



# DATA/SPEC SHEET

Divisions: *Clamp Technology • Voss Aerospace • Voss Technologies*  
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Inquiry No. \_\_\_\_\_  
 Type of Inquiry:  P&D  Sample  
 Sample Req'd Date \_\_\_\_\_  
 Sales Rep./Terr. \_\_\_\_\_  
 Copies To: \_\_\_\_\_  
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 Notes: \_\_\_\_\_  
 \_\_\_\_\_

Quote Quantity \_\_\_\_\_ Annual Usage \_\_\_\_\_  
 Probable Order Quantity \_\_\_\_\_ Probable Delivery Schedule/Date Needed \_\_\_\_\_  
 Part No. (if known) \_\_\_\_\_ Part Manufacturer (if known) \_\_\_\_\_  
 Product Description:  T-Bolt Band Clamp  V-Retainer Coupling \_\_\_\_\_

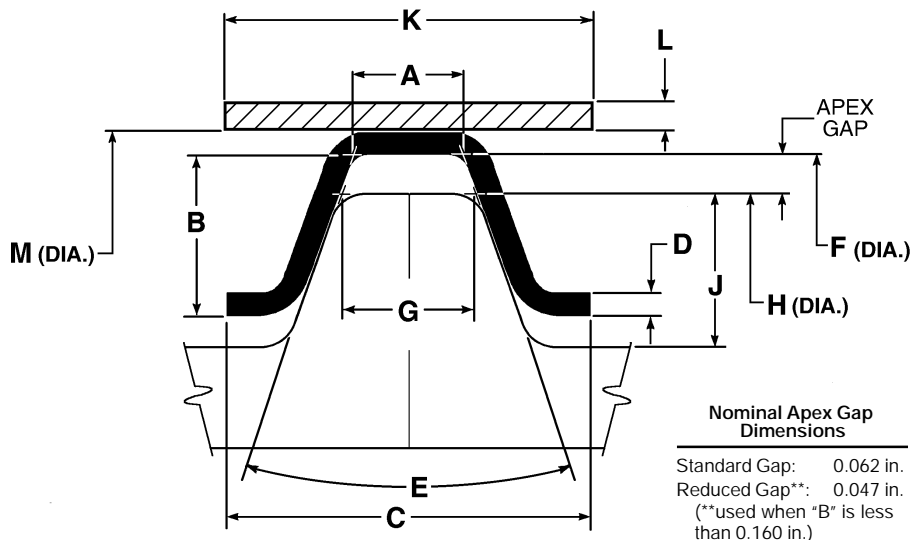
Latch Code\* \_\_\_\_\_ No. of Latches \_\_\_\_\_ Band Material \_\_\_\_\_  
 T-Bolt Material/Code\* \_\_\_\_\_ T-Bolt Size \_\_\_\_\_ Nut Type/Code\* \_\_\_\_\_  
 No. of Retainers \_\_\_\_\_ Retainer Material \_\_\_\_\_

\* NOTE: Refer to Voss **Bulletins 1275** (V-Retainer Selection Guide) and **B210** (T-Bolt & Quick Release Band Clamps) for reference and code numbers.

Application/Design Considerations \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## V-RETAINER COUPLING DIMENSIONS

- A Retainer Apex Width \_\_\_\_\_
- B Retainer Height \_\_\_\_\_
- C Retainer Overall Width \_\_\_\_\_
- D Retainer Material Thickness \_\_\_\_\_
- E Retainer/Flange Angle \_\_\_\_\_
- F Coupling Nominal Diameter  
 $F = H + (2x \text{ Apex Gap})$
- G Flange Apex Width \_\_\_\_\_
- H Flange Diameter \_\_\_\_\_
- J Flange Height \_\_\_\_\_
- K Band (or Strap Loop) Width \_\_\_\_\_
- L Band Mat'l Thickness \_\_\_\_\_



Nominal Apex Gap Dimensions	
Standard Gap:	0.062 in.
Reduced Gap**:	0.047 in.
(**used when "B" is less than 0.160 in.)	

## BAND CLAMP DIMENSIONS

- K Band Width \_\_\_\_\_
- L Band Mat'l Thickness \_\_\_\_\_
- M Band Clamping Diameter \_\_\_\_\_

Dimension Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



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# V-RETAINER COUPLING AND T-BOLT BAND CLAMP OPTIONS SUMMARY SHEET

V-Retainer Materials	
Type 301 CRES	(Standard)
304 & 316 CRES	Available for greater corrosion resistance
A286 & titanium	Available for additional strength

Voss T-Bolt Descriptions & Codes	
Code	Description
A	A-286 CRES, 160,000 psi; 1500°F
C	4037 alloy; 125/145 psi; cad plated
E	431 CRES; 125/145 psi
H	18-8 CRES; 80,000 psi tensile (min.)
K	316 CRES

Voss Nut Descriptions & Codes	
Code	Description
A	A-286 CRES; Self-Locking; Non-Magnetic; 1200°F
H	18-8 CRES; Silver-Plated; Lockwire Hole; 800°F
L	18-8 CRES; Plain Hex; Silver-Plated; 800°F
S	MS 21044 Self-Locking, Nylon Insert; Cad Plated; 250°F
SB	MS 21045 Self-Locking, all metal; Cad Plated; 450°F
SL	18-8 CRES; Silver-Plated; Self-Locking, Nylon Insert
W	AN-350 Wing with Lockwire Hole; Cad-Plated (for diameters under 5 in.)
Z	347 CRES; Self-Locking; Silver-Plated; 1200°F
ZB	303 CRES; Self-Locking; Silver-Plated; 800°F

Voss Latch Descriptions & Codes	
Code	Description
1	Standard T-Bolt & Trunnion
2	Standard T-Bolt Quick-Release
3	Socket head Capscrew
4	Multi-Latch (one Code 1 & one Code 2; strap loops)
5	Multi-Latch (one Code 1 & one Code 2; full band)
6	Multi-Latch (two no. 1 style latches; full band)
7	T-Bolt Over-Center Handle
8	C-30 Formed Clip
9	T-Bolt Saddle latch
10	Multi-Latch (two Code 1; strap loops)
11	Mini Over-Center Handle
18	Multi-Latch (two Code 9 latches)
19	Double-Opposed Trunnion Hex Bolt

Standard T-Bolt Thread Sizes
10-32 UNF-3A
1/4-28 UNF-3A
5/16-24 UNF-3A
Coarse thread sizes available

Application Design Considerations
Operating pressures and temperatures
Mating flange design and materials
Is a gasket used, and if so, what type?
Is frequent removal and installation required?
Is application for liquid or gaseous materials?
Is application subject to vibration?
Is corrosion resistance required?
Non-magnetic properties
Close-tolerance sizing