

**ANSI/BHMA A156.17-2004
American National Standard for Self Closing Hinges & Pivots**

Standard ANSI/BHMA A156.17-2004 establishes requirements for Self Closing Hinges & Pivots and includes definitions, general information, dimensional requirements and tests (equipment requirements and procedures). Illustrations, descriptions and identifying numbers of hinges are also provided.

Tests and required results in this standard include:

- Closing Force
- Cycle
- Latch Test for Single Acting Doors
- Static Load
- Finish

Product grades are defined by progressive performance benchmarks in the given tests, with Grade 1 being the highest level of performance. For example, in the “cycle test,” a Grade 1 Single Acting Hinge must be able to perform 1,000,000 cycles, as compared to a Grade 3, which requires 250,000 cycles. The last digit of the product number identifies the grade of a BHMA product.

The following are partial descriptions of test values. Please see the complete standard for additional tests:

Closing Force Requirements

Single Acting Hinges							
Flange Height		Test Door Weight		Test Door Width		Closing Force	
in	(mm)	lbs	(kg)	in	(mm)	lbf	(N)
3	(76)	60	(27)	30	(762)	.50	(2.2)
3.5	(89)	80	(36)	30	(762)	.75	(3.3)
4	(102)	100	(45)	36	(914)	1.00	(4.4)
4.5	(114)	120	(54)	36	(914)	1.25	(5.5)
5	(127)	120	(54)	36	(914)	1.25	(5.5)
6	(152)	140	(63)	36	(914)	3.00	(13)
7	(178)	160	(73)	48	(1219)	4.00	(18)

Cycle Test

	Single Acting Hinges	Double Acting Hinges & Pivots
*Cycles	Number	Number
Grade 1	1,000,000	500,000
Grade 2	500,000	250,000
Grade 3	250,000	100,000