

## Data sheet

Sheet No.: CPM 2.01 Rev. B

Date: August 2010

CBA-Series

# Performance Data – (Pneumatic)

### Double-Acting Actuators

#### CBA-Series

Actuator Model	Volume (cu cm) ▲		Maximum Operating Pressure (MOP)* (Bar)	Maximum Allowable Working Pressure (MAWP)** (Bar)	Approximate Weight of Actuator (kg)
	Outboard	Inboard (Housing)			
CBA 315	393.3	885.0	8.3	13.8	9.1
CBA 420	868.5	1884.5	8.3	13.8	10.0
CBA 520	1360.1	2425.3	4.8	11.0	12.7
CBA 525	1720.6	3392.1	8.3	13.8	20.0
CBA 725	3408.5	5358.6	5.5	11.0	31.0

### Spring-Return Actuators

#### CBA-Series

Actuator Model	Volume (cu cm) ▲	Maximum Operating Pressure (MOP)* (Bar)	Maximum Allowable Working Pressure (MAWP)** (Bar)	Approximate Weight of Actuator (kg)
◆ CBA315-SR40	885	10.7	13.8	10.0
SR60	885	10.5	13.8	10.4
SR80	885	10.3	13.8	11.8
SR100	885	11.3	13.8	11.4
◆ CBA415-SR40	1229	6.9	11.0	12.7
SR60	1229	7.7	11.0	14.1
SR80	1229	8.1	11.0	14.1
SR100	1229	7.9	11.0	14.1
◆ CBA420-SR40	1884.5	10.8	13.8	16.8
SR60	1884.5	10.8	13.8	17.7
SR80	1884.5	11.0	13.8	18.1
SR100	1884.5	11.4	13.8	18.6
◆ CBA520-SR40	2425.3	7.6	11.0	20.4
SR60	2425.3	8.0	11.0	21.8
SR80	2425.3	8.3	11.0	22.2
SR100	2425.3	9.1	11.0	24.0
◆ CBA525-SR40	3392	10.1	13.8	28.1
SR60	3392	10.4	13.8	29.5
SR80	3392	11.0	13.8	29.5
SR100	3392	11.2	13.8	30.4
◆ CBA725-SR40	5358.6	7.0	11.0	44.0
SR60	5358.6	8.0	11.0	44.5
SR80	5358.6	8.6	11.0	47.2
SR100	5358.6	8.6	11.0	48.5

Notes:

◆ CBA-SRXXM mechanical handwheel overrides are available on these models. The override adds approximately 12 lbs. (5kg) to the weight of the standard CB model.

▲ Maximum volume including cavity required for calculating consumption per stroke.

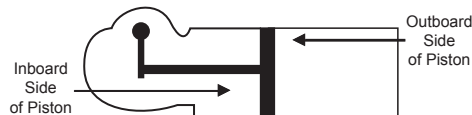
\* **Maximum Operating Pressure (MOP)** - The pressure required to produce the maximum rated torque of the actuator.

\*\* **Maximum Allowable Working Pressure (MAWP)** is the maximum static pressure that may be applied to a fully stroked actuator against the travel stops.

Standard installation produces clockwise rotation when the outboard side of piston is pressurized.

Standard installation produces counterclockwise rotation when the inboard side of piston is pressurized.

Note: Actuator may be installed opposite of that shown above



**BETTIS**™

**EMERSON**™

Copyright © Emerson. The information in this document is subject to change without notice. Updated data sheets can be obtained from our website [www.emerson.com/bettis](http://www.emerson.com/bettis) or from your Emerson Automation Solutions - Actuation Technologies Center:

America's: +1 281 477 4100 Europe: +36 22 53 0950 Asia/Pacific: +65 67 77 8211 Middle East: +971 4 811 810