

USE

The servomotor SM80 operates **IDROSFER** two and three-way PM ISO ball valves:

ART. 105 - 109 - 88 - 89 - 95 from DN 15 to DN 25

ART. 78 - 79 DN 15

ART. 92 - 93 from DN 15 to DN 20

The valve and the servomotor are connected by means of **ISO F03** flanges.

COMPONENTS

The structure of the servomotor is made of self-extinguishing polyamide reinforced with glass 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.

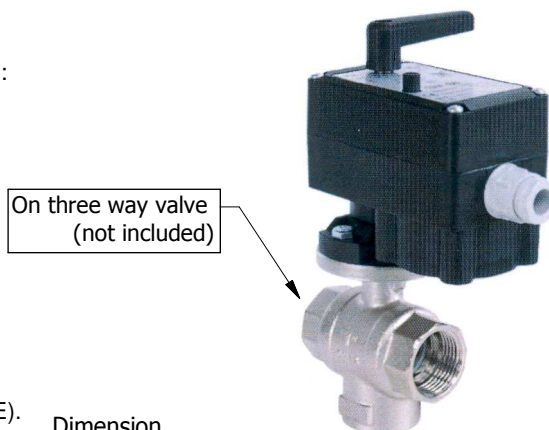
Using the cams you can change it within the range **0°-180°**.

The servomotor is equipped with a mechanical release to install the valve **MANUAL-LY**:

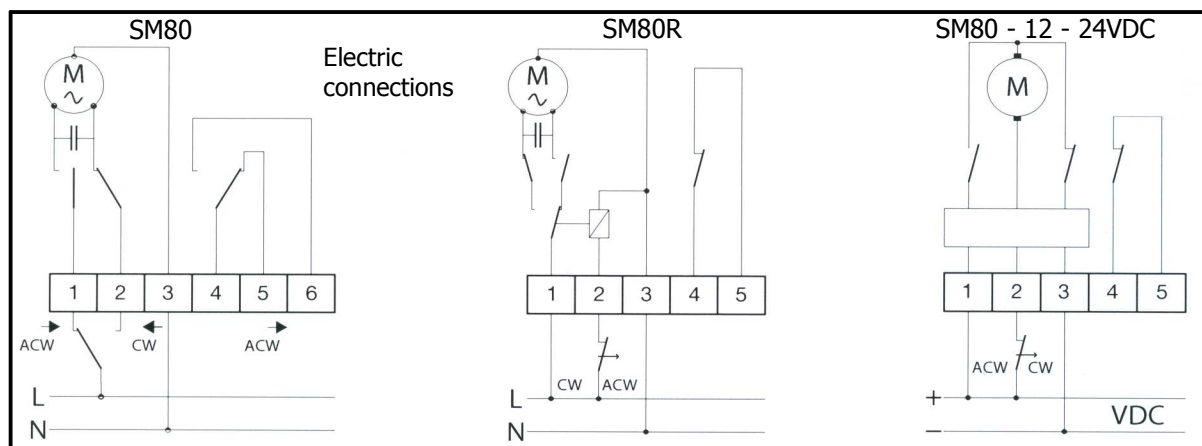
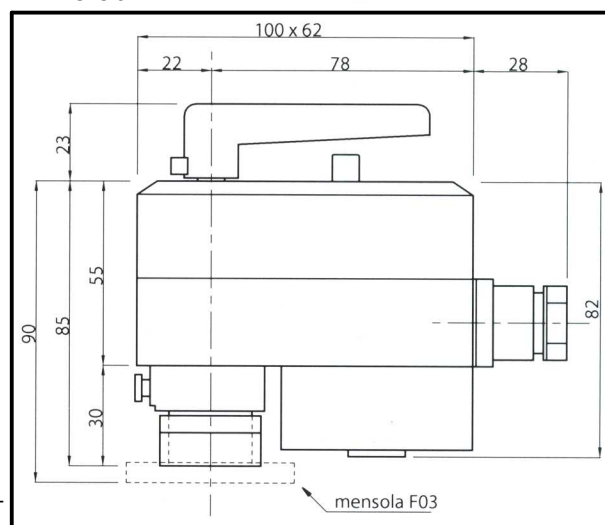
release the proper button and reset the power supply, the valve automatically moves again as set by the controller.

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	SM80-015	SM80-045	SM80-060	SM80-130
Power supply	12 VDC	230 VAC $\pm 10\%$ - 50 (60) Hz		
On request	24 VDC	24 VAC $\pm 10\%$ - 50 Hz		
Absorption	1,3 VA	2,5 VA		
Time for 90° rotation	15 sec.	45 sec.	60 sec.	130 sec.
Max torque	12 Nm	9 Nm	10 Nm	12 Nm
Protection degree	IP42 (IP65 on request)			
Auxiliary microswitch	10 (2) A 250 VAC EN 61058-1			
Max connection power	400 VA			
Relay for unipolar control	model SM80R			
Working temperature	$-10^{\circ} + 50^{\circ}\text{C}$			
Weight	0,600 Kg			
Valve connection	ISO 5211 - DIN 3337 F03 - square 9mm			