



ULTRA EFFICIENT ELECTRIC VALVE ACTUATORS

THE WORLD'S FIRST RIFT DRIVEN® ELECTRIC ACTUATOR For Part Turn & Multi-Turn Applications



The **SmartAct®-1** electric valve actuator is the world's first RIFT DRIVEN® product.

Its revolutionary British design has a single glass reinforced polypropylene housing that contains the RIFT motor system and gearbox. The **SmartAct®-1** can be configured to produce a range of output torques up to 100Nm.

Smart, state of the art electronics provide accurate, reliable and repeatable performance characteristics and enables a comprehensive list of standard and optional features to be offered. Optional extra cost features include failsafe and/ or modulating functionality; speed control and fieldbus communications are available to customer order.

At a time where energy consumption is becoming increasingly important to the world, the **SmartAct®-1** actuator takes full advantage of the dramatic reduction in energy that the RIFT DRIVEN® system provides. This creates an electric actuator with the lowest energy usage figures available in the world market.

SmartAct®-1 Features

Standard:

Universal power supply 12-300V

Anti-condensation heater

Over-torque protection

Torque range 40, 60, 80, 100Nm

SO5211 / EN15714-2 compliant

Weatherproof

Local controls

2 x M20 x 1.5 Cable entries

Options:

Failsafe

Modulating

Fieldbus communications

Speed control

Data logging

Torque profiling

Solenoid Function

2 x 1/2" NPT Cable entries

Of-Grid and Timer Facility

Multi-Turn Function

MADE IN BRITAIN

The **SmartAct®-1** electric actuator was conceived, designed, prototyped, and is being manufactured in Britain.

THE RIFT DRIVEN® ADVANTAGE

RIFT is a new British innovation; significantly enhancing the motor characteristics resulting in a powerful, light, and yet energy efficient motor driven product.

HUGELY ENERGY EFFICIENT

A RIFT DRIVEN® product contains the RIFT technology that will transform motor driven systems in the future. They show weight and energy savings of over 75% compared to traditional motor driven systems.

In actuator comparison tests the **SACO** valve actuator is in fact over 90% more energy efficient than the market leading electric actuators it was compared with.

PID CONTROL

Combining PID control with a 10 bit magnetic electronic position sensing system, the **SACO Smartact-1** actuator gives very accurate positioning and timing capabilities. Part Turn or Multi-Turn applications can be configured with accuracy up to at least 1/4 of a degree on most valves.

OPTIONAL SOLENOID FUNCTION

A huge advantage of the **SACO** actuator is that it is capable of very fast cycle times. This allows it to be used as a direct acting solenoid. Fitted to a full bore ball valve it eliminates the difficulties traditional solenoids face when used with dirty media.





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DEFAULT SPECIFICATION/ CONFIGURATION

Model		SmartAct-1-40	SmartAct-1-60	SmartAct-1-80	SmartAct-1-100
Maximum continuous torque	Nm	40	60	80	100
Over torque trip setting	Nm	44	66	88	110
Working time 0-90°	Actuator / (Solenoid) Seconds	4 (2)	8 (2)	12 (2)	16 (2)
Anti-condensation heater	Watts	5	5	5	5
Cable Entries (2)		M20x1.5	M20x1.5	M20x1.5	M20x1.5
ISO5211 Mounting		F03, F04 & F05	F07 & F10	F07 & F10	F07 & F10
Output drive square	mm	14	17	17	17
Output drive orientation		0 /45°	0 /45°	0 /45°	0 /45°
Ingress Protection		IP67	IP67	IP67	IP67
Supply voltage AC(50/60Hz)/DC	Volts	10-30	10-30	10-30	10-30
Supply voltage AC(50/60Hz)/1ph	Volts	24 & 85-300	24 & 85-300	24 & 85-300	24 & 85-300
Max current DC	Amps	540mA at 10V	540mA at 10V	540mA at 10V	540mA at 10V
Max current AC	Amps	65mA at 85V	65mA at 85V	65mA at 85V	65mA at 85V
End of travel relays (2)	Max Volts/ Max Amps	300/ 0.9	300/ 0.9	300/ 0.9	300/ 0.9
Ambient temperature range	°C	-20 to +70	-20 to +70	-20 to +70	-20 to +70
Weight	Kg	2.1	2.1	2.1	2.1

