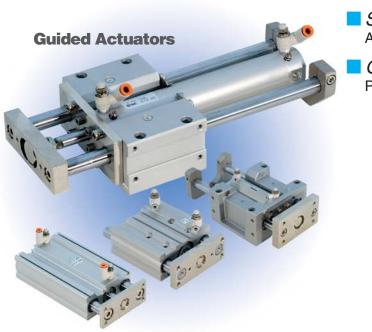




Simplified ordering of **SPEED CONTROLS** with **ACTUATORS**



New Option!

- Single part number Specify speed controls by tubing size and controller style
- Sized for cylinder performance Adjustability from minimum to maximum actuator speed
- One-touch connection convenience Push to connect tubing connection speeds installation



Quick Reference Guide

How to Order

NCDQ2B40-50D-M9PL - R 07 US

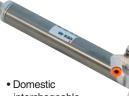
Standard Part Number

- 1. Configure standard actuator part number
- 2. Select speed control style
- 3. Select available tube size from the series chart
- 4. Using the appropriate symbols for 2 and 3, configure the complete part number
- Two (2) meter-out speed controls will be provided with each actuator. To minimize the risk of shipping damage, they will not be installed prior to shipment. If installation is desired, please contact your SMC representative.

Basic Cylinders

Series NCM

Tubing OD 1/8" 5/32" 1/4" 5/16" 3/8" 1/2 Bore 07 09 11 13 03 01 7/16" 044 ۲ ۲ 056 9/16" • • 075 3/4" • • 7/8" 088 106 1-1/16" ۲ 125 1-1/4" • • ۲ 1-1/2" 150 • • 200 2"



- interchageable non-repairable cylinder
- Standard piston wear ring increase service life
- See catalog IBD20-2 for cylinder details

Speed Control Style

Symbol	Description
R	Right angle
U	Universal elbow

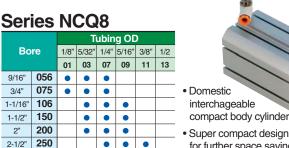
4"

400

Tube O.D.

Inch S	Sizes	Metric Sizes			
Symbol	Diameter	Symbol	Diameter		
01	1/8"	02	2mm		
03	5/32"	04	4mm		
07	1/4"	06	6mm		
09	5/16"	08	8mm		
11	3/8"	10	10mm		
13	1/2"	12	12mm		

Compact Body Cylinders



• •



Super compact design is available for further space savings

For cylinder details, see catalog IBD20-1

Series NCG

		Tubing OD							
Bore		1/8"	5/32"	1/4"	5/16"	3/8"	1/2		
		01	03	07	09	11	13		
3/4"	20		•	•					
1"	25		•	•					
1-1/4"	32		•	•	•				
1-1/2"	40		•	•	•				
2"	50			•	•	•			
2-1/2"	63			•	•	•			

Available only on air cushion model Available only on urethane cushion model

Series NCA1

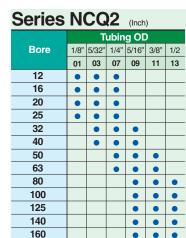
Bore		Tubing OD							
		1/8"	5/32"	1/4"	5/16"	3/8"	1/2		
		01	03	07	09	11	13		
1-1/2"	150			•	•	•	•		
2"	200			•	•	•	•		
2-1/2"	250			•	•	•	•		
3-1/4"	325				•	•	•		
4"	400				•	•	•		



- · Capable of speeds up to 40 in/sec
- For cylinder details, see catalog NC145

NFPA

- interchangeable tie rod cylinder
- · Medium duty aluminum design with standard air cushions
- See catalog N304 for cylinder details





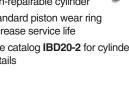
Series CQ2 (Metric) Tubing OD



- · Hard anodized, compact aluminum body
- Both inch (NCQ2) and metric (CQ2) models available
- 13 bore size available See catalog N320 for
- cylinder details

Only available in right angle type.





Two Basic Styles

Right angle type



Simple, compact design

Universal elbow



Inlet swivels for maxium connection flexibility

Common features:

- · Body rotates on stud for easy final positioning for inlet
- · One-touch connection for simple, secure attachment of tubing
- · Knurled lock nut and sealant are standard

For this actuator option, meter-out is the only configuration offered. SMC offers the broadest range of speed controls in the industry, ask for catalog NC140 for details on our full line.

Guided Cylinders

Series MGP/MGQ

	Tubing OD								
Bore	Inch port actuator								
	1/8"	5/32"	1/4"	5/16"	3/8"	1/2"			
	01	03	07	09	11	13			
12	•	•	٠						
16	•	•	٠						
20		•	٠	•					
25		•	•	٠					
32		•	٠	•					
40		•	٠	٠					
50			٠	•	٠				
63			٠	•	٠				
80				٠	٠	•			
100				•	•				

Tubing OD											
Metric port actuator											
2mm	4mm	6mm	8mm	10mm	12mm						
02	04	06	08	10	12						
	•	•									
	•	•									
	•	•	•								
	•	•	٠								
	•	•	•								
	•	•	•								
		٠	٠	٠							
		•	•	•							
					٠						
			•	•	•						
Onl	y avail	able ir	n right	angle	type.						

Series MGG

Bore	Tubing OD Inch port actuator								
	1/8"	5/32"	1/4"	5/16"	3/8"	1/2"			
	01	03	07	09	11	13			
20		•	٠	٠					
25		•	٠	٠					
32		•	٠	٠					
40		•	•	•					
50			•		•				

Tubing OD Metric port actuator										
2mm	4mm			10mm	12mm					
02	04	06	08	10	12					
	•	•	•							
	٠	•	٠							
	•	•	•							
	•	•	٠							
		٠	٠	٠						

- Compact body guided actuators
- · Basic (MGQ) and enhanced (MGP) models available
- For actuator details, see catalog ES20-117 (MGP) or E225 (MGQ)

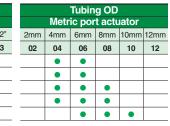


- · Actuator with integrated guide rods
- · Integral shock absorbers for controlled stop
- See catalog ES20-191 for actuator details



Series MGC

	Tubing OD Inch port actuator							Tubi Metric po		
Bore	1/8"	5/32"	1/4"	5/16"	3/8"	1/2"	2mm	4mm	6mm	
	01	03	07	09	11	13	02	04	06	
20		•	•					•	٠	
25		•	•					•	٠	
32		•	•	•				•	٠	
40		•	•	•				•	٠	
50			٠	•	•				•	



40

- Compact version of series MGG
- Standard air cushions for end of stroke energy absorption
- See catalog ES20-191 for actuator details





Go online to save time and money with SMC's dynamic real-time E tech website. There you can view and download both 2D and 3D CAD files in multiple formats. This is provided free of charge to our customers.

Website URL http://www.smcetech.com

OSMC

TECH

Selecting the right product is made



easy via our database driven part number configuration and validation.

> Product catalogs available for download and printing.



Get Connected with SMC Tubing!

Polyurethane

- Extreme flexibility
- Abrasion and kink resistant
- Good pressure rating
- Low compression set
- Three durometer choices
- 29 standard colors in standard type
- Standard coiled or flat models available

Nylon

- High pressure rating
- Broad chemical resistance
- High thermal resistance
- Two durometer choices
- Light weight
- High abrasion resistance
- Seven standard colors available

Also available:

- Clean room tubing
- Anti static tubing
- Weld spatter resistant



- Inch sizes from 1/8" to 1/2"
- Metric sizes from 2mm to 16mm
- Standard roll lengths to 1,000' or 500m

Tubing Tools



Global Manufacturing, Distribution and Service Network

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