SERIES 89, 90, 91, 92, 96 & 97

Introduction

Peg Type Retaining Pins (Series 89, 90, 91, and 92) are an easily fitted, and easily removed, Spring Steel wire retention device for shaft mounted items. They rely on their inherent spring force to maintain their installed position inserted diametrically through the shaft, and are sometimes referred to as Hair Pin Cotters, or "R" Pins.

There are many special variants to suit specific applications, including such shapes as square top leg and truncated designs. Pins having a double coil (Series 90) can be affixed to a host assembly by chain or lanyard, to avoid loss, owing to the complete ring form.

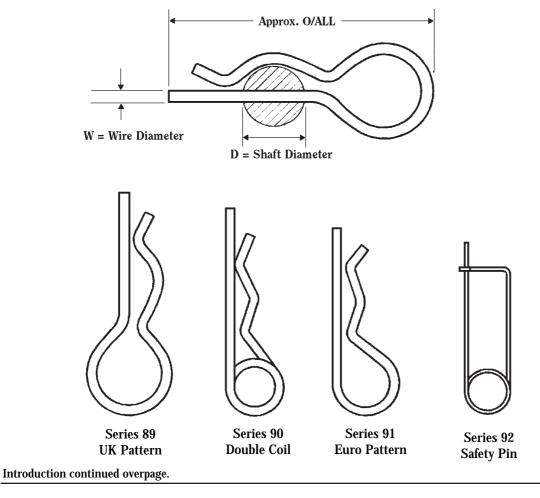
The Safety Pin Type (Series 92) is, as the name implies, a safety method of locking the pin to the larger diameter shafts, and also accommodates a wider variety of fitment applications. Because of this components adjustability to its purpose, we have been able to offer Metric dimensions only, but these cover Inch requirements in their entirety.

SIZES AND DESCRIPTION

We describe size by Series No., Shaft fitment dia, Wire dia.,

- e.g. Series 89, Shaft dia 7 11mm (this is the diameter of shaft upon which we feel, the pin will comfortably fit, though fit is affected by the hole diameter that has been made). Wire diameter (this is the diameter of wire from which the pin is made).
 - ... Series 89 7 11 x 1.2 would be Type 89 fitting shaft dia's 7 11mm, made from 1.2 dia wire.

As a guide to use, the hole is normally drilled 10% larger than the nominal wire size of the pin.



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SERIES 89, 90, 91, 92, 96 & 97 Continued

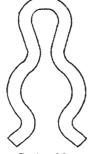
Introduction Cont'd

Retaining Pins - Clamp Type are inexpensive, easy to attach and remove, Spring Steel Wire retention or location devices, similar in application to the Peg Type on previous page.

They are shaft mounted and located by a circumferential groove, and can be fitted and removed externally, or within a housing with an appropriate small radial clearance.

Clamp Type Retaining Pins are extensively used on shaft assemblies where location only is required, or where light axial loads have to be restrained. No special assembly tooling is required, and the clips are suitable for volume production.

