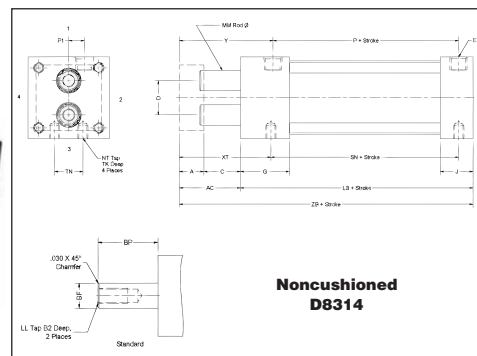




NFPA Square-Head Twin-Rod Air Cylinders

- Bottom-tapped (MS4) mounting holes, standard
- Max. operating pressure: 250 psi, except 1 1/8" bore are 150 psi
- Temp. range: -20° to 200°F

Permanently lubricated, heavy-duty, double-acting air cylinders for applications requiring guided movement when it is critical that the piston rod not rotate. 2 piston rods prevent rods from twisting and turning off the axis, for reliable, repeatable linear motion with no need for external guides. Cylinder bearing wear is also minimized by the nonrotating twin-rod design. High-tensile strength aluminum cylinders have chrome-plated polished steel piston rods, high-strength steel tie rods, cast-iron rod bearings, and U-cup piston cylinders.



Dimensions (in)

Bore Dia.	A	AC	B2	BF	BP	C	D	EE	G	J	LB	LL	MM	NT	P	P1	SN	TK	TN	XT	Y	ZB
1 1/8	0.625	1.5	0.5	0.313	1.063	0.875	0.627	1/8	0.875	0.625	2.25	1/4-28	0.312	10-32	1.469	0.241	1.5	0.25	0.5	2	2.031	3.75
1 1/2	0.625	1.875	0.625	0.375	1.375	1.25	0.75	1/4	1.5	1	3.625	5/16-24	0.375	1/4-20	2.125	0.303	2.25	0.375	0.625	2.812	2.875	5.5
2	0.75	1.875	0.625	0.625	1.25	1.125	1.052	1/4	1.5	1	3.625	5/16-24	0.625	5/16-18	2.125	0.48	2.25	0.375	0.875	2.812	2.875	5.5
2 1/2	0.75	2.125	0.75	0.625	1.5	1.375	1.398	1/4	1.5	1	3.75	3/8-24	0.625	3/8-16	2.25	0.635	2.375	0.625	1.25	3.063	3.125	5.875
3 1/4	1.25	2.375	1	1	1.25	1.125	2	3/8	1.75	1.25	4.25	1/2-20	1	1/2-13	2.625	0.845	2.625	0.625	1.5	3.437	3.437	6.625

Bore Dia.	► CHOOSE: Stroke	Non-Rotating, Switch Ready Item No.	Non-Rotating, Not Switch Ready Item No.
Noncushioned			
1 1/8 in	1 in, 2 in, 3 in, 4 in, 5 in	D8346	D8314
	6 in, 7 in, 8 in, 9 in, 10 in	D8349	D8317
Adjustable Cushion			
1 1/8 in	2 in, 3 in, 4 in, 5 in	D8351	—
	2 in, 3 in, 4 in	—	D8318
	6 in, 7 in, 8 in, 9 in, 10 in	D8352	D8319
	2 in, 3 in, 4 in, 5 in	D8355	D8323
2 in	6 in, 7 in, 8 in, 9 in, 10 in	—	D8324
	11 in, 12 in, 13 in, 14 in	D8357	—
	2 in, 3 in, 4 in, 5 in	D8361	D8328
2 1/2 in	6 in, 7 in, 8 in, 9 in, 10 in	D8362	D8329
	11 in, 12 in, 13 in, 14 in, 15 in	D8363	D8331
	16 in, 17 in, 18 in, 19 in, 20 in	D8366	—
	2 in, 3 in, 4 in, 5 in	D8367	D8335
	4 in, 6 in, 7 in, 8 in, 9 in	D8371	D8338
3 1/4 in	11 in, 12 in, 13 in, 14 in, 15 in	D8372	D8339
	16 in, 17 in, 18 in, 19 in, 20 in	D8373	D8341
	21 in, 22 in, 23 in, 24 in	D8376	D8344
	25 in, 26 in, 27 in, 28 in, 29 in, 30 in	D8377	D8345

Item	Bore Dia.	Item No.
Mounting Brackets		
Rear Flange Mounting Kit	1 1/2 in	6X470
	2 in	6ZC61
	2 1/2 in	6ZC62
	3 1/4 in	5YCH9
	1 1/2 in	1A254
Side Lug Mounting Kit	2 in	1A255
	2 1/2 in	1A256
	3 1/4 in	1A257
For Use With		
Repair Kits		
5VEA7 to 5VEA9, 5VEC0 to 5VEC3, 5YAY9 to 5YAZ8		5YCJ0

Hold-Down Pneumatic Clamps



For use in welding, woodworking (cutting and gluing), drilling, tapping, reaming, and assembly applications. Can be used on automated systems. Toggle-action clamps remain in locked position if air pressure is accidentally lost or hoses are disconnected. Most models are sensor-ready with provisions for mounting sensors (usually grooves) included. Enclosed clamps are designed for dirty environments where contamination can be a problem. For mechanical hold-down clamps, see pages 2204 and 2205.

Holding Cap. (in. lbs.)	Arm	Base Mounting Centers	Mfr. Model	Item No.
Toggle-Action Mini Power Clamps				
177	90°	15 x 9mm	81L12-14100	3CXG3
221	120°	15 x 9mm	81L12-10100	3CXG2
354	90°	20 x 12mm	81L16-14100	3CXG5
531	120°	20 x 12mm	81L16-10100	3CXG4
708	90°	20 x 15mm	81L20-14100	3CXG7
708	90°	20 x 15mm	81L25-14100	3CXG9
885	120°	20 x 15mm	81L20-10100	3CXG6
885	120°	20 x 15mm	81L25-10100	3CXG8
Holding Cap. (in. lbs.)		Base Mounting Centers	Mfr. Model	Item No.
Toggle-Action Power Clamps				
660	25 x 18mm	82L2G-2030000		3CXH1
1596	20 x 20mm	82L3G-2030000		3CXH3
3360	25 x 20mm	82L4G-2030000		3CXH5
Toggle-Action Power Clamps with Sensor				
660	25 x 18mm	82L2G-203B800		3CXH2
1596	20 x 20mm	82L3G-203B800		3CXH4
3360	25 x 20mm	82L4G-203B800		3CXH6

Holding Input Air Cap. Pressure (lb.) (psi)	Base Mounting Centers (in.)	Mfr. Model	Item No.
Hold-Down Clamps			
100	80	0.94 x 0.63	812-U 3CXJ1
200	80	1.06 x 0.50	802-U 3CXH7
375	80	1.25 x 0.75	807-U 3CXH8
600	80	1.78 x 1.25	810-U 3CXH9
Hold-Down, Enclosed			
390	145	1.50 x 0.79	8021 3CXJ2
450	145	1.56 x 1.97	8071 3CXJ3
Straight Line Clamps			
600	80	1.31 x 1.44	803 3CXJ5
2500	145	1.63 x 1.38	830 3CXJ7



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