DelVal Series 2E Electric Actuator

The DelVal DelTorq Series 2E is an electric quarter-turn actuator rated from 885 to 26,550 in-lb (100 to 3000 Nm), made to mount directly on DelVal valves, with a handwheel override, space heater and two auxiliary limit switches as standard.



Key data	
Rated torque	885 to 26,550 in-lb (100 to 3000 Nm)
Manual override	Handwheel standard on all units
Standard extras	Space heater, two auxiliary limit switches
Mounting	Direct mount to DelVal valves

Electrical data

Remote monitoring and control options

Option	Description
PK	Potentiometer kit (output signal : 0~1 K Ohm) High resolution potentiometer and precisely machined gearing are directly engaged with drive shaft to feedback continuous position of valve
CT	Current transmitter (output signal : 4 - 20 mA) Zero / Span Adjustment Convertible DIP Switch (4 wire to 2 wire)
RPC/Signal Configuration	Remote position controller (by input and output signal) Input : 4-20 mA, 0-10 VDC, 2~10 VDC, 1~5 VDC, 0~5 VDC Output : 4-20 mA, 0-10 VDC, 2~10 VDC, 1~5 VDC, 0~5 VDC Auto-calibration Reverse operating direction

Standard specifications

Item	Detail
Enclosure	Weatherproof to IP67, NEMA 4, 4X and 6, o-ring sealed
Main power supply	110/220 VAC - 1Ph/50/60Hz; 380/440 VAC - 3Ph/50/60Hz
Control power supply	110/220 VAC - 1Ph/50/60Hz
Duty cycle (on-off)	S2: 10Min~30Min / S4: 20~50%
Packing	Graphite
Drive pin	17-4- PH SS ASTM A564 - type 630
Duty cycle (modulating)	S4, 30~50%, 300~1200 start/hour
Motor	Squirrel caged induction motor
Torque switches	1 each for open and close (SPDT 250VAC/10A rating)
Stall protection / set temp.	Built in thermal protection
Travel angle	90° +/- 5°
Position indicator	Continuous position indicator with arrow
Manual override	De-clutchable
Self locking	Provided by double worm gearing (no brake)
Mechanical stop	1 each for each travel end (open and close), external & adjustable
Space heater (for anticondensation)	5W (110/220 VAC)
Conduit entries	(2) 3/4" NPT
Lubrication	EP type grease
Ambient temperature	Basic actuator : -4°F to 158°F; c/w control options : 14°F to 140°F
Ambient humidity	90%RH max (non-condensing)
Anti vibration	on request
External coating	Polyester powder coated

Dimensions and weights

Basic actuator (inch)

Type	2E 010	2E 021	2E 050	2E 080	2E 300
Flange	F07	F07	F10	F12	F16
ISO5211		F10	F12	F14	
C (Ø)	2.756	2.756	4.016	4.921	6.496
C (Ø)		4.016	4.921	5.512	
A	M8	M8/M10	M10/M12	M12/M16	M20
B	0.551	0.551 / 0.669	0.669 / 0.826	0.787 / 0.984	1.259
G	0.118	0.118	0.118	0.118	0.197
H	1.457	2.244	2.441	2.638	3.543
S	3.937	4.528	5.709	6.693	8.85
X	10.157	13.307	14.055	14.961	17.32
Y	6.772	9.016	9.606	11.299	14.76
Z	8.661	10.197	11.339	12.323	15.15

Key to dimension letters

Item	Detail
X	Overall length including handwheel
Y	Overall width
Z	Overall height
S	Clearance above cover
C	Mounting flange bolt circle diameter
A	Mounting bolt thread (4 holes)
B	Mounting bolt thread depth

