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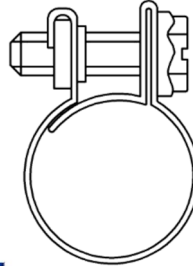


**SPECS &
INFORMATION**



JUBILEE® JUNIOR

These mini clips, also known as nut & bolt clips, are ideal for small bore hoses with relatively low pressures, where little clamping force is required. Used in low pressure applications such as a fuel line.



Mild Steel Zinc Plated:-

Part No.	Adjustment mm	Band Width mm	Band Thickness mm	Recommended Torque Nm	Maximum Torque Nm	Maximum Pressure PSI	Part No.
NB0709MS	7-9	9.1	0.6	1.5	2.0	75	NB0709MS
NB0810MS	8-10	9.1	0.6	1.5	2.0	75	NB0810MS
NB0911MS	9-11	9.1	0.6	1.5	2.0	75	NB0911MS
NB1012MS	10-12	9.1	0.6	1.5	2.0	50	NB1012MS
NB1113MS	11-13	9.1	0.6	1.5	2.0	50	NB1113MS
NB1214MS	12-14	9.1	0.6	1.5	2.0	50	NB1214MS
NB1315MS	13-15	9.1	0.6	1.5	2.0	50	NB1315MS
NB1416MS	14-16	9.1	0.6	1.5	2.0	50	NB1416MS
NB1517MS	15-17	9.1	0.6	1.5	2.0	50	NB1517MS
NB1618MS	16-18	9.1	0.6	1.5	2.0	50	NB1618MS
NB1820MS	18-20	9.1	0.6	1.5	2.0	50	NB1820MS

Corrosion Resistance: 72 hours NSS Test

Fastening: 7mm A/F screw

Industry Recommendations:-  

SAE INTERNATIONAL SAE J1508 Surface Vehicle Standards-Hose Clamp Specifications, Type D is referenced in the quality control methods for the design/manufacture of Jubilee Junior Range Clips.

Mild Steel Zinc Plated



304 Stainless Steel:-

Part No.	Adjustment mm	Band Width mm	Band Thickness mm	Recommended Torque Nm	Maximum Torque Nm	Maximum Pressure PSI	Part No.
NB0709SS	7-9	9.1	0.6	1.5	2.0	75	NB0709SS
NB0810SS	8-10	9.1	0.6	1.5	2.0	75	NB0810SS
NB0911SS	9-11	9.1	0.6	1.5	2.0	75	NB0911SS
NB1012SS	10-12	9.1	0.6	1.5	2.0	50	NB1012SS
NB1113SS	11-13	9.1	0.6	1.5	2.0	50	NB1113SS
NB1214SS	12-14	9.1	0.6	1.5	2.0	50	NB1214SS
NB1315SS	13-15	9.1	0.6	1.5	2.0	50	NB1315SS
NB1416SS	14-16	9.1	0.6	1.5	2.0	50	NB1416SS

Corrosion Resistance: 1000 hours NSS Test

Fastening: 7mm A/F screw

Industry Recommendations:- 

SAE INTERNATIONAL SAE J1508 Surface Vehicle Standards-Hose Clamp Specifications, Type D is referenced in the quality control methods for the design/manufacture of Jubilee Junior Range Clips.

304 Stainless Steel





HOSE CLIP

Selection Guide

www.jubileeclips.co.uk
www.uk.rs-online.com/web/b/jubilee

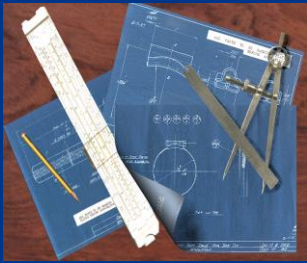
**The finest hose clip
in the world**





CHOOSING YOUR HOSE CLIP

Background



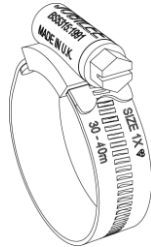
Jubilee® Clips were manufactured as the first worm drive hose clamp in 1921, the company held the first patent for worm drive hose clips and has been manufacturing hose clips in Great Britain ever since. The name Jubilee® Clip, remains a registered trademark throughout the world.

Jubilee® Clips offer a wide range of clamping solutions which are available at RS Components (shown opposite).

Types of Hose Clip

Original Range (Worm Drive Clips)

The Original Jubilee® Clip, the product that started it all! For the vast majority of applications this sturdy worm drive hose clip is more than suitable. Available as a mild steel zinc protected or stainless steel clamp in both 304 (18/8) and 316 (18/10) grades of stainless steel; this product also has a band that is continuously threaded enabling extra flexibility when adjusting the clip to the correct size. The smooth inside profile of the band and rolled edges give protection for all types of hoses including soft hoses made from rubber or silicone.

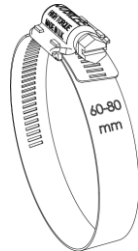


All our original Jubilee® Clips are independently tested by the British Standards Institute (BSi) and carry the British Standard Kitemark™, which is universally regarded as the most stringent standard there is for a hose clip. Both grades of stainless steel clips are also accredited by Lloyd's Register for marine use.

