





Electric 90/180 Degree Turn Actuators										
Suitable for:- 2/3 Way Ball, Butterfly & Plug Valves where remote operation is required. The size of the actuator is important to cover the needs of the valve under the stress that is likely to be encountered in the worst condition of service line pressure to be used and the natural stiffness of opening and closing of a valve, even after prolonged lack of use. It is wise to operate valves regularly. Prices of Valve and fixings need to be added to the actuators. Actuator Fixings to ISO 5211.										
										
HQ4			HQ5			HQ8			EL300	
HQ Range is 100% Rated on Standard Mode & 80% Rated on Modulation Mode.								EL Range is 75% Rated on Standard Mode		
Electric Actuator HQ4, HQ5 & HQ6					Electric Actuator HQ8 To HQ 300				Electric Actuator EL300	
HQ4 & HQ6 (TO IP 67) Data Sheet			HQ5			HQ8 (TO IP 67) Data Sheet			EL300 (TO IP 67) Data Sheet	
Type	Ref	Torque N/METER	TIME SECOND	WEIGHT KG	AMPS @ 240V/60HZ	MANUAL OVERRIDE	240 V	110V	3 PHASE	PRICE £
HQ 004	38HQ4	40	12	3	0.19	*	*	*	-	£183.04
HQ 005	38HQ5	50	12	3	0.19	*	*	*	-	£183.04
HQ 006	38HQ6	60	12	3	0.19	*	*	*	*	£281.67
HQ 007	38HQ7	70	12	3	0.19	*	*	*	*	-
HQ 008	38HQ8	80	13	7.4	0.55	*	*	*	*	£469.76
HQ 015	38HQ15	150	21	16.6	0.88	*	*	*	*	£592.02
HQ 020	38HQ20	200	21	16.6	0.89	*	*	*	*	£682.11
HQ 030	38HQ30	300	26	22	0.92	*	*	*	*	£765.77
HQ 040	38HQ40	400	-	-	-	-	-	-	-	-
HQ 050	38HQ50	500	26	22	0.92	*	*	*	*	£853.28
HQ 060	38HQ60	600	26	23	0.6	*	*	*	*	£962.68
HQ 080	38HQ80	800	28	29	2.15	*	*	*	*	£1,100.55
HQ 120	38HQ120	1200	28	29	2.35	*	*	*	*	£1,317.89
HQ 200	38HQ200	2000	93	75	2.15	*	*	*	*	£2,006.29
HQ 300	38HQ300	3000	93	75	2.35	*	*	*	*	£2,516.25
-	-	-	-	-	Amps12v	-	12Vdc	24Vdc	-	-
EL300	38EL300	35	12	2	0.6	*	*	*	*	£264.00
To find 380v amperage * .58. Larger sizes, other voltages, speeds & Tourques available. & = Non Standard Design * = available. Regular dry running of low use applications is essential.										
Spring Return Versions - 15 NM to 400 NM available IP42 to 65 also										
Multi Turn Versions										
Used for linear operation of Gate, Globe & Diaphragm valves Torque & Limit. Travel switches are fitted as standard plus other features as indicated for the quarter turn versions.										
Ref.	Torque N/meters	Speed RPM	Weight Kgs	Manual Override	240v	110v	3 Phase			
A	40-150	3-121	11	*	*	*	*			
B	50-400	2-190	25	*	*	*	*			
B1	100-500	5-118	32	*	*	*	*			
C3	300-800	8-155	72	*	*	*	*			
D1	700-1400	May-85	155	*	*	*	*			
E1	1000-2700	6-100	240	*	*	*	*			
Positioning 4-20 M/amps or 1-10v dc Control. This facility can be on slow turning versions of the above and are quoted upon request.										

