

# 670, 675, 690, 695 SERIES

## Straight Line Action Clamps | Product Overview

### Features:

- Precision clamping for high production
- Adjustable collet-type bushing minimizes radial plunger movement
- Plunger has a flat surface for anti rotation
- Pre-load nut and hold open device included

### Applications:

- Assembly
- Welding

670-1MBPLS



675-1MBPLS



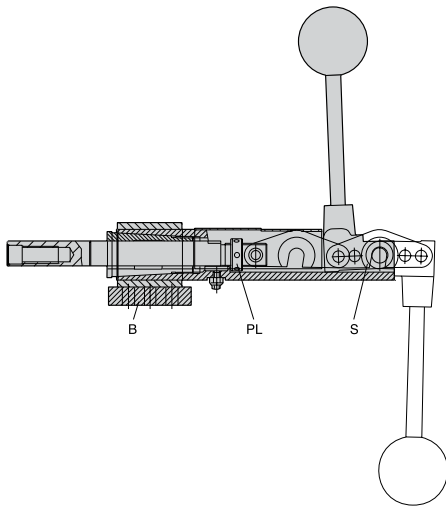
690-1MBPLS



695-1MBPLS ⓘ



## Series 670, 675, 690, 695 Technical Information | Holding Capacities



Model	Max. Holding Capacity	Weight	Plunger Travel	Plunger Thread
670-1MBPLS	[2400 lbf] 10680 N	[4.2lb] 1,91 kg	[2.25] 57,2	M12
675-1MBPLS		[4.0lb] 1,81 kg	[1.10] 28	
690-1MBPLS	[5000 lbf] 22240 N	[8.2lb] 3,72 kg	[3.00] 76,2	M16
695-1MBPLS ⓘ		[7.2lb] 3,27 kg	[1.50] 38,1	

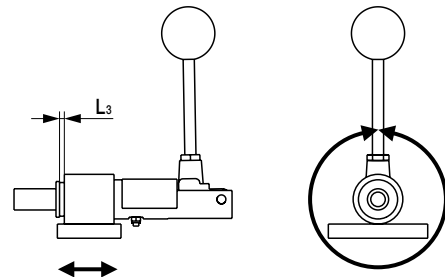
ⓘ This item is available upon request

The unique feature of these clamps is the collet-type bushing that can be adjusted to eliminate plunger end movement after long repeated use. The plunger also has a flat which prevents lateral movement and allows offset piloting and holding. The plunger is drilled and tapped for threaded spindles or custom fixturing.

The adjustable pre-load nut (PL) can be used to lock the clamp against itself when not under pressure and therefore prevent opening when mounted vertically. The spring hold-open device (S) prevents the clamp from accidentally closing.

The mounting base (B) is supplied disassembled with the four models, to enable welding the base and the main assembly in any handle position.

Series 675 and 695 (shorter stroke) reach the over-center position only when clamping. Series 670 and 690 (longer stroke) lock in both the extended and retracted position.