Industry Recommendations =     Stainless Steel 304 & 316 also:   

Jubilee High Torque (Heavy Duty Clip)

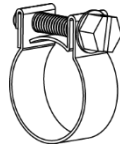
This stainless steel clip has twice the tightening torque the original British Standard worm drive hose clips which creates more than twice the band tension for stubborn leakage or vibration applications. They have a two part housing and cut through band, keeping the band straight at the point of engagement and fully engaging all of the screw thread; giving a superior tightening torque.



Industry Recommendations =       

Jubilee® Juniors (Mini Clips)

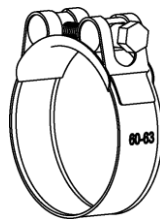
These mini clips, also known as nut & bolt clips, are ideal for small bore hoses with relatively low pressures, where little clamping force is required. Used in low pressure applications such as a fuel line. Adjusted by a single bolt.



Industry Recommendations =   Stainless Steel 304 also: 

Jubilee® Superclamps (Heavy Duty Clips)

A Heavy duty clamp, offering the highest tightening torques with 8.8 high tensile bolts allowing an impressive maximum recommended torque of 25Nm. Naturally with the smaller clamps using a smaller bolt the torques are lower, but even so, the torques are impressive by comparison to alternative clip types for the same size range. Suitable for a wide range of applications, including marine and offshore oil and gas installations.

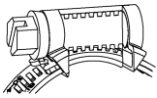


Industry Recommendations =     Stainless Steel 304 & 316 also:   



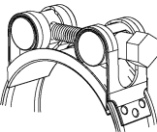
CHOOSING YOUR HOSE CLIP

Fastening Types



Worm Drive e.g. Jubilee Original Range

The screw in a worm drive hose clip adjusts the diameter of the clip to suit the size of hose it secures and is directly engaged with the band.



Nut & Bolt e.g. Jubilee Juniors & Jubilee Superclamps

Here the bolt used to adjust the diameter of the clip is not engaged in the band, instead it is connected to a nut or trunnion.



Pinch

No screws or bolts are used for this type of clip; the adjustment is performed by permanently deforming (crimping) 'ears' on the clip using a special tool.

Industry Standards



BS5315-1991
KM06246

BS5315:1991

The British Standard for the manufacture of hose clamps (worm drive type) for general purpose use (metric series). It is the only standard that uses a pressure test and is universally regarded as the most stringent Standard for a hose clip in the world. To carry the Kitemark™ the clips must also pass independent testing.



Lloyd's Type Approved

A Type Approval from Lloyd's Register (LR), a marine classification society, demonstrates that the product conforms to recognised industry quality standards, International Conventions and/or the LR Rules, through a process of independent design review, sample testing and verification of production controls. Essential for products used in marine applications.



DIN 3017

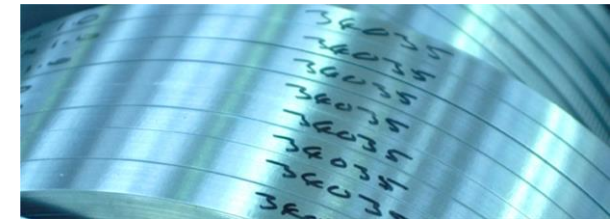
DIN 3017-1 is a dimensional norm for hose clips type: worm drive by the Deutsches Institut für Normung e.V. (German Institute for Standardization).



SAE

SAE Standard J1508 is an American standard and covers 32 types of hose clips (clamps) most commonly and suitably being used on coolant, fuel, oil, vacuum, and emission systems, describing the basic characteristics and minimum performance requirements recommended.

Hose Clip Materials



W1 (Mild Steel Zinc Protected/Zinc Plated)

All parts of the clip are mild steel zinc protected/plated which is the most common material for hose clips. Mild steel (also known as carbon steel) has a low to moderate natural resistance to corrosion which is overcome by coating with zinc. Corrosion resistance even with zinc coating is lower than 304 & 316 grades of stainless steel.

W4 (304 Grade Stainless Steel / A2 / 18/8)

All component parts of the hose clip are 304 grade. The clips have a higher corrosion resistance, making them suitable for outdoor applications as well as having good general corrosion resistance to slightly acidic as well as caustic media. 304 grade stainless steel is also known as 18/8 stainless due to its chemical composition which includes approximately 18% chromium and 8% nickel by weight. This material is magnetic.

W5 (316 Grade Stainless Steel / A4)

All parts of the hose clips are 316 "marine grade" stainless steel, offering an even higher corrosion resistance than 304 grade in most acidic conditions, especially at higher temperatures and or with chlorides present. Suitable for marine, offshore and food industries.

316 grade stainless steel is known as 18/10 stainless or High Nickel Stainless Steel (HNSS) due to the increased percentage of 10% nickel in the alloy's chemical composition. Non-magnetic.

