


# PRECISION CARBIDE LIMIT GAUGES

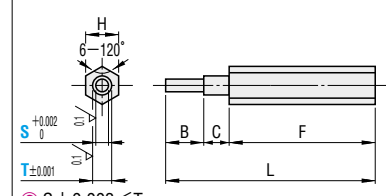
— ONE-END STEPPED TYPE · BOTH-ENDS TYPE —

Ⓜ A quality assurance certificate is provided with these products.



**RoHS**

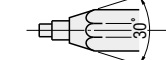
**VGSA1.6~6**

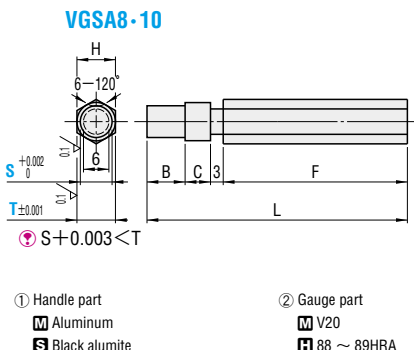


$S \begin{matrix} +0.002 \\ 0 \end{matrix}$   
 $T \begin{matrix} \pm 0.001 \\ 0 \end{matrix}$

$S + 0.003 < T$

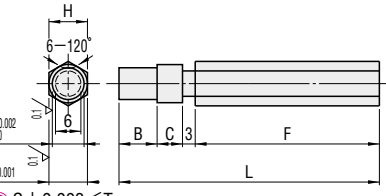
VGSA1.6 Cross-section shape of handle part





**RoHS**

**VGSA8-10**




$S \begin{matrix} +0.002 \\ 0 \end{matrix}$   
 $T \begin{matrix} \pm 0.001 \\ 0 \end{matrix}$

$S + 0.003 < T$

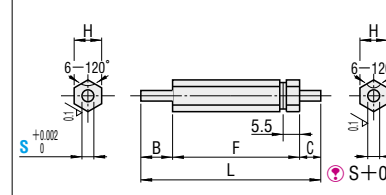
① Handle part  
M Aluminum  
S Black alumite

② Gauge part  
M V20  
H 88 ~ 89HRA



**RoHS**

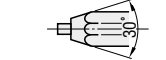
**VGWA1.6~6**

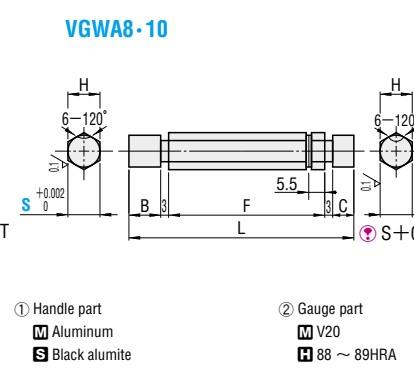


$S \begin{matrix} +0.002 \\ 0 \end{matrix}$   
 $T \begin{matrix} \pm 0.001 \\ 0 \end{matrix}$

$S + 0.003 < T$

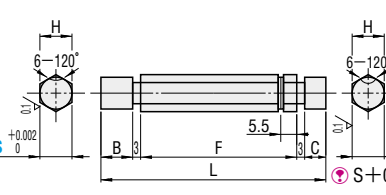
VGWA1.6 Cross-section shape of handle part





**RoHS**

**VGWA8-10**



$S \begin{matrix} +0.002 \\ 0 \end{matrix}$   
 $T \begin{matrix} \pm 0.001 \\ 0 \end{matrix}$

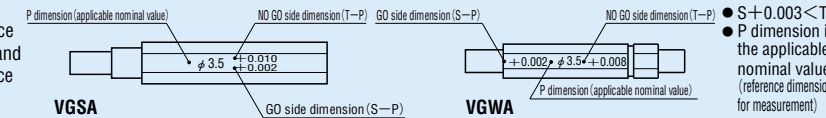
$S + 0.003 < T$

① Handle part  
M Aluminum  
S Black alumite

② Gauge part  
M V20  
H 88 ~ 89HRA

L	VGSA	VGWA	B	C	F	H	Catalog No.		P (Applicable nominal value)		S · T		Base unit price 1 ~ 4 pieces	
							Type	No.	0.001mm increments	0.001mm increments	VGSA	VGWA		
40	40	3	2	35	5	8	VGSA VGWA	1.6	0.300 ~ 1.600	0.300 ~ 1.700				
48	48	5	3					2.0	1.601 ~ 2.000	1.501 ~ 2.100				
50	50	6	4	40				2.5	2.001 ~ 2.500	1.901 ~ 2.600				
57	57	10	7	50	10			3	2.501 ~ 3.000	2.401 ~ 3.100				
67	67							4	3.001 ~ 4.000	2.901 ~ 4.100				
67	67							5	4.001 ~ 5.000	3.901 ~ 5.100				
70	73							6	5.001 ~ 6.000	4.901 ~ 6.100				
								8	6.001 ~ 8.000	5.901 ~ 8.100				
								10	8.001 ~ 10.000	7.901 ~ 10.100				

Ⓜ Tolerance marking  
 As shown in the figure, the tolerance engraving does not indicate the S and T values, but indicates the difference from the P dimension.



