

89B SERIES

Pneumatic Swing Clamps | Product Overview

Features:

- Lightweight and robust, designed for several millions cycles
- Can be mounted from the side or the top
- Sensor ready for T-slot style sensors
- Metric design
- Clamp arm sold separately

Applications:

- Assembly
- Welding
- Light machining

Also Available:

See page MC-PSC-15 for clamping arms
See page MC-PSC-38 for sensing options

Series 89B



Technical Information

Model	Swing Direction	Total Stroke [in]mm S	Stroke During Rotation [in]mm S1	Vertical Clamp Stroke [in]mm S2	Clamping Force [lbf.] N†	Bore Size mm[in]	Air Consumption‡ [ft³]dm³	Weight [lb.]kg	Replacement Seal Kit
89B20-010-2R	RH	[0.79]	[0.39]	[0.39]	[29]	[0.79]	[0.003]	[1.46]	89B/E20-2-00
89B20-010-2L	LH	20	10		130	20	0,08	0,66	
89B32-010-2R	RH	[0.83]	[0.43]	[0.39]	[79]	[1.25]	[0.008]	[2.25]	89B/E32-2-00
89B32-010-2L	LH	21	11		350	32	0,22	1,02	
89B40-010-2R	RH	[0.94]	[0.55]	[0.98]	[130]	[1.57]	[0.014]	[3.17]	89B/E40-2-00
89B40-010-2L	LH	24	14		580	40	0,39	1,44	
89B50-025-2R	RH	[1.57]	[0.59]	[0.98]	[225]	[1.97]	[0.036]	[5.95]	89B/E50-2-00
89B50-025-2L	LH	40	15		1000	50	1,03	2,70	
89B63-008-2R	RH	[1.02]	[0.71]	[0.32]	[321]	[2.48]	[0.038]	[6.39]	89B/E63-2-00
89B63-008-2L	LH	26	18		1430	63	1,08	2,90	

† with standard clamping arm at 6bar [87psi]. ‡ per double stroke at 6bar [87psi]

Operating Pressure Range: 3bar [45psig] to 6bar [87psig]

Maximum Operating Temperature: 80°C [176°F]

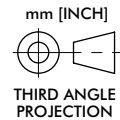
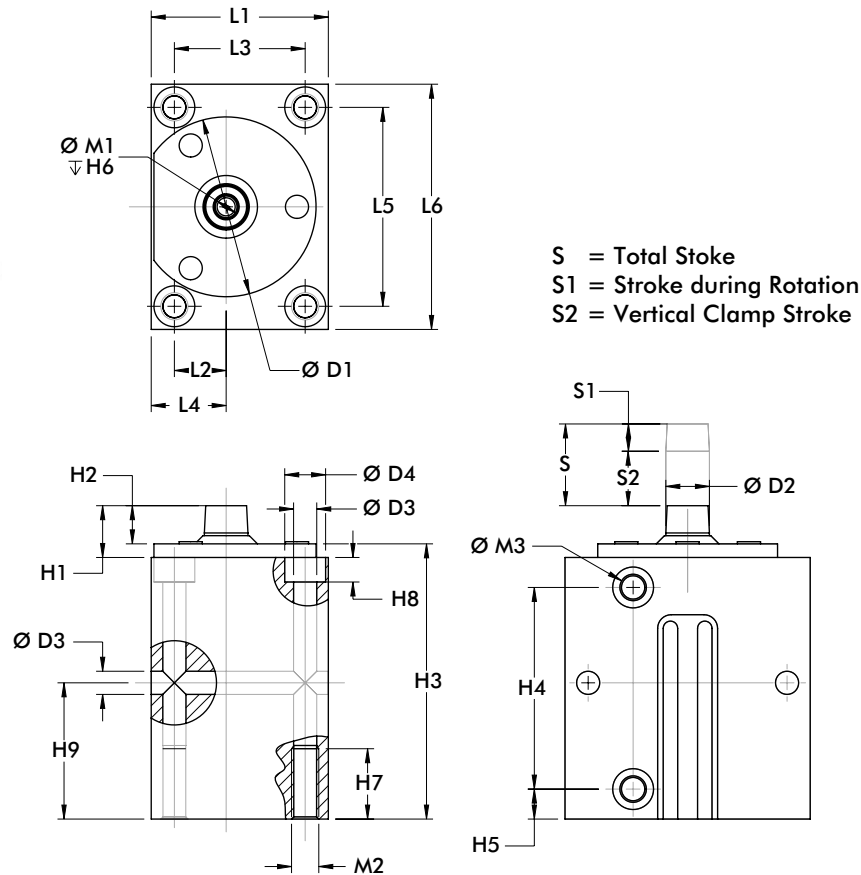
Note:

Switches are optional. To order clamp with (2) 8EA-109-1 switches, add **A** to the end of the model.

EX. 89B30-010-2R**A**. See page MC-PSC-36 for additional switch options.

