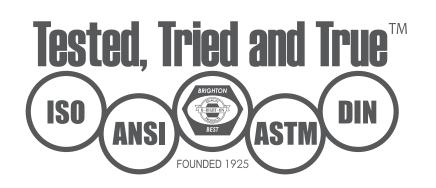


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Hose Clamps

SAE J1508 TYPE F & TYPE M-MINI WORM-GEAR HOSE CLAMPS - 304 & 316 STAINLESS STEEL **BBI CLAMP FAMILY BAND STAMP CORROSION FAMILY** HOUSING **BAND HEX HEAD SCREW** COO **IDENTIFIER** (ALL MANUFACTURERS) **RESISTANCE** VH1 **304 STAINLESS 304 STAINLESS 400 SERIES STAINLESS PLATED W30 STAMP ON BAND SAE SIZE & CLAMPING RANGE TAIWAN BETTER 304 STAINLESS** VH2 **304 STAINLESS 304 STAINLESS W40 STAMP ON BAND SAE SIZE & CLAMPING RANGE TAIWAN BEST** VH3 316 STAINLESS 316 STAINLESS 316 STAINLESS **W50 STAMP ON BAND** SAE SIZE & CLAMPING RANGE **TAIWAN PREMIUM** PHILLIPS/COMBO VH4 **304 STAINLESS 304 STAINLESS CARBON STEEL PLATED SAE SIZE & CLAMPING RANGE TAIWAN** GOOD **DRIVE SCREW**

HOSE CLAMP IDENTIFIERS



HOUSING STAMP 304 SS



BAND STAMP W40 (VH2) 304 SS SAE Size - (4M-128) Clamping Range - inch & mm



SCREW TIP MARKING

#3 - 304 SS Screw

TYPE F | TYPE F | TYPE M

WORM-GEAR HOSE CLAMPS

Worm-Gear or Worm-Drive hose clamps are general purpose hose clamps with a tangential worm drive screw engaging either pierced through slots or embossed threads to allow easy installation. The Worm-Gear hose clamp has a 2-part housing and band construction that allows the band to detach from the housing to be installed without removing the hose or tube. Hose clamps are designed to secure a hose or tube over a fitting, acting as a seal to prevent fluid, gas or air from leaking at the connection.

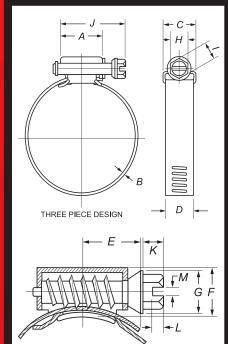
CLAMPING RANGE is the minimum and maximum usable diameter which varies slightly by manufacturer.

DURABILITY TORQUE is the maximum torque value applied to a clamp without evidence of deformation or excessive wear when tightened once over a mandrel. The durability torque varies by screw type.

INSTALLATION TORQUE also known as application torque is the recommended torque for installation of the clamp. This is defined by SAE J1508 as 50% to 70% of the rated "Durability Torque" for specific clamps. However, suggested installation torque for a particular application must be established by the supplier and the user, giving due consideration to the physical configurations, properties of the materials involved, and assembly tools to be used.

SAE J1508 TYPE F & TYPE M-MINI WORM-GEAR HOSE CLAMP STANDARD

DIMENSION



DIMENSION	(inch)	(mm)	MINI (inch)	MINI (mm)
A. HOUSING LENGTH	0.76	19.30	0.42	10.70
B. THICKNESS	0.021/0.031	0.53/0.79	0.019/0.026	0.48/0.66
C. HOUSING WIDTH	0.81	20.60	0.60	15.20
D. BANDWIDTH	0.495/0.569	12.57/14.45	0.305/0.325	7.75/8.26
E. MAX AT OPEN DIAM.	0.75	19.10	0.44	11.20
F. HEIGHT	0.56	14.20	0.38	9.60
G.*COLLAR DIAM.	0.370/0.425	9.40/10.80	NA	NA
H. ACROSS FLATS	0.305/0.312	7.75/7.92	0.244/0.250	6.20/6.35
I. ACROSS CORNERS (MIN)	0.34	8.64	0.27	6.86
J. SCREW LENGTH (MAX)	1.35	34.30	0.80	20.30
K. HEX HEIGHT	0.14/0.25	3.56/6.35	0.140/0.185	3.56/4.70
L. SLOT DEPTH	0.077/0.120	1.96/3.05	0.052/0.105	1.32/2.67
M. SLOT WIDTH	0.056/0.076	1.42/1.93	0.042/0.060	1.07/1.52

*Type M-Mini clamps do not have collars (G) as standard. Dimensions may vary slightly by manufacturer