Two popular forms are Series 96 & 97

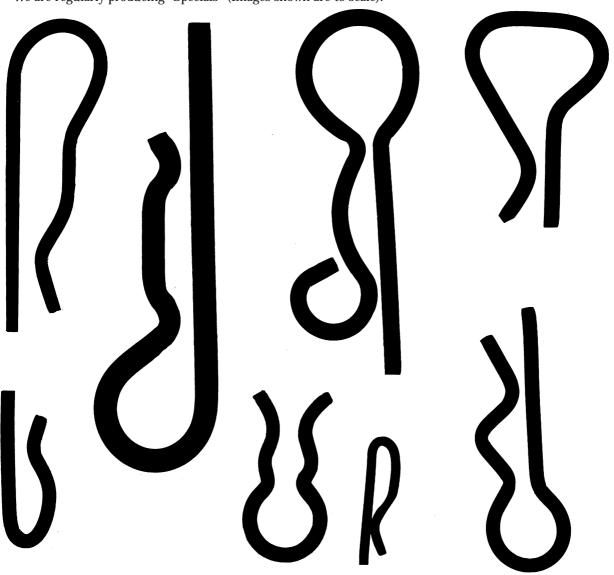


Series 96

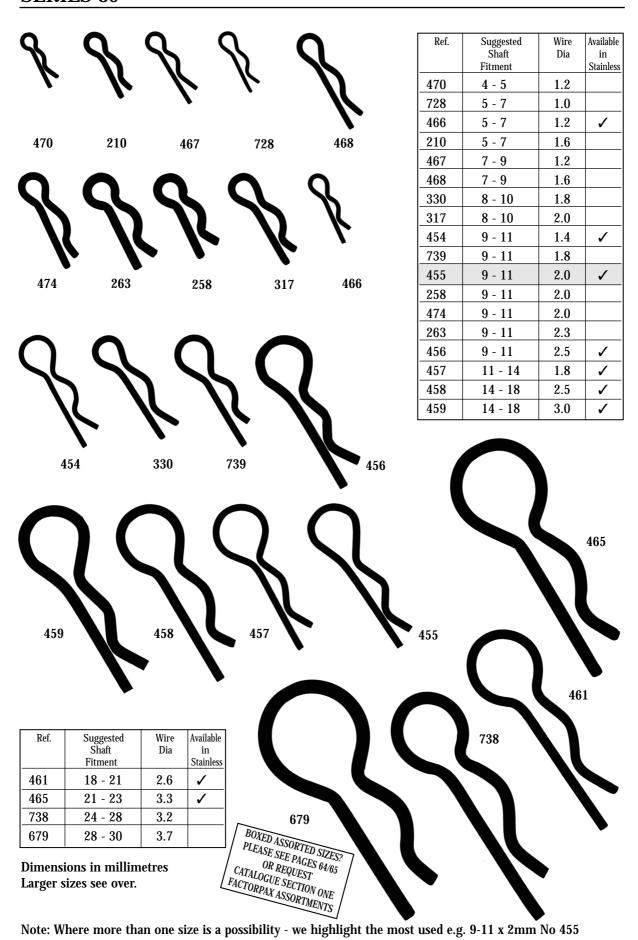


Series 97

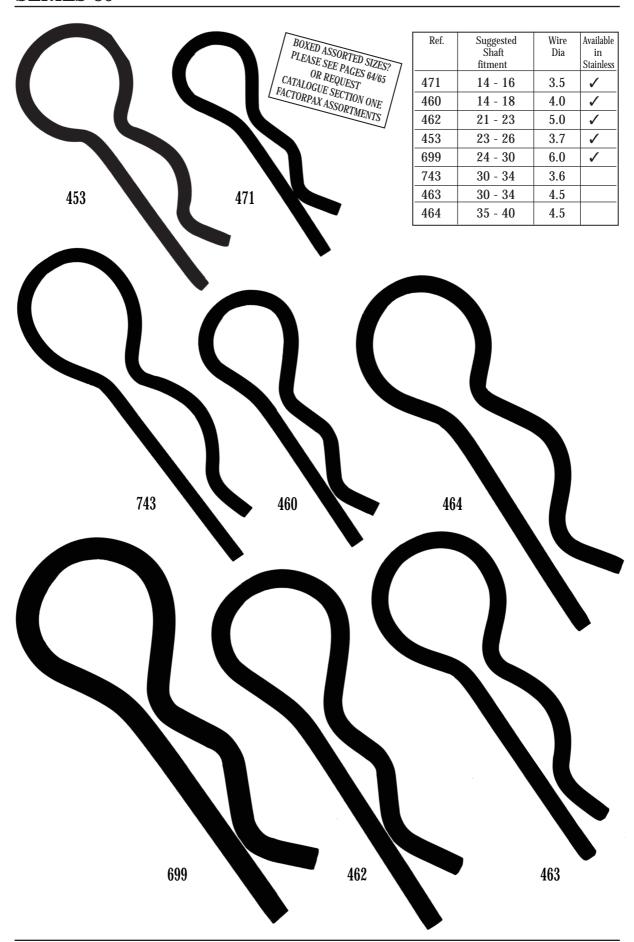
We are regularly producing "Specials" (Images shown are to scale).