M Aluminum  
S Black alumite

● S + 0.003 < T  
 ● P dimension is the applicable nominal value. (reference dimension for measurement)

Order **Catalog No.** - **P** - **S** - **T**  
 VGSA 4 - P3.500 - S3.502 - T3.510

Alterations **Catalog No.** - **P** - **S** - **T** - (BC-CC-MC)  
 VGSA 4 - P3.500 - S3.502 - T3.510 - BC8-MC-S5011

Alteration		Code	Spec.	1Code
		BC	1 ≤ BC < B 0.1mm increments Full length L is shortened by (B-BC).	Quotation
		CC	1 ≤ CC < C 0.1mm increments Full length L is shortened by (C-CC).	
		MC	Addition of engraving on opposite side of tolerance engraving [Order code] MC-S5011 <Marking range> •Max. number of characters : 12 (Max. 8 in case of continuous number string) •Available characters : Alphabet letters and numbers - (hyphen / slash) + (plus) * (asterisk), (period)	


Days to Ship **Quotation**

Price **Quotation**

# PRECISION LARGE CARBIDE LIMIT GAUGES

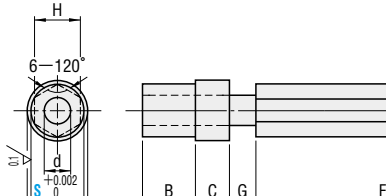
— ONE-END STEPPED TYPE · BOTH-ENDS TYPE —

Ⓜ A quality assurance certificate is provided with these products.



**RoHS**

**VGSB**




$T - S \leq 1$   
 $S + 0.003 < T$

A relief groove of approximately 1mm is created at the location where B and C join.

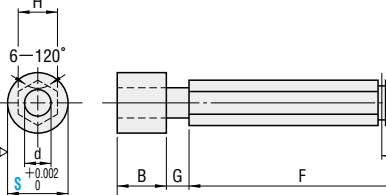
① Handle part  
M Aluminum  
S Black alumite

② Gauge part  
M V20  
H 88 ~ 89HRA



**RoHS**

**VGWB**



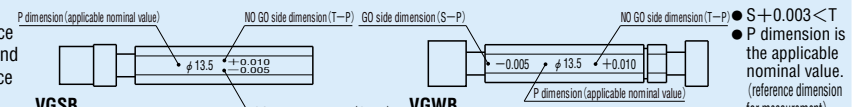
$S + 0.003 < T$

① Handle part  
M Aluminum  
S Black alumite

② Gauge part  
M V20  
H 88 ~ 89HRA

L	VGSB	VGWB	B	C	d	F	G	H	Catalog No.		P (Applicable nominal value)		S · T		Base unit price 1 ~ 4 pieces	
									Type	No.	0.001mm increments	0.001mm increments	VGSB	VGWB		
86	92	12	8	7	60	6	12	14	VGSB VGWB	14	10.000 ~ 14.000	9.901 ~ 14.100				
104	112	16	10	9	70	8	14			18	14.001 ~ 18.000	13.901 ~ 18.100				
108	120			12	17	24	18.001 ~ 24.000			17.901 ~ 24.100						

Ⓜ Tolerance marking  
 As shown in the figure, the tolerance engraving does not indicate the S and T values, but indicates the difference from the P dimension.



M Aluminum  
S Black alumite

● S + 0.003 < T  
 ● P dimension is the applicable nominal value. (reference dimension for measurement)

Order **Catalog No.** - **P** - **S** - **T**  
 VGSB 14 - P13.500 - S13.495 - T13.510

Alterations **Catalog No.** - **P** - **S** - **T** - (AC-MC)  
 VGSB 14 - P13.500 - S13.495 - T13.510 - AC-MC-S5011

Days to Ship **Quotation**

Price **Quotation**

Alteration		Code	Spec.	1Code
		AC	Machining of a φ 2 air hole in the neck of the gauge	Quotation
		MC	Addition of engraving on opposite side of tolerance engraving [Order code] MC-S5011 <Marking range> •Max. number of characters : 12 (Max. 8 in case of continuous number string) •Available characters : Alphabet letters and numbers - (hyphen / slash) + (plus) * (asterisk), (period)	