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-17 for clamping arms
See page MC-PSC-40 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 [lbs] kg	Replacement Seal Kit
89B20-010-2R	RH	[0.79] 20	[0.39] 10	[0.39] 10	[29] 130	[0.79] 20	[0.003] 0,08	[1.46] 0,66	89B/E20-2-00
89B20-010-2L	LH								
89B32-010-2R	RH	[0.83] 21	[0.43] 11		[79] 350	[1.25] 32	[0.008] 0,22	[2.25] 1,02	89B/E32-2-00
89B32-010-2L	LH								
89B40-010-2R	RH	[0.94] 24	[0.55] 14		[130] 580	[1.57] 40	[0.014] 0,39	[3.17] 1,44	89B/E40-2-00
89B40-010-2L	LH								
89B50-025-2R	RH	[1.57] 40	[0.59] 15	[0.98] 25	[225] 1000	[1.97] 50	[0.036] 1,03	[5.95] 2,70	89B/E50-2-00
89B50-025-2L	LH								
89B63-008-2R	RH	[1.02] 26	[0.71] 18	[0.32] 8	[321] 1430	[2.48] 63	[0.038] 1,08	[6.39] 2,90	89B/E63-2-00
89B63-008-2L	LH								

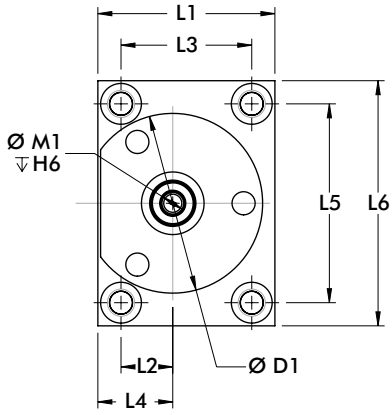
†with standard clamping arm at 6 bar [87psi]. ‡per double stroke at 6 bar [87psi]

Operating Pressure Range: 3 bar [45 psig] to 6 bar [87 psig]
Maximum Operating Temperature: 80°C [176°F]

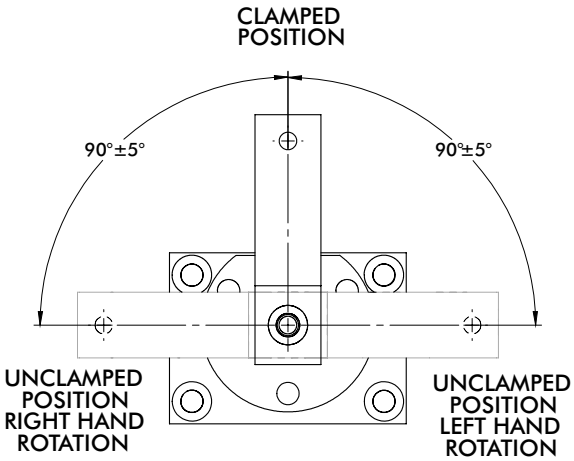
Note:
Switches are optional. To order clamp with (2) 8EA-109-1 switches, add **A** to the end of the model.
EX. 89B30-010-2R**A**. See page MC-PSC-40 for additional switch options.