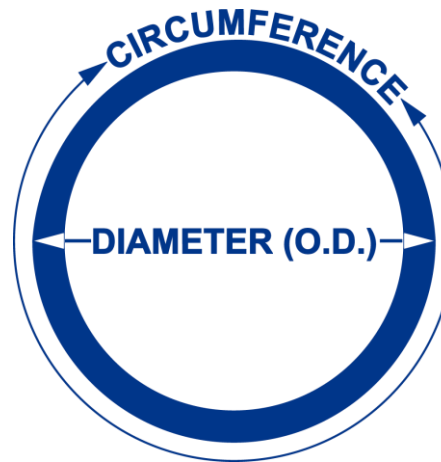


How to select the correct size hose clip for your application?

1. Obtain the outside diameter (O.D.) of your hose ensuring that the hose is assembled on the pipe or tube fitting for accurate measurement.
 - a. Measure the outside diameter (O.D.) of the hose & fitting using a caliper.

OR

 - b. Measure the circumference of the hose and then calculate the diameter using the formula below:

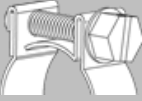




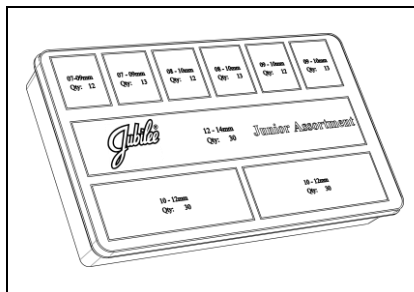
$$\text{Outside Diameter (O.D.)} = \text{Circumference (C)} \div 3.1416 (\text{Pi})$$

2. Select hose clip size remembering that hose clip sizes always refer to the diameter.
3. Aim to select a clip with the hose diameter matching the middle of the clip's adjustment range

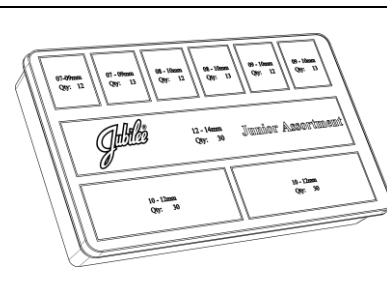


JUBILEE JUNIORS – MINI CLIPS

Adjustment mm	Material				Fastening Type 	Screw mm	Band Width mm	Band Thickness mm	Recommended Torque Nm	Maximum Torque Nm	Maximum Pressure Psi
	BZP / MS / W1		304 / A2 / W4								
	Jubilee Part No	RS Part No.	Jubilee Part No	RS Part No.							
											
07-09	NB0709MS	9089046	NB0709SS	9089181	Nut & Bolt	Slotted Hex Head 7mm A/F	9.1	0.6	1.5	2	75
08-10	NB0810MS	9089049	NB0810SS	9089184	Nut & Bolt	Slotted Hex Head 7mm A/F	9.1	0.6	1.5	2	75
09-11	NB0911MS	9089043	NB0911SS	9089188	Nut & Bolt	Slotted Hex Head 7mm A/F	9.1	0.6	1.5	2	75
10-12	NB1012MS	9089052	NB1012SS	9089197	Nut & Bolt	Slotted Hex Head 7mm A/F	9.1	0.6	1.5	2	50
11-13	NB1113MS	9089055	NB1113SS	9089190	Nut & Bolt	Slotted Hex Head 7mm A/F	9.1	0.6	1.5	2	50
12-14	NB1214MS	9089059	NB1214SS	9089194	Nut & Bolt	Slotted Hex Head 7mm A/F	9.1	0.6	1.5	2	50
13-15	NB1315MS	9089068	NB1315SS	9089204	Nut & Bolt	Slotted Hex Head 7mm A/F	9.1	0.6	1.5	2	50
14-16	NB1416MS	9089061	NB1416SS	9089207	Nut & Bolt	Slotted Hex Head 7mm A/F	9.1	0.6	1.5	2	50
15-17	NB1517MS	9089065			Nut & Bolt	Slotted Hex Head 7mm A/F	9.1	0.6	1.5	2	50
16-18	NB1618MS	9089074			Nut & Bolt	Slotted Hex Head 7mm A/F	9.1	0.6	1.5	2	50
18-20	NB1820MS	9089077			Nut & Bolt	Slotted Hex Head 7mm A/F	9.1	0.6	1.5	2	50



Jubilee Junior Assortment Pack
Mild Steel
165 Jubilee Junior clips
Manuf. Code: JA165MS
RS Code: 9089083



Jubilee Junior Assortment Pack
304 Stainless Steel
165 Jubilee Junior clips
Manuf. Code: JA165SS
RS Code:



Jubilee Junior Pocket Pack
Mild Steel
54 Jubilee Junior clips
Manuf. Code: PPJMS
RS Code: 9089099



Jubilee Junior Pocket Pack
304 Stainless Steel
54 Jubilee Junior clips
Manuf. Code: PPJSS
RS Code: 9089093



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