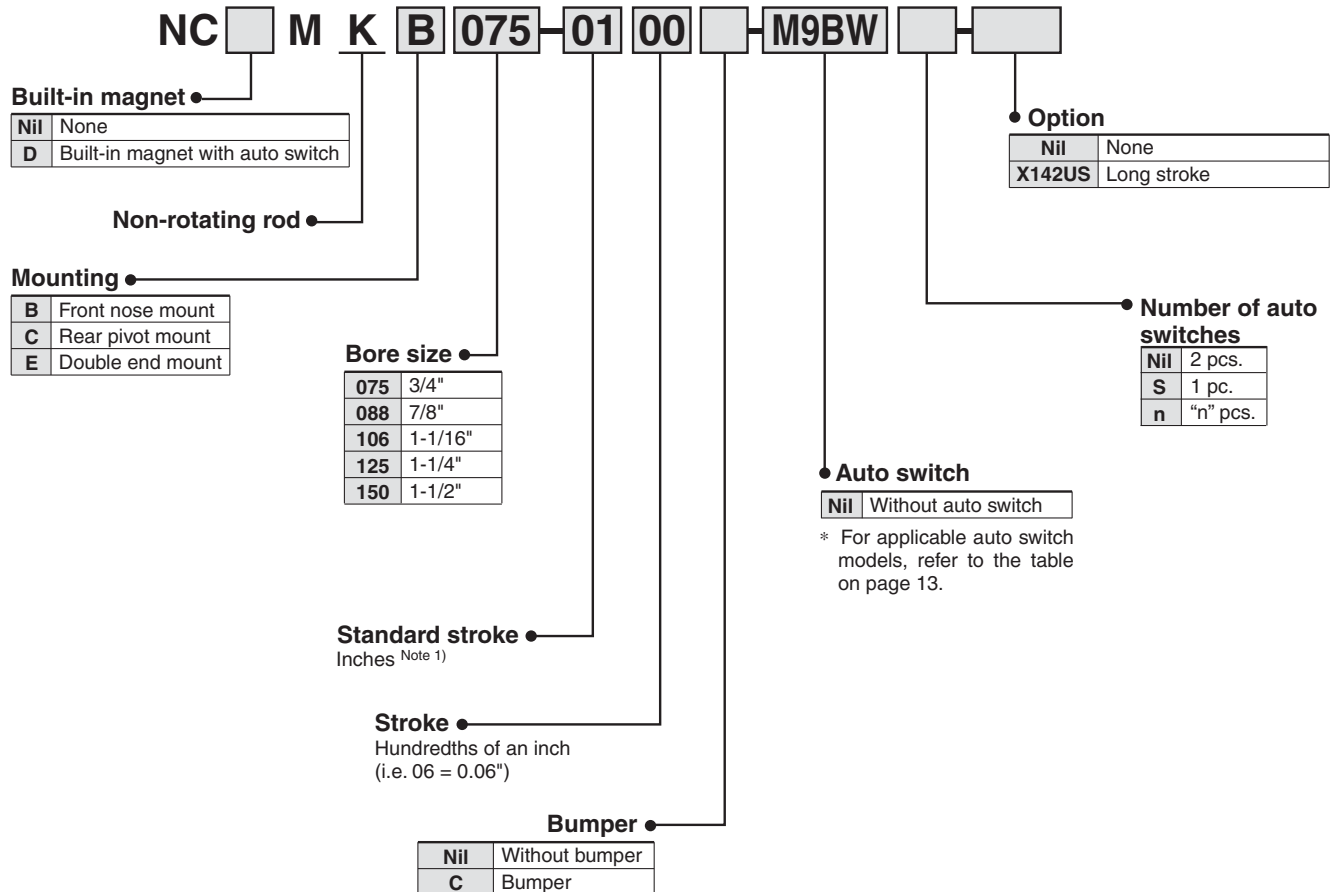


Air Cylinder: Non-rotating Rod Double Acting, Single Rod

Series *NCM*

How to Order



Note 1) See specifications for standard and maximum stroke lengths.

Specifications: Double Acting, Single Rod Non-rotating Rod

Specifications

Bore size (inch)	075 (3/4")	088 (7/8")	106 (1-1/16")	125 (1-1/4")	150 (1-1/2")
Fluid	Air				
Maximum operating pressure	250 PSI / 1.7 MPa				
Minimum operating pressure	8 PSI / 0.06 MPa				
Ambient and fluid temperature	40 to 140°F / 5 to 60 °C				
Piston speed	2 to 20 in/sec / 50 to 500 mm/sec				
Rod material	Stainless steel 303				
Bumper	Optional (No additional charge on 7/8" and 1-1/4" bore)				
Non-rotating accuracy	± 2.0°		± 1.4°		
Maximum allowable torque	0.04 ft-Lbf (0.06 N-m)		0.09 ft-Lbf (0.13 N-m)	0.12 ft-Lbf (0.16 N-m)	

Standard Stroke

(inch)

Mounting	Standard stroke	Max. stroke as standard	Long stroke -X142US
Front nose mount (B)	1/2, 1, 2, 3, 4, 5, 6,	12	40
Double end mount (E) Rear pivot mount (C)	1/2, 1, 2, 3, 4, 5, 6, 7, 8, 10, 12	32	40

Note 1) Minimum stroke for mounting auto switches: 0.6 inch for 2 switches, 0.4 inch for one switch.

Note 2) Spring return up to 18" available as special request.

Theoretical Output: Non-rotating Rod

(lbf)

Bore size (inch)	Rod diameter (inch)	Operating direction	Effective area (sq.inch)	Operating pressure (PSI)					
				25	50	75	100	125	150
075 (3/4")	0.250	OUT	0.442	11.0	22.1	33.1	44.2	55.2	66.3
		IN	0.399	10.0	20.0	30.0	39.9	49.9	59.9
088 (7/8")	0.250	OUT	0.608	15.2	30.4	45.6	60.8	76.0	91.2
		IN	0.566	14.1	28.3	42.4	56.6	70.7	84.9
106 (1-1/16")	0.375	OUT	0.882	22.1	44.1	66.2	88.2	110.3	132.4
		IN	0.787	19.7	39.3	59.0	78.7	98.3	118.0
125 (1-1/4")	0.437	OUT	1.227	30.7	61.4	92.0	122.7	153.4	184.1
		IN	1.098	27.4	54.9	82.3	109.8	137.2	164.6
150 (1-1/2")	0.437	OUT	1.767	44.2	88.4	132.5	176.7	220.9	265.1
		IN	1.638	40.9	81.9	122.8	163.8	204.7	245.6

Weight

(lbs)

Bore size (inch)	Base weight by mounting style			Add'l weight per inch stroke	Add'l weight for magnet	Add'l weight for bumper
	B	C	E			
075 (3/4")	0.200	0.200	0.280	0.035	0.008	0.012
088 (7/8")	0.208	0.188	0.278	0.038	0.010	0.012
106 (1-1/16")	0.340	0.330	0.420	0.063	0.012	0.011
125 (1-1/4")	0.541	0.591	0.691	0.083	0.020	0.029
150 (1-1/2")	0.720	0.820	0.860	0.104	0.024	0.020