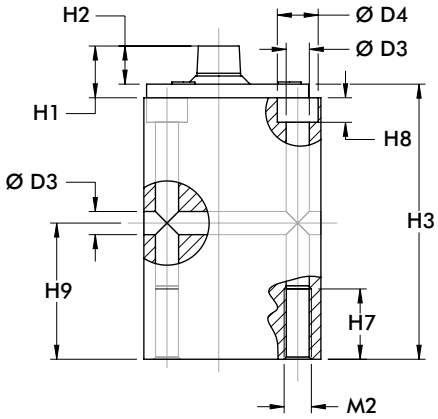
89B SERIES

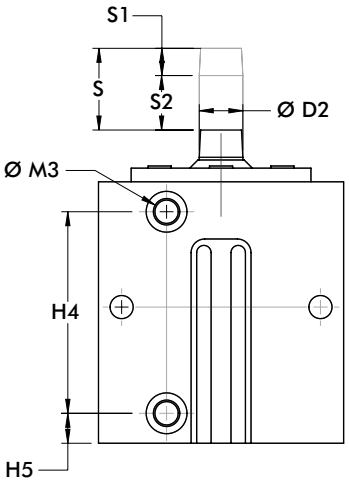
Pneumatic Swing Clamps | Dimensions

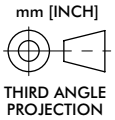










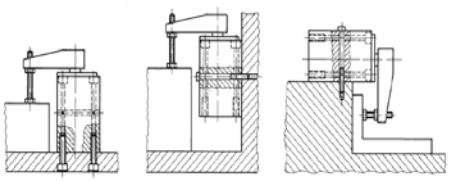


S = Total Stoke
S1 = Stroke during Rotation
S2 = Vertical Clamp Stroke

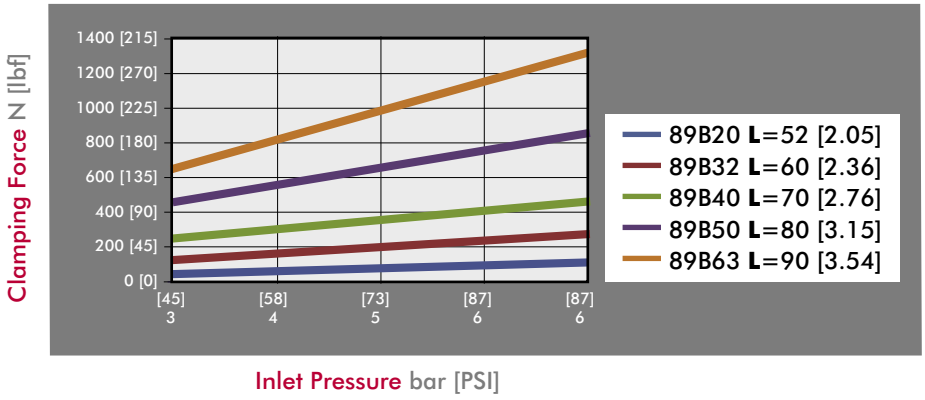
Model	ØD1	ØD2	ØD3	D4	H1	H2	H3	H4	H5	H6	H7	H8	H9	L1
89B20	[1.89] 48	[0.39] 10	[0.26] 6,6	[0.43] 11	[0.69] 17,5	[0.35] 9	[3.48] 88,5	[2.28] 58	[0.35] 9	[0.59] 15	[0.79] 20	[0.28] 7	[1.57] 40	[1.77] 45
89B32	[2.20] 56	[0.47] 12	[0.33] 8,5	[0.59] 15	[0.63] 16	[0.43] 11	[3.70] 94	[2.72] 69	[0.39] 10	[0.67] 17	[0.98] 25	[0.35] 9	[1.77] 45	[2.17] 55
89B40	[2.60] 66	[0.63] 16			[0.75] 19	[0.55] 14	[3.98] 101	[2.91] 74					[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			[1.06] 27	[0.75] 19	[4.53] 115	[3.35] 85					[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		
89B50	[0.94] 24	[2.17] 55	[1.34] 34	[3.54] 90	[4.33] 110		M12	
89B63	[1.18] 30	[2.76] 70	[1.57] 40	[3.94] 100	[4.72] 120	M10		G-1/4

Mounting Options



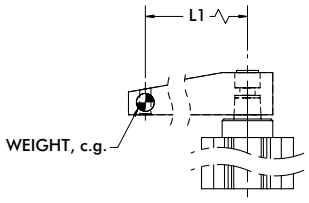
Series 89B Clamping Force
(w/ standard clamping arm)



Guidelines

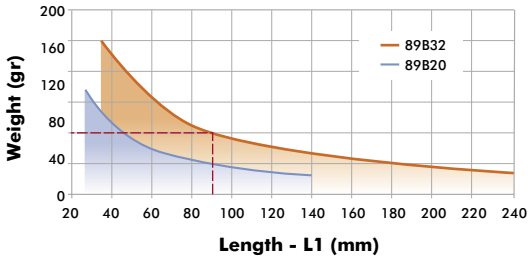
DESTACO Pneumatic Swing Clamps are designed for long life when using standard clamping arms and spindles. In the event that a longer arm or additional weight is needed, please consult these charts for the allowable weight and length.

Example: 89B32
At a weight of 80 gr, the maximum length of the arm is approximately 90mm.

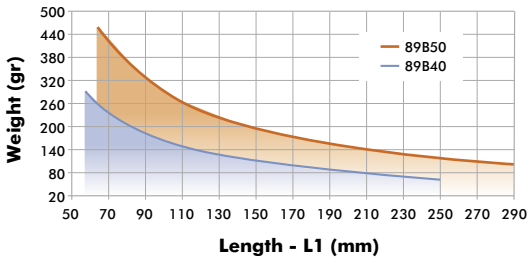


All data refers to an operating pressure of 5 bar [72psi] and an opening and closing time of 1 second.

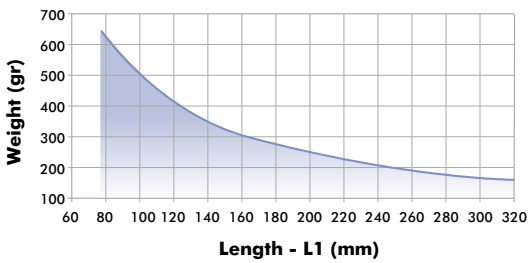
89B20 & 89B32 Clamp Arm Weight



89B40 & 89B50 Clamp Arm Weight



89B63 Clamp Arm Weight



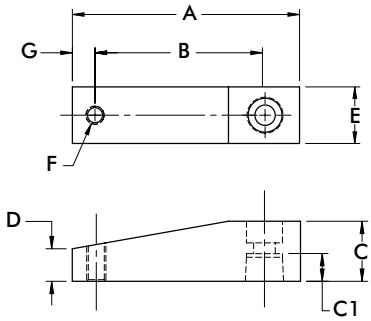
89B SERIES

Pneumatic Swing Clamps | Clamping Arm

Features:

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



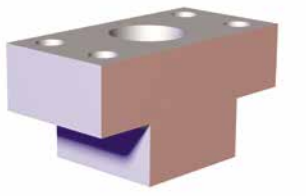


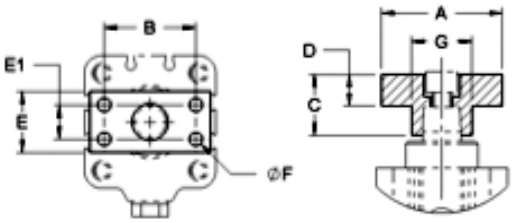
Part Number	Used with Model	A	B	C	C1	D	E	F	G	Weight [lbs] kg
8JG-215-1	89B20-010-2	[2.64] 67	[2.05] 52	[0.59] 15	[0.33] 8,5	[0.33] 8,5	[0.59] 15	M6	[0.28] 7	[0.08] 0,04
8JG-217-1	89B32-010-2	[3.15] 80	[2.36] 60	[0.79] 20	[0.37] 9,5		[0.79] 20	M8	[0.39] 10	[0.14] 0,06
8JG-218-1	89B40-010-2	[3.74] 95	[2.76] 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

Dimensions and technical information are subject to change without notice

Notes