

DADCO®

HP Non-Rotating Air Cylinder

HP.N Series

NEW!



Bore Sizes from 32 – 100 mm

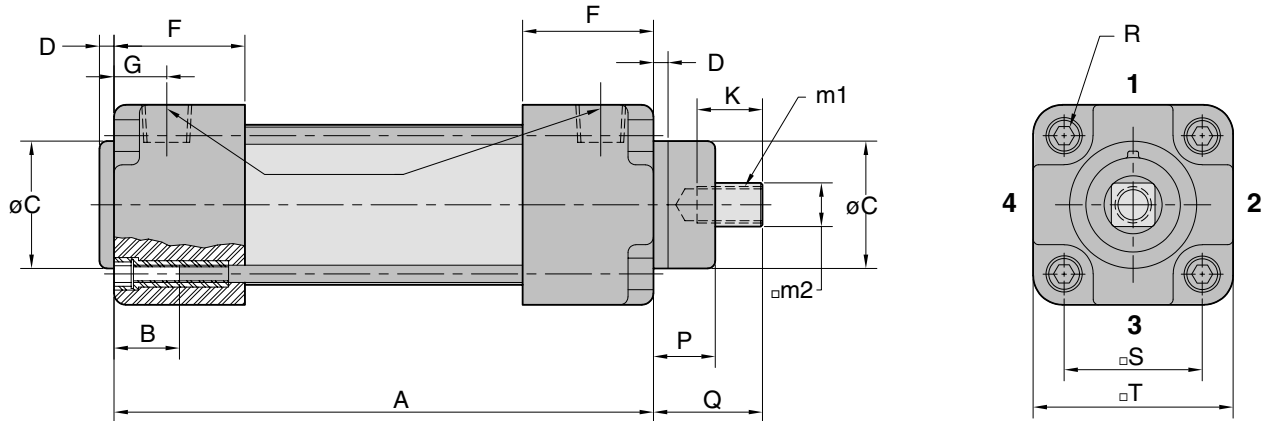
HP.N Series Air Cylinders

NEW! HP.N Series Non-Rotating Air Cylinders

DADCO's HP.N Series Non-Rotating Air Cylinders have all the features of the standard HP Air Cylinder Series, while the cylinder's stainless steel square rod prevents rotation. DADCO offers 32 – 100 mm bore sizes and a variety of stroke lengths to meet customer requirements. A variety of mounting options and accessories can be found in the standard HP Air Cylinder Catalog.

Operating Specifications

Medium:	Air
Temperature:	-20° – 80°C (-4° – 176°F)
Maximum speed:	0.2 m/sec. (0.66 ft/sec.)
Max. working pressure:	10 bar (140 psi)



NOTE: The female rod end is standard. DADCO offers rod end studs (ISO 12.9) to convert the female thread to a standard male rod end, see page 27 of DADCO's HP Air Cylinder Catalog (C03102A) for details. For the 100 mm bore size order Stud 80RES.

Bore	A	B	C	D	EE*	F	G	K	m1	m2	P	Q	R	S	T
ø32	94 + STROKE	20	30	4	1/8	33	13	15	M8x1.25	10	16	26	M6	32.5	48
ø40	105 + STROKE	20	35	4	1/4	36	14.5	18	M10x1.25	12	17	30	M6	38	55
ø50	106 + STROKE	19	40	4	1/4	36	14	21	M12x1.25	16	29	37	M8	46.5	67
ø63	121 + STROKE	19	45	4	3/8	43	19	21	M12x1.25	16	29	37	M8	56.5	81
ø80	128 + STROKE	22	45	4	3/8	42	16	28	M16x1.5	20	35	46	M10	72	97
ø100	138 + STROKE	21	55	4	1/2	47	18	28	M16x1.5	20	35	51	M10	89	114

Bore	Stroke											
ø32	25	50	80	100	125	160	200	250	-	-	-	-
ø40	25	50	80	100	125	160	200	250	-	-	-	-
ø50	25	50	80	100	125	160	200	250	320	400	-	-
ø63	25	50	80	100	125	160	200	250	320	400	500	-
ø80	25	50	80	100	125	160	200	250	320	400	500	-
ø100	25	50	80	100	125	160	200	250	320	400	500	-

Ordering Example:

HP.N.80.100. P. 1. TO

Part Number

Includes Series, Bore and Stroke length

Special Cylinder Designation

N = Non-Rotating Cylinder

*Port Style (EE)

P = NPT
G = BSPP

Mount Option

TO=Basic Mount. See pages 4-15 of the Standard HP Air Cylinder Catalog (C03102A) for mount options. When not specified default is TO. Mount ordered with cylinder will be attached at the factory.

Port Location (1-4)

Standard = 1

Force Chart

Cyl. Bore Dia. (mm)	Cyl. Work Action	Imperial		Metric	
		Work Area (sq. in.)	Force (lb) 80 psi	Work Area (cm ²)	Force (kN) 6 bar
32	PUSH	1.25	100	8	.483
	PULL	1.09	87	7.0	.423
40	PUSH	1.95	156	12.6	.754
	PULL	1.72	138	11.1	.668
50	PUSH	3.04	243	19.6	1.18
	PULL	2.65	212	17.1	1.02
63	PUSH	4.83	387	31.2	1.87
	PULL	4.43	355	28.6	1.72
80	PUSH	7.79	623	50.3	3.02
	PULL	7.17	574	46.3	2.78
100	PUSH	12.17	974	78.5	4.71
	PULL	11.55	924	74.5	4.47

NOTE: A cylinder's theoretical force should be 50-100% greater than the force required.