

USE

The servomotor SM100 operates **IDROSFER** two and three-way ball valves:

ART. 105 - 109 - 88 - 95 from DN 32 to DN 50

ART. 78 - 79 from DN 20 to DN 50

ART. 92 - 93 from DN 25 to DN 50

The valve and the servomotor are connected by means of **ISO F05** flanges.

COMPONENTS

The structure of the servomotor is made of self-extinguishing polyamide resin with high mechanical resistance according to **UL94VO**.

The gears are made of heat-treated milled metal.

The servomotor is fitted with a cable clamp **PG11** made in self-extinguishing polyamide.

The product complies with the main requirements of the Directives :

CEE 89/336 - 73/23 - 93/68 ; UE 2002/95/EC ; UE 2002/96/EC (ROHS and WEEE).

OPERATION

The reversible synchronous electric motor is driven by an electric three-step output from:

- **ON-OFF** controller (thermostat, remote control switch, manual commutator);

- Modulating controller with output **OPEN-STOP-CLOSE**.

The model with incorporated auxiliary relay is ideal to be driven by a controller with break output contact.

An auxiliary microswitch with output with three potential-free steps is included in the kit.

On request a second auxiliary microswitch is available.

The angular stroke is set at **90°** in factory

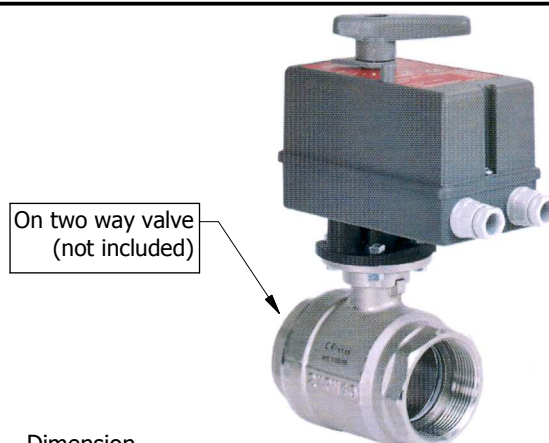
Using the cams you can change it within the range **0°-180°**.

The servomotor is equipped with a mechanical release to install the valve **MANUALLY**: release the proper button and reset the power supply, the valve automatically moves again as set by the controller.

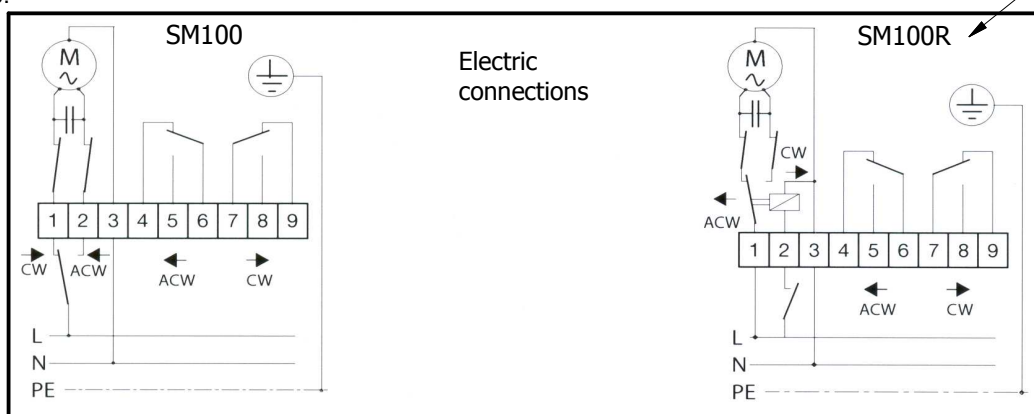
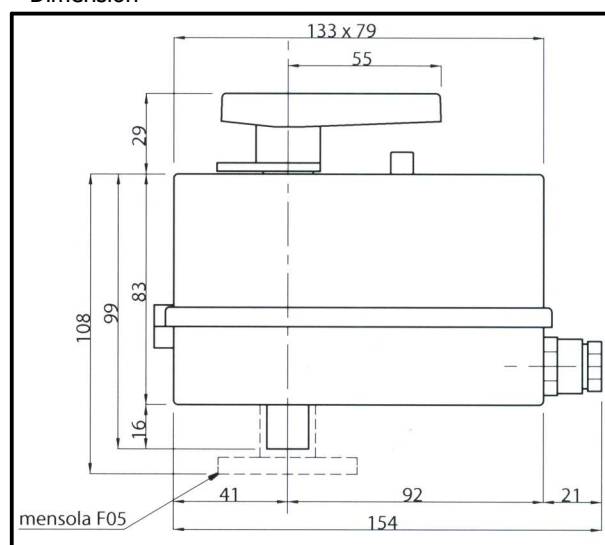
The version with incorporated auxiliary relay (**available on request**) is suitable to be controlled by a regulator with output contact interruption (**model SM 100 R**).

WARNING

Wiring diagram inside cover. Always connect the ground cable. Skilled staff must provide for the installation and the electric connection in compliance with the **EEC Norm 46-90**.



Dimension



TECHNICAL DATA	SM100-030	SM100-060	SM100-180
Power supply	230 VAC ±10% - 50 Hz		
On request	24 VAC ±10% - 50 Hz (110 VAC - 50/60 Hz)		
Absorption	4 VA		
Time for 90° rotation	30 (20*)sec.	60 sec.	180 sec.
Max torque	12 Nm	20 Nm	25 Nm
Protection degree	IP42 (IP65 on request)		
Auxiliary microswitch	16/4 A 250 VAC EN 61058-1		
Max connection power	400 VA		
Relay for unipolar control	model SM100R		
Working temperature	-10° +50°C		
Weight	0,900 Kg		
Valve connection	ISO 5211 - DIN 3337 F05 - square 11mm		

*Special version on request!