## ECH 90-25 TYPE



Protection rate: **IP40**Insulation class: **B** (130°C)
Reference cycle: **5 minutes**Standard stroke (s): **25 mm**Temperature rise " $\Delta$ V<sub>31</sub>": **70°C**Working temperature: **-10 to 45°C** 

Work: **Push** / Pull



Optional spring force: Fs(s=0mm) = 48.5N Fs(s=15mm) = 18N

Release spring NOT incorporated in standard product.

(ED) Duty-cycle ED(%)	100	40	25	15	5			
(P20) Power at 20°C (W)	55	125	190	300	900			
(Fm) Solenoid force (N) 1)	72	110	150	190	300			
Max time under voltage(s)	Inf	120	75	45	15			
Opening time (ms) 2)	651	488	417	332	307			
Release time (ms) 3)	399	301	259	208	193			
Plunger weight (Kg)	0.650							
Solenoid weight (Kg)	5.2							

- 1) Fm Solenoid force is given acording to VDE0580 without deducting the spring force or the plunger weight if vertical mounting.
- 2) Time is given on these conditions: Coil supplied under nominal voltage; Stabilized in it's working temperature; Load 70% of the solenoid force; Horizontal assembly; Standard stroke initial position; 20°C ambient temperature.

Duty-cycle	Standard voltages							Under demand					
·	VDC						VAC		VDC		VAC		
ED%	6	12	24	48	100	125	205	110	230	Min	Max	Min	Max
100	Х	0	0	0	0	0	0	0	0	12	250	28	230
40	Х	Х	0	0	0	0	0	0	0	18	250	60	230
25	Х	Х	0	0	0	0	0	0	0	22	250	95	230
15	Х	Х	0	0	0	0	0	Х	0	24	250	150	230
5	Х	Х	0	0	0	0	0	Х	Х	24	250	Х	Х

Layout: o = Available ; x = Unavailable

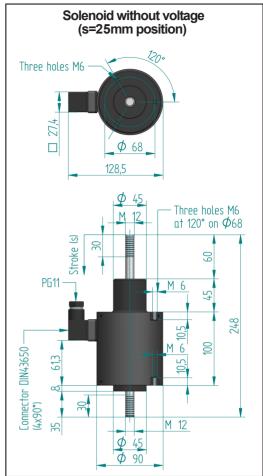
- Voltage under demand:
- They can be manufactured at voltages between the maximum and minimum voltage values shown in the chart.
- To feed in alterning current the solenoid will have a rectifier incorporated in the connector.
- The duty cycles described in the chart are standard, they can be manufactured in any intermediate value.
- If any customization from the original is needed, please ask us.
- Earthing is recommended if the metallic parts are accessible.

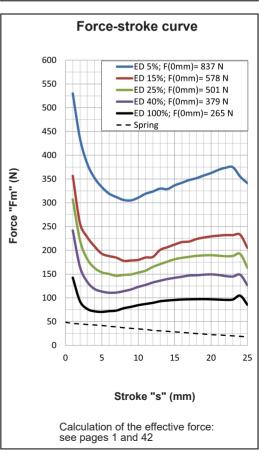
Ordering code: ECH90-25 --V ED---% - Spring

Voltage: 24Vdc; Duty cycle: ED100%; With spring: ECH90-25 24Vdc ED100% RS

Voltage: 48Vdc; Duty cycle: ED15%; Without spring: ECH90-25 48Vdc ED15% RN

Spring yes: RS ; Spring no: RN





For fixation and mounting positions: see page 42