Ordering code

Bushing codes for DelVal and Bray valves

Bushing code	Dimensions (in.)	Dimensions (mm)	Applicable actuator size	Matching valve size, Series 50/52
XXX	no insert	no insert	no insert	---
01D	0.551 x 0.394	14 x 10	010	2", 2.5", 3"
02D	0.630 x 0.433	16 x 11	010	4"
03D	0.748 x 0.512	19 x 13	010	5", 6"
04D	0.866 x 0.630	22 x 16	021	8"
05D	1.181 x 0.866	30 x 22	050	10" & 12"
22R	1.38 dia. (round & keyed)	35	050, 080	14" & 16"
23R	1.97 dia. (round & keyed)	50	300	18" & 20"
24R	2.50 dia. (round & keyed)	64	300	24"

Torque output and performance

Technical data by model

Model		2E 010	2E 021	2E 050	2E 080	2E 300*
Rated torque (Lbs-Inch)		885	2,124	4,425	7,080	26,550
Rated torque (Nm)		100	240	500	800	3000
Operating time (second)	50Hz	21	26	31	39	59
Operating time (second)	60Hz	18	22	26	32	50
Actuator Bushing Connection Sizes (Inch)	Double D	0.75 x 0.51	0.87 x 0.63	1.18 x 0.87	–	–
Actuator Bushing Connection Sizes (Inch)	Round & Keyed	–	–	1.38 / 0.39x0.39	1.38 / 0.39x0.39	1.97 / 0.39x0.47
Actuator Bushing Connection Sizes (mm)	Double D	19 x 13	22 x 16	30 x 22	–	–
Actuator Bushing Connection Sizes (mm)	Round & Keyed	–	–	35 / 10x10	35 / 10x10	50 / 10 x 12
Rated current (A)	1Phase / 110V / 50HZ	0.98	1.62	3.6	3.9	–
Rated current (A)	1Phase / 110V / 60HZ	1.1	1.72	3.9	4.2	–
Rated current (A)	1Phase / 220V / 50HZ	0.52	0.87	1.5	2.05	3.75
Rated current (A)	1Phase / 220V / 60HZ	0.58	0.9	1.6	2.2	3.85
Rated current (A)	3Phase / 380V / 50HZ	0.43	0.32	0.52	0.82	1.6
Rated current (A)	3Phase / 380V / 60HZ	0.33	0.32	0.56	0.88	2
Rated current (A)	3Phase / 440V / 50HZ	0.59	0.32	0.55	0.82	2.5
Rated current (A)	3Phase / 440V / 60HZ	0.42	0.35	0.58	0.88	2.4
Rated current (A)	24 VDC	2.8	5	N/A	N/A	N/A
Motor insulation class		F	F	F	F	F
ISO 5211 mounting flange		F07	F07/F10	F10/F12	F12/F14	F16
Weight (Lbs)		15	33	44	55	93
Weight (Kgs)		7	15	20	25	42
No. of handwheel turns		10	12	14	17	13

* Contact UEC for delivery

Ordering code

How to order

Series	Size	Motor and power supply / No. of phases	Motor and power supply / Volts	Motor and power supply / Hz	Actuator enclosure / Insert size	Actuator bushings / Insert size	Special options
2E = Quarter Turn Electric Actuator	010 = 885 In-Lbs	0=For DC option	1 = 110 VAC	0=For DC option	W = Waterproof IP 67	Please see "Bushing Codes" below	00= No special requirements
	021 = 2,124 In-Lbs	1 = 1 Phase	2 = 220 VAC	1 = 50 Hz	T = Watertight IP 68		MC = Modulating Control Card
	050 = 4,425 In-Lbs	3 = 3 Phase	3 = 380 VAC	2 = 60 Hz	E = Explosion Proof Ex d IIT 5		
	080 = 7,080 In-Lbs		4 = 440 VAC				
	300 = 26,550 In-Lbs		5 = 24 VDC				

For a quotation, send the size, pressure rating, materials, operator and quantity to UEC by phone, WhatsApp or email. Data as published by DelVal Flow Controls; DelVal and DelTorq are trademarks of DelVal Flow Controls.