OPTIONS

Option	Choice 1	Choice 2	Choice 3	Choice 4	Choice 5
Working angle or Multi-Turn Function	0-90°	0-180°	Custom	Multi-Turn	
Output drive orientation	45°	0°			
Mounting Flange	F03, F04, F05	F07, F10			
Drive Adapter	11	14	17	22	Custom
Indication Mode	2 Way	L mixing	L diverting	T mixing	T diverting
Cable Entries	2 x M20	2 x ½" NPT			
Failsafe	NC	NO	Stay Put	% Open	
Modulating	4-20mA	0-20mA	0-10V		
Modulating Loss of Signal	Close	Open	Stay Put	Custom	
Speed Control	Set time 0-90	Dribble			
Torque Limit	Custom				
Fieldbus Communications (available Q4 2014)	Profibus	Modbus			
Reverse Acting	Close CCW				
Data logging	Advanced				
Solenoid only	NC	NO	Latching		
Off-Grid and Timer Facility – for bespoke timed solutions	Start Cycle	Open Duration	Cycle Interval		
Customer branding	Lid Colour	Dome Label			

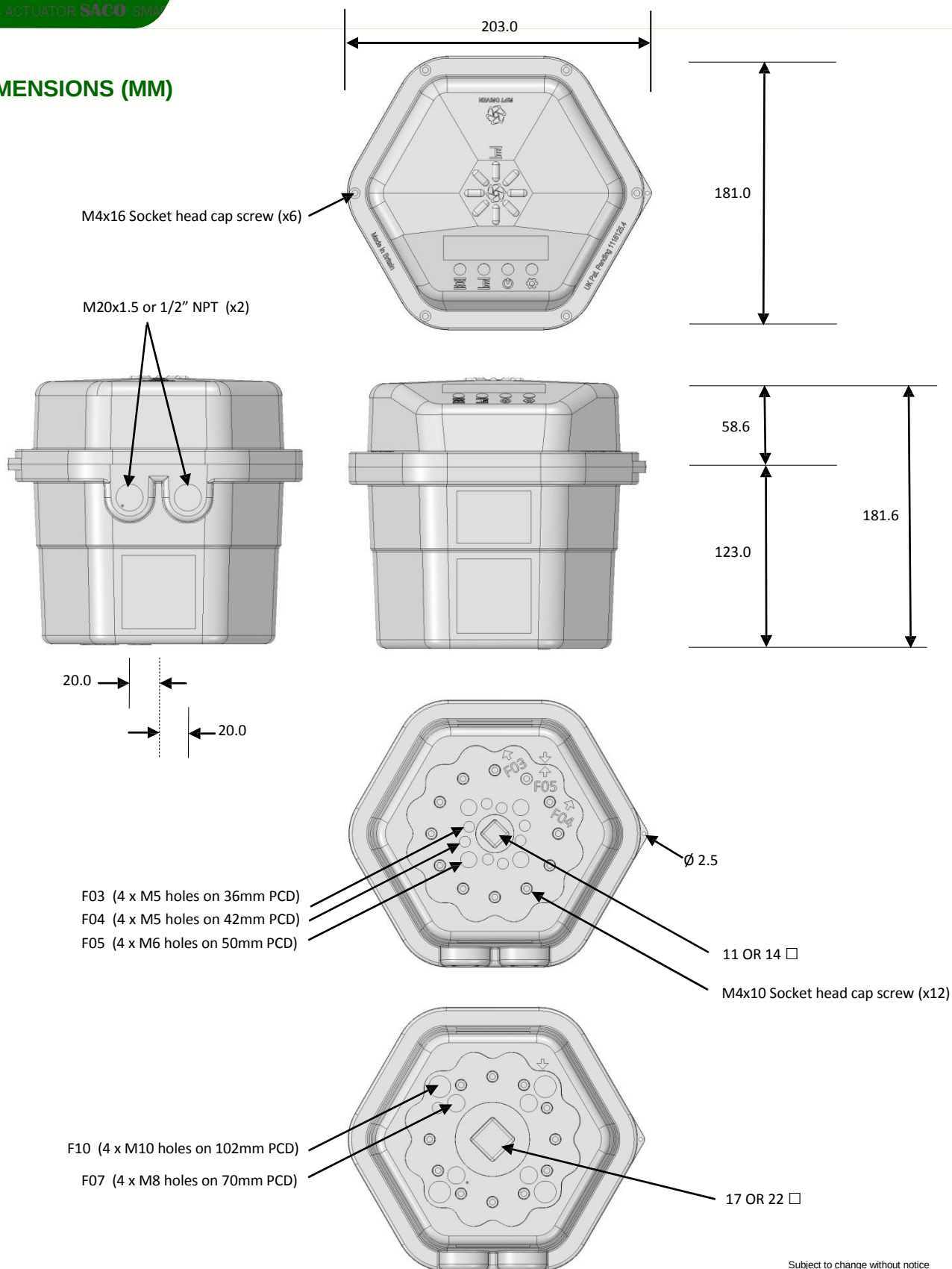
Subject to change without notice





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DIMENSIONS (MM)



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