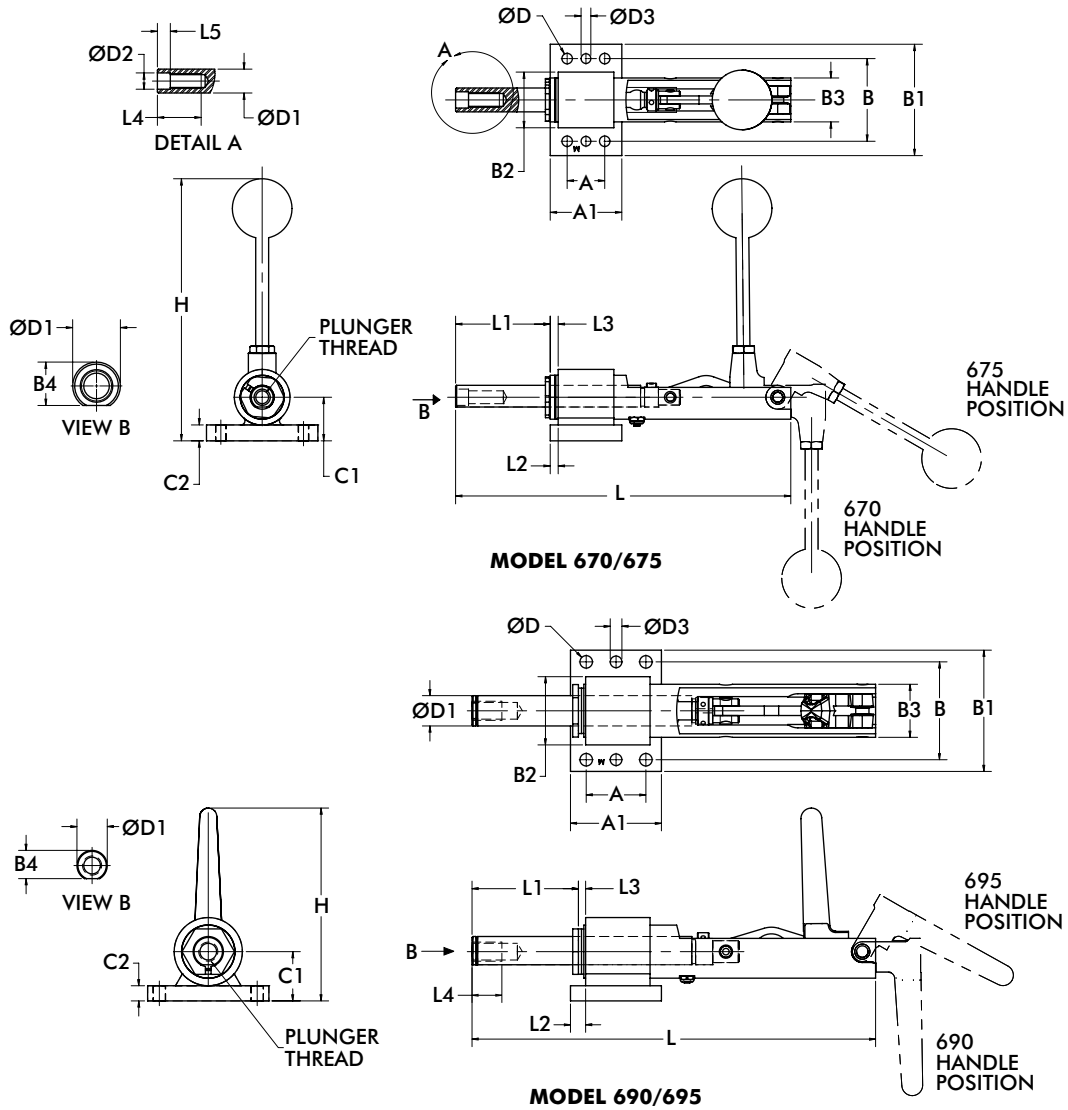


Welding range  $L_3$  axial  
0-8mm [0-0.31in.]

Welding range  
radial 360°

# 670, 675, 690, 695 SERIES

## Straight Line Action Clamps | Dimensions



Model	A	A1	B	B1	B2	B3	B4	C1	C2	D	D1	D2H7	D3
670-1MBPLS	[1.18]	[2.24]	[2.60]	[3.50]	[1.75]	[1.38]	[0.68]	[1.37]	[0.50]	[0.33]	[0.75]	[0.51]	[0.31]
675-1MBPLS	30	57	66	89	44,5	35	17,3	34,8	12,7	8,4	19	13	7,8
690-1MBPLS	[1.97]	[3.00]	[3.23]	[4.00]	[2.25]	[1.75]	[0.93]	[1.63]	[0.50]	[0.41]	[1.00]	--	[0.39]
695-1MBPLS	50	76,2	82	101,6	57,2	44,4	23,7	41,3	12,7	10,5	25,4	--	9,8

Model	H	L	L1	L2	L3	L4	L5
670-1MBPLS	[8.11]	[10.55]	[2.97]	[0.25]	[0-0.31]	[1.38]	[0.41]
675-1MBPLS	206	[7.68]	[1.74]	6,4	0-8	35	10,3
690-1MBPLS	[6.37]	[13.31]	[3.69]	[0.50]	[0-0.31]	[0.98]	--
695-1MBPLS	162	[9.45]	[2.25]	[0.38]	0-8	25	--

# FO, FL, G SERIES

## Variable Stroke Straight Line Action Clamps | Product Overview

### FO Series

#### Type of Mounting:

- Foot mount

#### Type of Actuation:

- Hand wheel or hand lever (one-handed operation)
- Locking lever and Plunger (two-handed operation)



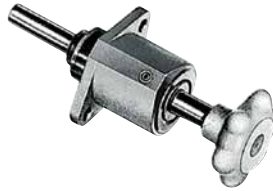
### FL Series

#### Type of Mounting:

- Flange mount

#### Type of Actuation:

- Locking lever or hand wheel (one-handed operation)
- Locking lever and Plunger (two-handed operation)



### G Series

#### Type of Mounting:






- Through hole mount

#### Type of Actuation:

- Locking lever and Plunger (two-handed operation)
- Hand wheel or hand lever (one-handed operation)



## Technical Information

		Model	Holding Capacity Max. [lbs] N	Page MC-VSC-#	Accessories	Model	Page MC-VSC-#
Flanged base		<b>FO-082-40</b>	[335] 1500	3	Plunger	<b>12/100</b>	4
		<b>FO-120</b>	[675] 3000			<b>12/200</b>	
		<b>FO-121-45</b>	[675] 3000		<b>12/300</b>		
		<b>FO-122-45</b>	[675] 3000		<b>16/100</b>		
		<b>FO-160</b>	[2020] 9000		<b>16/200</b>		
		<b>FO-161-60</b>	[2020] 9000		<b>16/300</b>		
		<b>FO-162-60</b>	[2020] 9000		<b>16/400</b>		
		<b>FO-220</b>	[4045] 18000		<b>16/500</b>		
		<b>FO-221-80</b>	[4045] 18000		<b>22/100</b>		
					<b>22/200</b>		
				<b>22/300</b>			
Front flange		<b>FL-120</b>	[675] 3000	3	Swivel thrust pad	<b>K508</b>	7
		<b>FL-121-45</b>	[675] 3000			<b>K612</b>	
		<b>FL-122-45</b>	[675] 3000	<b>K816</b>			
		<b>FL-160</b>	[2020] 9000	<b>K1222</b>			
		<b>FL-161-60</b>	[2020] 9000				
		<b>FL-162-60</b>	[2020] 9000				
Threaded mount		<b>G-082-40</b>	[335] 1500	3			
		<b>G-120</b>	[675] 3000				
		<b>G-121-45</b>	[675] 3000				
		<b>G-122-45</b>	[675] 3000				
		<b>F-160</b>	[4,040] 18000				