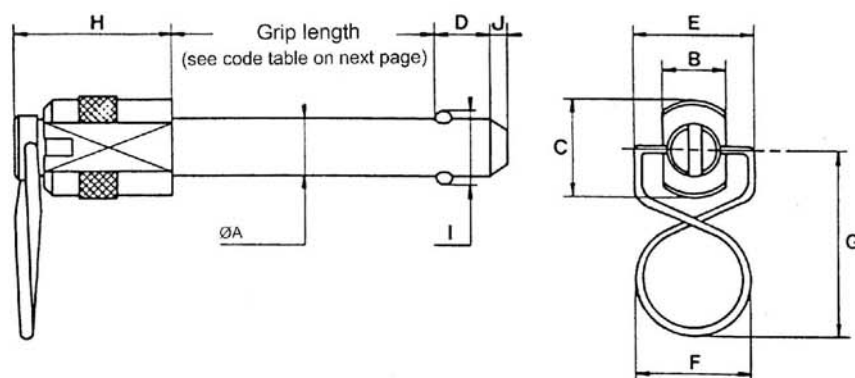




Ball Lock Pins 89 Series

Steel double-acting ball lock pin.
Positive locking until released by pulling or pushing the plunger to allow the locking balls to retract.

STOCK ITEM



QUICK RELEASE PIN MATERIAL CODES		
COMPONENTS	MATERIAL	FINISH
Body and plunger	ETG 100 - 44 SMn28	Zinc plated 7µ
Ring	AISI 316L	None
Balls	AISI 440 C	None

89 Series (dimensions in mm)

Code	Nominal Diameter		ØA		B	C	D	E	F	G	H Min	I Max	J	Ø Ball	Single Shear Strength daN
	Inch	mm	Max	Min											
04	1/4	6.4	6.31	6.27	9.27	11.00	7.40	16.00	24.00	33.00	18.30	7.40	3.0	2.0	1450
05	5/16	7.9	7.90	7.86	11.30	12.70	8.90	16.00	24.00	33.00	19.80	9.45	3.0	3.0	2433
06	3/8	9.5	9.49	9.45	13.34	15.85	10.20	21.90	25.20	35.30	21.80	11.20	3.0	3.5	3536
07	7/16	11.1	11.07	11.04	13.34	15.85	10.20	21.90	25.20	35.30	21.80	13.00	3.0	4.4	4804
08	1/2	12.7	12.66	12.62	18.03	20.65	12.30	26.40	25.20	38.35	23.60	15.30	3.0	4.4	6405
09	9/16	14.3	14.25	14.21	18.03	20.65	12.70	26.40	25.20	38.35	25.10	17.10	4.6	4.8	8140
10	5/8	15.9	15.84	15.80	23.37	25.40	14.30	33.60	29.00	45.20	27.40	19.20	4.6	5.6	10053
12	3/4	19.0	19.01	18.97	23.37	25.40	15.80	33.60	29.00	45.20	30.50	22.50	4.6	6.7	14545
14	7/8	22.2	22.19	22.15	27.94	31.75	19.10	38.10	29.00	48.00	33.80	26.50	4.6	8.7	20106
16	1	25.4	25.36	25.32	27.94	31.75	22.90	38.10	29.00	48.00	38.10	31.00	4.6	10.3	25977

Note: The diameter code represents the diameter expressed in 1/16th of an inch (1.59mm)

89 Series Double Action Pins



Ball Lock Pins 89 Series cont'd

A part number example:

Base reference _____ 89 06 19

Diameter in 1/16 inch _____
(see code table on previous page)

Grip length code _____
(see note below)

Grip Length Code	Grip Length inches	Grip Length mm	Diameter Code				
			04	05	06	07	08
03	0.3	7.60	x				
04	0.4	10.20					
05	0.5	12.70	x		x		
06	0.6	15.20	x	x			
07	0.7	17.80	x		x		
08	0.8	20.30	x	x		x	
09	0.9	22.90	x		x		x
10	1.0	25.40	x	x		x	
11	1.1	27.90	x		x		x
12	1.2	30.50	x	x		x	
13	1.3	33.00	x		x		x
14	1.4	35.60		x		x	
15	1.5	38.10	x		x		x
16	1.6	40.60		x		x	
17	1.7	43.20	x		x		x
18	1.8	45.70	x	x	x	x	
19	1.9	48.30	x		x		x
20	2.0	50.80	x	x		x	
21	2.1	53.30	x		x		x
22	2.2	55.90	x	x			
23	2.3	58.40	x		x		x
24	2.4	61.00				x	
25	2.5	63.50	x				x
26	2.6	66.00			x		
27	2.7	68.50			x		x
28	2.8	71.10			x		
29	2.9	73.70					
30	3.0	76.20			x		
33	3.3	83.80					x
35	3.5	88.90					
40	4.0	101.60					

Note: The grip length code represents the grip length expressed in 1/10th of an inch (2.54mm)

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