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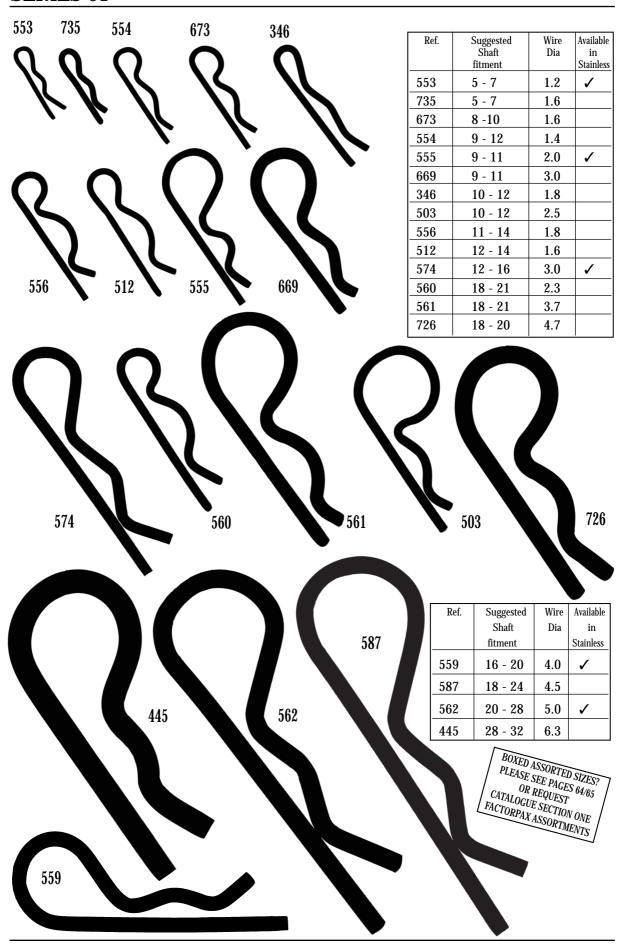


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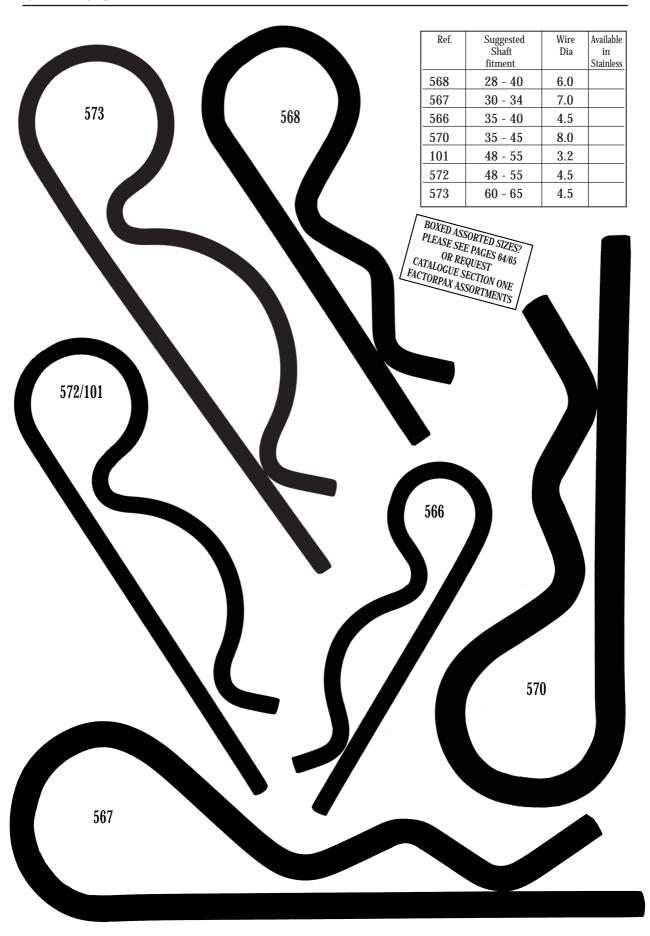
SERIES 91



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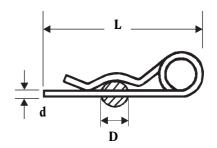
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SERIES 90 & 92

SERIES 90 DOUBLE COIL PIN

Has significant advantage

- 1. Because the double coil produces a complete ring it is much safer to attach a lanyard.
- 2. The Double Coil increases its elasticity and so gives wider size coverage.