Pneumatic 90 Degree Operation										
Suitable for:- 2/3 Way Ball, Butterfly & Plug Valves where remote operation is required. The size of the actuator is important to cover the needs of the valve under the stress that is likely to be encountered in the worst condition of service line pressure to be used and the natural stiffness of opening and closing of a valve, even after prolonged lack of use. It is wise to operate valves regularly. Three way ball bottom entry ball valves require the ball plug machined at right angles so as take advantage of the 90 degree rotation. Bodies are anodised aluminium & are of simple neat design with spares available. Use clean filtered air always and restrictors for controlling speed of operation. Prices of Valve and fixings need to be added to the actuators.										
										
Pneumatic Actuator (TO IP 67) Data Sheet						Limit SwitchBox (TO IP 67)				
Type	Ref. D/A	Torque Nm.D/A	Ref. S/A	Torque Nm S/A	Wt. Kgs	Indicator	Manaul Override	Limit Box +	D/Act £	S/Act £
HPS/D 50	38HPD50	18.3	38HPS50	10.2	6.6	1.16	*	£56.93	£75.90	£88.55
HPS/D 63	38HPD63	32.9	38HPS63	19.6	12.7	1.68	*	£56.93	£88.55	£113.85
HPS/D 66	38HPD66	46.1	38HPS66	27.9	17.3	2.40	*	£56.93	£113.85	£139.15
HPS/D 75	38HPD75	63.2	38HPS75	36.7	21.7	3.00	*	£56.93	£126.50	£151.80
HPS/D 88	38HPD88	101.4	38HPS88	57.4	32.1	4.30	*	£56.93	£151.80	£177.10
HPS/D 100	38HPD100	150.1	38HPS100	89.3	55.6	6.00	*	£56.93	£189.75	£215.05
HPS/D 115	38HPD115	236.5	38HPS115	138	79.5	9.00	*	£56.93	£240.35	£265.65
HPS/D 125	38HPD125	304.8	38HPS125	179	107	11.30	*	£56.93	£278.30	£316.25
HPS/D 145	38HPD145	478.5	38HPS145	281	170	14.10	*	£56.93	£354.20	£404.80
HPS/D 160	38HPD160	624.2	38HPS160	355	225	22.00	*	£56.93	£480.70	£543.95
HPS/D 180	38HPD180	842.2	38HPS180	463	274	26.50	*	£56.93	£733.70	£847.55
HPS/D 200	38HPD200	1169.8	38HPS200	660	414	38.40	*	£56.93	£885.50	£1,087.90
Namur Solenoid Valve with bolts for above + £57.00 all voltages.										
Torque figures based on 80 psi air supply pressure.										
Economy assemblies of valves are available see pages 17 & 9 (Same approx figure applies to basic electric actuator mounting)										
Weight is for Double Acting Type. Single acting weigh & cost more.										
Spring Return:- Normally Closed (NC) or Normally Open (NO) units are designated with 'SR' suffix. Mounting of this option is directly within the ends of the standard actuator...										
Torque figures must be halved, to those given when sizing valve because of the spring. Note must be made that there is a difference between figures of the start & finish of rotation torque. Figures above show figures at the end of travel.. End of stroke travel adjustment is standard on basic actuator.										
Limit Box:- Two switches (SPDT) are fitted into this polycarbonate box that conforms to IP66 spec. Adjustable end of travel cams are adjustable with the V3 switches. 10ap switching at 240 volts. Units are suffixed '004' on the main reference. Units are mounted on top of double acting or single acting versions with standard fixings. Single cable entry M20 * 1.4mm connection is standard. Other switch systems available.										
Positioner:- 3-15 lbs/ins proportional signal control controls the amount of opening of the actuator over the same degree on its turning arc. Body is Epoxy coated AL with bronze and stainless inners. Diaphragm is in moulded rubber. Adjustment to range & zero is standard. Special limit range cams available. 4-20mA IP converters can be supplied to adapt to pneumatics. Air consumption at 5.5 bars is 14 l/M. Sensitivity = 7 millibars										
General:- All of the above can be mounted together to all the combined functions. Some applications may suit other units.										

