

Data sheet

Sheet No.: CBPI 2.01 RevB

Date: February 2010

CBB-Series

Performance Data – (Pneumatic)

Double-Acting Actuators CBB-Series

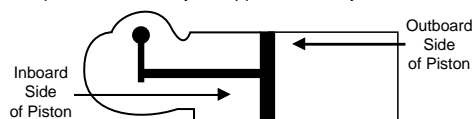
Actuator Model	Volume				Maximum Operating Pressure (MOP)*		Maximum Allowable Working Pressure (MAWP)**		Approximate Weight of Actuator	
	Outboard		Inboard (Housing)							
	Cu. Inches	Cubic Cm	Cu. Inches	Cubic Cm	PSIG	Bar	PSIG	Bar	Lbs.	Kg
CBB 315	24	393.3	54	885.0	120	8.3	200	13.8	20	9.1
CBB 420	53	868.5	115	1884.5	120	8.3	200	13.8	22	10.0
CBB 520	83	1360.1	148	2425.3	70	4.8	160	11.0	28	12.7
CBB 525	105	1720.6	207	3392.1	120	8.3	200	13.8	44	20.0
CBB 725	208	3408.5	327	5358.6	80	5.5	160	11.0	68	31.0

Spring-Return Actuators CBB-Series

Actuator Model	Volume		Maximum Operating Pressure (MOP)*		Maximum Allowable Working Pressure (MAWP)**		Approximate Weight of Actuator	
	Cu. Inches	Cubic Cm	PSIG	Bar	PSIG	Bar	Lbs.	Kg
◆ CBB 315-SR40	54	885	155	10.7	200	13.8	22	10.0
SR60	54	885	152	10.5	200	13.8	23	10.4
SR80	54	885	150	10.3	200	13.8	26	11.8
SR100	54	885	164	11.3	200	13.8	25	11.4
◆ CBB 415-SR40	75	1229	100	6.9	160	11.0	27	12.7
SR60	75	1229	112	7.7	160	11.0	29	14.1
SR80	75	1229	117	8.1	160	11.0	30	14.1
SR100	75	1229	114	7.9	160	11.0	31	14.1
◆ CBB 420-SR40	115	1884.5	157	10.8	200	13.8	37	16.8
SR60	115	1884.5	156	10.8	200	13.8	39	17.7
SR80	115	1884.5	161	11.0	200	13.8	40	18.1
SR100	115	1884.5	166	11.4	200	13.8	41	18.6
◆ CBB 520-SR40	148	2425.3	110	7.6	160	11.0	45	20.4
SR60	148	2425.3	116	8.0	160	11.0	48	21.8
SR80	148	2425.3	120	8.3	160	11.0	49	22.2
SR100	148	2425.3	132	9.1	160	11.0	53	24.0
◆ CBB 525-SR40	207	3392	146	10.1	200	13.8	62	28.1
SR60	207	3392	151	10.4	200	13.8	65	29.5
SR80	207	3392	159	11.0	200	13.8	65	29.5
SR100	207	3392	163	11.2	200	13.8	67	30.4
◆ CBB 725-SR40	327	5358.6	102	7.0	160	11.0	97	44.0
SR60	327	5358.6	115	8.0	160	11.0	98	44.5
SR80	327	5358.6	124	8.6	160	11.0	104	47.2
SR100	327	5358.6	124	8.6	160	11.0	107	48.5

Notes:

- ◆ CBA-SRXXM mechanical handwheel overrides are available on these models. The override adds approximately 2 lbs. (.8 kg) to the weight of the standard CBA model.
 - ▲ Maximum volume including cavity required for calculating consumption per stroke.
 - * **Maximum Operating Pressure (MOP)** is 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[™]

www.Bettis.com

Copyright © Emerson Process Management. The information in this document is subject to change without notice. Updated data sheets can be obtained from our website www.bettis.com or from your nearest Valve Automation Center.
 USA: +1 281 727 5300 Europe: +31 74 256 1010 Asia-Pacific: +65 6501 4600

EMERSON[™]
 Process Management