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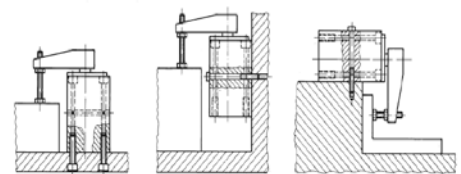
Pneumatic Swing Clamps | Dimensions



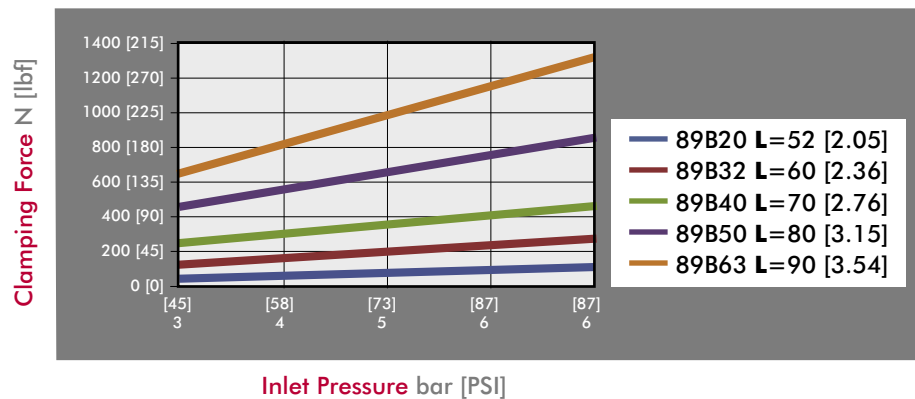
Model	ØD1	ØD2	ØD3	D4	H1	H2	H3	H4	H5	H6	H7	H8	H9	L1
89B20	[1.89] 48	[0.39] 10	[0.26] 6,6	[0.43] 11	[0.69] 17,5	[0.35] 9	[3.48] 88.5	[2.28] 58	[0.35] 9	[0.59] 15	[0.79] 20	[0.28] 7	[1.57] 40	[1.77] 45
89B32	[2.20] 56	[0.47] 12	[0.33] 8,5	[0.59] 15	[0.63] 16	[0.43] 11	[3.70] 94	[2.72] 69	[0.39] 10	[0.67] 17	[0.98] 25	[0.35] 9	[1.77] 45	[2.17] 55
89B40	[2.60] 66	[0.63] 16	[0.41] 10,5	[0.71] 18	[0.75] 19	[0.55] 14	[3.98] 101	[2.91] 74	[0.43] 11	[0.98] 25	[1.18] 30	[0.43] 11	[1.97] 50	[2.56] 65
89B50	[3.07] 78	[0.71] 18	[0.41] 10,5	[0.71] 18	[0.98] 25	[0.67] 17	[5.51] 140	[4.29] 109	[0.43] 11	[0.98] 25	[1.18] 30	[0.43] 11	[2.76] 70	[2.95] 75
89B63	[3.70] 94	[0.79] 20	[0.41] 10,5	[0.71] 18	[1.06] 27	[0.75] 19	[4.53] 115	[3.35] 85	[0.43] 11	[0.98] 25	[1.18] 30	[0.43] 11	[2.16] 55	[3.54] 90

Model	L2	L3	L4	L5	L6	M1	M2	M3
89B20	[0.45] 11,5	[1.18] 30	[0.75] 19	[2.36] 60	[2.95] 75	M5	M8	M5
89B32	[0.55] 14	[1.50] 38	[0.89] 22,5	[2.68] 68	[3.35] 85	M6	M10	G-1/8
89B40	[0.75] 19	[1.89] 48	[1.08] 27,5	[2.87] 73	[3.54] 90	M8	M10	G-1/8
89B50	[0.94] 24	[2.17] 55	[1.34] 34	[3.54] 90	[4.33] 110	M10	M12	G-1/4
89B63	[1.18] 30	[2.76] 70	[1.57] 40	[3.94] 100	[4.72] 120	M10	M12	G-1/4

Mounting Options



Series 89B Clamping Force (w/ standard clamping arm)

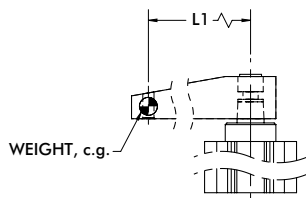


Guidelines

DESTACO Pneumatic Swing Clamps are designed for long life when using standard clamping arms and spindles. In the event that a longer arm or additional weight is needed, please consult these charts for the allowable weight and length.

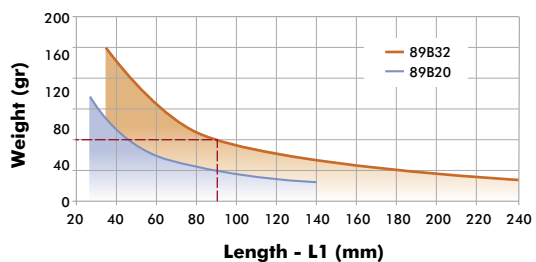
Example: 89B32

At a weight of 80 gr, the maximum length of the arm is approximately 90mm.