Standard Material is High Carbon Steel with Zinc Plate Finish. Stainless Steel is to special order only.

SERIES 90 - DOUBLE COIL							
D	W	L	kg/100	Box Qty			
8 - 14	2.0	52	.46				
10 - 16	2.5	52	.70				
14 - 20	3.0	74	1.24	100			
17 - 24	4.0	96	2.68				
18 - 30	5.0	118	3.42				
24 - 36	6.0	140	7.72				
26 - 40	7.0	162	14.26	50			
28 - 40	8.0	168	18.67				

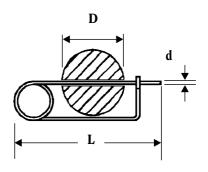
Dimension 'L' is for guidance only.



SERIES 92 SAFETY PIN

This is a sound engineering catch-all. Can be fitted through all shapes & Sizes and you know it is going to hold.

SERIES 92 - SAFETY PIN							
D	W	L	kg/100	Box Qty			
20	1.6	38	.52				
20	2.0	40	.76				
30	2.0	55	.79	100			
30	2.6	58	1.21				
40	2.6	68	1.61				
40	3.3	77	2.26				
50	4.5	98	3.87	50			
60	5.0	115	6.82				



Standard material is High Carbon Steel with Zinc Plated Finish.

Some sizes available in Stainless.

Stock Range is being broadened please enquire.

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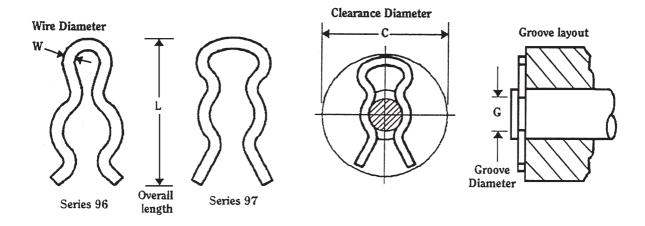
SERIES 96 & 97

INTRODUCTION

Clamp Type Retaining Pins are an inexpensive, easy to install and remove, Spring Steel Wire retention or location device. They are related to the "Peg Type" range as generally referred to below. No special assembly or removal Tooling is required, and radial clearance from the location groove position is the only other element to note.

DIMENSIONS AND SPECIFICATION

Specification is by Series, Groove Diameter and Wire diameter e.g. Series 96 0.440 x 0.056 Dimensions and weights are tabulated below.



DIMENSIONS INCHES & WEIGHTS - SERIES 96 & 97

G	W	L	С	Series	Kg/100	Finish	Box Qty
0.080	0.022	0.41	0.43	A96	.01	Blued	
0.135	0.036	0.47	0.49	A97	.01	Bzp	
0.170	0.036	0.50	0.52	A97	.01	Phos	1000
0.195	0.040	0.52	0.36	A97	.02	Bzp	
0.300	0.056	0.93	0.89	A97	.03	Bzp	
0.390	0.056	0.85	0.95	A96	.06	Bzp	
0.500	0.064	1.13	1.26	A96	.12	Blued	500
0.500	0.120	1.72	1.86	A96	.60	Phos	250
0.781	0.125	2.06	2.30	A96	.90	Bzp	100

RETAINING PINS (ALL)

SERIES 89, 90, 91, 92, 96, 97



STANDARDS

There is very little by way of National Standards for this series of product. DIN 11024 does start to address a few of the popular sizes, but our own Factory Standards are the basis for most output.

MATERIAL AND FINISH

Either High Carbon Spring Steel, generally Zinc Plated, or Stainless Steel.

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