ACTUATOR SELECTION

Select desired running time, operating voltage, control/feedback options, to specify actuator designation. Use Table A and Table B (below) to specify actuator designation (see 1615 literature† for additional information and specifications).

Table A.

Part Number	Torque (lb-in)	Running Time (1) 90° at 60 Hz (sec.)	Input Voltage (VAC)	Input Control	Feedback Signal	Degrees of Travel (8)	Zero and Span Adjustment
1615-A	140	12	110-120	4-20 mA	None	135°	Yes
1615-B	140	25	110-120	4-20 mA	None	90°	Yes
1615-C	140	25	24	(2)	135Ω	135°	No
1615-D	200	25	110-120	4-20 mA	None	90°	Yes
1615-E	200	25	110-120	4-20 mA	1000Ω	90°	Yes
1615-F	310	37	110-120	4-20 mA	None	135°	Yes
1615-G	310	37	110-120	(2)	135Ω	135°	No
1615-H	310	37	110-120	(3)	(4)	135°	Yes
1615-I	310	37	110-120	Floating	None	160°	No
1615-J	310	37	220-240	4-20 mA	None	135°	Yes
1615-K	400	50	220-240	(3)	(4)	90°	Yes
1615-L	400	50	110-120	4-20 mA	None	135°	Yes
1615-N	140	25	220-240	4-20 mA	None	90°	Yes
1615-P	200	25	110-120	(3)	(4)	90°	Yes
1615-Q	200	25	110-120	4-20 mA	None	135°	Yes
1615-R	200	25	110-120	4-20 mA	1000Ω	135°	Yes
1615-W	310	37	110/120	3	4	90°	Yes
1615-X	310	37	220/240	3	4	90°	Yes
1615-Y	400	50	110/120	3	4	90°	Yes

NOTES:

(1) Multiply running time by 1.2 for 50 Hz.
(2) Position proportional control (i.e. AC voltage control)
(3) All inputs/outputs, linearization, split ranging, and pre-set positioning, 4-20mA, 0-10vdc, 0-20 mA, and line voltage.
(4) Actuators with the multi-functional circuit board have the following output signals: 4-20 mA, 0-10 V dc, and 0-20 mA
(5) Actuator shafts are ⅜" square for 1615-A - L and 1615-N - R
(6) All actuators will contain 2 limit switches and 4 auxiliary SPDT switches
(7) All actuators will use the red scale indication with the double switch cam indicators.
(8) All 135° actuators will be factory spanned for 90° travel when used as an 1199 assembly.

Table B.

Part Number	Torque (lb-ft)	Running Time (sec.)	Input Voltage (VAC)	Input Control	Feedback Signal	Degrees of Travel	Enclosure
R410-8342	30	24	120	4-20mA	4-20mA	90°	NEMA 4
R410-8341	30	24	120	4-20mA	4-20mA	90°	Explosion proof Class 1, Div. 1
R410-8344	30	24	120	4-20mA	4-20mA	90°	NEMA 4
R410-8343	30	24	120	4-20mA	4-20mA	90°	Explosion proof Class 1, Div. 1

Actuator Selection Example:

Select a 1615-H for a 120 V, 37 second, high resolution actuator with all input/output and multi function options.

† **Bulletin 1615:** Actuator/Control Motor selection; **Instruction Manual 1615:** Installation and Operation Manual and specification.

WARNING: Situations dangerous to personnel and property may exist with the operation and maintenance of any combustion equipment. The presence of fuels, oxidants, hot and cold combustion products, hot surfaces, electrical power in control and ignition circuits, etc., are inherent with any combustion application. Components in combustion systems may exceed 160°F (71°C) surface temperatures and present hot surface contact hazard. Fives North American Combustion, Inc. suggests the use of combustion systems that are in compliance with all Safety Codes, Standards, Regulations and Directives; and care in operation.

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