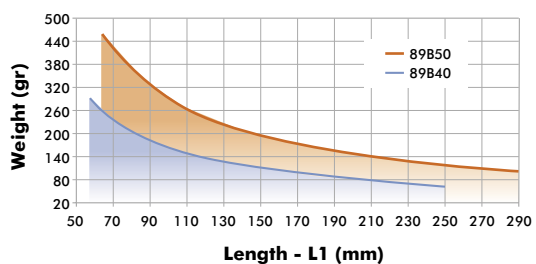


All data refers to an operating pressure of 5 bar [72psi] and an opening and closing time of 1 second.

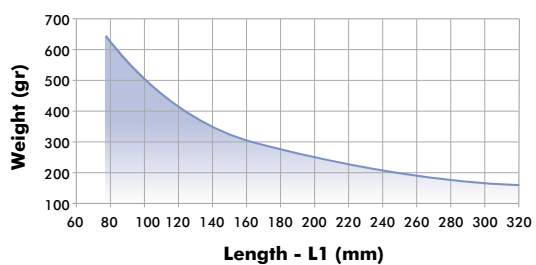
89B20 & 89B32 Clamp Arm Weight



89B40 & 89B50 Clamp Arm Weight



89B63 Clamp Arm Weight

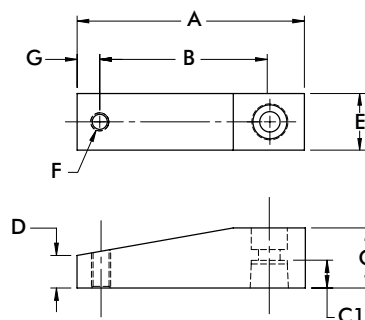


89B SERIES

Pneumatic Swing Clamps | Clamping Arm

Features:

- Lightweight aluminum construction
- Locking tapered connection for 360 deg. arm positioning

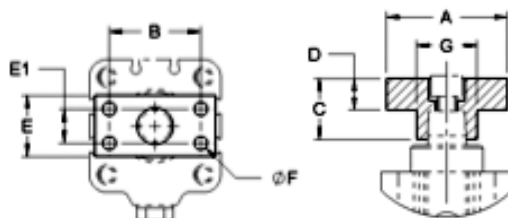
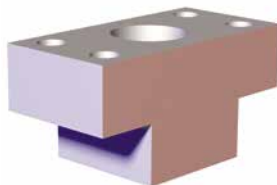


Part Number	Used with Model	A	B	C	C1	D	E	F	G	Weight [lbs] kg
8JG-215-1	89B20-010-2	[2.64] 67	[2.05] 52	[0.59] 15	[0.33] 8,5	[0.33] 8,5	[0.59] 15	M6	[0.28] 7	[0.08] 0,04
8JG-217-1	89B32-010-2	[3.15] 80	[2.36] 60	[0.79] 20	[0.37] 9,5		[0.79] 20	M8	[0.39] 10	[0.14] 0,06
8JG-218-1	89B40-010-2	[3.74] 95	[2.76] 70	[0.98] 25	[0.45] 11,5	[0.55] 14	[0.98] 25			[0.28] 0,13
8JG-219-1	89B50-025-2	[4.17] 106	[3.15] 80	[1.18] 30	[0.59] 15	[0.57] 14,5	[1.18] 30			[0.42] 0,19
8JG-220-1	89B63-008-2	[4.72] 120	[3.54] 90	[1.38] 35	[0.67] 17	[0.67] 17	[1.38] 35	M10	[0.47] 12	[0.66] 0,30

Clamping Arm Adapters

Features:

- For attaching custom made clamp arms
- 360° rotatable arm
- Aluminum construction



Part Number	Used with Model	A	B	C	D	E	E1	F	Weight [lbs] kg
8MA-084-1	89B20-010-2	[1.57] 40	[1.10] 28	[0.59] 15	[0.32] 8	[0.59] 15	--	[0.22] 5,5 (2x)	[0.03] 0,014
8MA-086-1	89B32-010-2	[1.97] 50	[1.38] 35	[0.79] 20	[0.43] 11	[0.79] 20			[0.08] 0,035
8MA-087-1	89B40-010-2		[1.50] 38	[0.98] 25	[0.51] 13	[0.98] 25	[0.55] 14	[0.22] 5,5 (4x)	[0.11] 0,050
8MA-088-1	89B50-025-2	[2.36] 60	[1.77] 45	[1.18] 30	[0.59] 15	[1.18] 30	[0.59] 15	[0.28] 7 (4x)	[0.19] 0,085
8MA-089-1	89B63-008-2	[2.56] 65	[1.89] 48	[1.38] 35	[0.67] 17	[1.38] 35	[0.71] 18	[0.35] 9 (4x)	[0.28] 0,125

PNEUMATIC SWING CLAMPS

Notes

[illegible]