DURABILITY TORQUE

CLAMP TYPE	SCREW TYPE			
CLAMP TYPE -	CARBON STEEL	400 SERIES STAINLESS	300 SERIES STAINLESS	
TYPE F	50 IN-LB (5.6 Nm)	60 IN-LB (6.8 Nm)	60 IN-LB (6.8 Nm)	
TYPE M	20 IN-LB (2.3 Nm)	20 IN-LB (2.3 Nm)	15 IN-LB (1.7 Nm)	
ВВІ ТҮРЕ М*	26 IN-LB (3 Nm)	28 IN-LB (3.2 Nm)	30 IN-LB (3.4 Nm)	

INSTALLATION TORQUE

	SCREW TYPE			
CLAMP TYPE	CARBON STEEL (RANGE)	400 SERIES STAINLESS (RANGE)	300 SERIES STAINLESS (RANGE)	
TYPE F	25-35 IN-LB (2.8-4 Nm)	30-42 IN-LB (3.4-4.8 Nm)	30-42 IN-LB (3.4-4.8 Nm)	
TYPE M	10-14 IN-LB (1.1-1.6 Nm)	10-14 IN-LB (1.1-1.6 Nm)	7.5-10.5 IN-LB (0.9-1.1 Nm)	
BBI TYPE M*	13-18.2 IN-LB (1.5-2.1 Nm)	14-19.6 IN-LB (1.6-2.2 Nm)	15-21 IN-LB (1.7-2.4 Nm)	

*Note - The BBI Type M-Mini Clamps have a wider band than the industry standard - \sim 3/8" (0.35") vs 5/16" (0.312") - and has a higher torque rating which allows the clamp to withstand higher pressure.

MARKETS					
AUTOMOTIVE	MARINE	PLUMBING/HV	AC	IRRIGATION	RESIDENTIAL/DYI
VH1, VH2, VH3	VH2, VH3	VH1, VH2, VH3,	VH4	VH1, VH2, VH3	VH1, VH2, VH4
GARDEN	INDUSTRIAL/MRO			FOOD	MEDICAL
VH1. VH2	VH1.	VH1. VH2. VH3		VH2. VH3	VH2. VH3

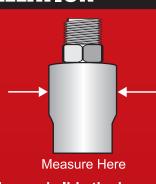
SAE J1508 TYPE M-MINI

~3/8" (.35") (9MM) WIDE BAND 1/4" HEX HEAD SCREW

SAE SIZE	CLAMPING RANGE (INCH)	CLAMPING RANGE (MM)
4M-MINI	5/16"-5/8"	8-16
6M-MINI	1/2"-7/8"	13-23
8M-MINI	1/2"-1"	13-25
10M-MINI	9/16"-1-1/16"	14-27
12M-MINI	11/16"-1-1/4"	17-32
16M-MINI	13/16"-1-1/2"	21-38

HOSE CLAMP INSTALLATION

- Measure the outside diameter of the hose or tube in the area where the hose fits over the fitting.
- 2 Select a clamp where the hose or tube diameter falls at the midpoint of the clamping range. Avoid choosing a clamp that is too large, to avoid a long extended tail when tightened.



- Remove the hose or tube from the fitting and slide the hose clamp on the hose before reattaching or fully open the clamp releasing the band from the screw housing and position the clamp on the hose and reengage the band.
- 4 Once the hose is securely fastened, place the clamp ~ 1/4" from the end of the hose.
- 5 Hand tighten the clamp with a screw driver or hex nut driver. Avoid overtightening. Overtightening can cause damage, failure or leakage. For critical applications use a torque wrench.

SAE J1508 TYPE F 1/2" (12.7MM) WIDE BAND

5/16" HEX HEAD SCREW

3/10 TIEX TIEAD SCILLAR				
SAE	CLAMPING	CLAMPING		
SIZE	RANGE (INCH)	RANGE (MM)		
6	1/2"-7/8"	13-23		
8	1/2"-1"	13-25		
10	9/16"-1-1/16"	14-27		
12	11/16"-1-1/4"	17-32		
16 (11/16)	11/16"-1-1/2"	17-38		
16 (13/16)	13/16"-1-1/2"	21-38		
20	13/16"-1-3/4"	21-44		
24	1"-2"	25-51		
28	1-1/4"-2-1/4"	32-57		
32	1-1/2"-2-1/2"	38-63		
36	1-3/4"-2-3/4"	44-70		
40	2"-3"	51-76		
44	2-1/4"-3-1/4"	57-82		
48	2-1/2"-3-1/2"	64-89		
52	2-3/4"-3-3/4"	70-95		
56	3"-4"	76-102		
60	3-1/4"-4-1/4"	82-108		
64	3-1/2"-4-1/2"	89-114		
72	4"-5"	102-127		
80	4-1/2"-5-1/2"	114-140		
88	5"-6"	127-152		
96	5-1/2"-6-1/2"	140-165		
104	6"-7"	152-178		
128	5-5/8"-8-1/2"	143-216		

The Family and Clamping Range are the same for both clamp types.

Type M-Mini clamps have a low profile housing and a narrow band making them ideal for applications in restricted spaces.