are marked in 1 degree increment.

Material: A1050P With Tape

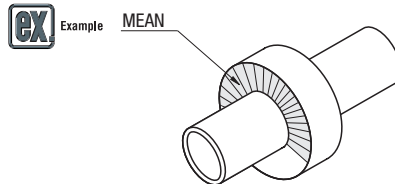
Part Number		D	V Selection						Unit Price		
Type	Graduation Direction										
<b>MEAN</b>	L (Zero at Left)	40	10	12	16	20					
	C (Zero at Center)	60				16	20	25	30		
	R (Zero at Right)	100				30			35	40	50
		140				40			50	60	80

Ordering Example: Part Number - V  
MEANC60 - 25

Zero position changes depending on the scale direction.  
Similar products are available. For Adjusting Collars **P:1155**

Alterations: Part Number - V - (HC)  
MEANC140 - 60 - HC

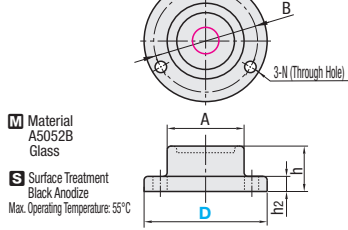
Alterations	Code	Spec.															
<b>Hole Machining</b> 	<b>HC</b>	Adds mounting holes at hole machining marks. MEAN: Ø3.5x2 places Adhesive tape is affixed to the back. (Mounting Hole Dimension Diagram) <table border="1"> <thead> <tr> <th>D</th> <th>X</th> <th>Y</th> </tr> </thead> <tbody> <tr> <td>40</td> <td>13.5</td> <td>11.5</td> </tr> <tr> <td>60</td> <td>20</td> <td>17</td> </tr> <tr> <td>100</td> <td>36</td> <td>26</td> </tr> <tr> <td>140</td> <td>51</td> <td>36</td> </tr> </tbody> </table> Available for MEAN only.	D	X	Y	40	13.5	11.5	60	20	17	100	36	26	140	51	36
D	X	Y															
40	13.5	11.5															
60	20	17															
100	36	26															
140	51	36															



## Bubble Levels (Mounting Type)



**SMTP**

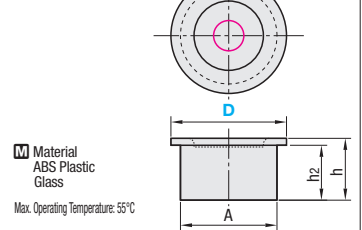


Material: A5052B Glass  
Surface Treatment: Black Anodize  
Max. Operating Temperature: 55°C

## Bubble Levels (Embedded Type)



**SMH**



Material: ABS Plastic Glass  
Max. Operating Temperature: 55°C

Part Number		A	B	h	h2	Mounting Hole (N)	Sensitivity	Unit Price
Type	D							
<b>SMTP</b>	28	16	22	10.5	3.5	2	38'12" (R-180)	
	32	20	27	12.0	4.0	3	38'12" (R-180)	

Part Number		A	h	h2	Sensitivity	Unit Price
Type	D					
<b>SMH</b>	20	16.5	11	9.5	38'12" (R-180)	

**Bubble Levels**  
This bubble level is for mounting on a surface that has already been checked to ensure it is level, and it provides a simple level check. Fit it so that the bubble is stationary within the red circle. (A shim or adjustment mechanism may be required depending on the surface accuracy).  
Sensitivity: If the bubble shifts 2 mm from the center, the mounting surface is inclined at 38'12" (approximately 0.6 degrees). R-180 is the radius of the curve of the bubble level (in mm).

Ordering Example: Part Number  
SMTP28