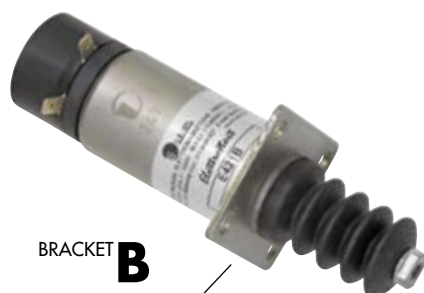


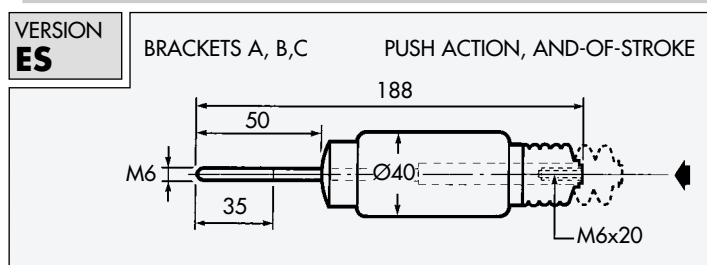
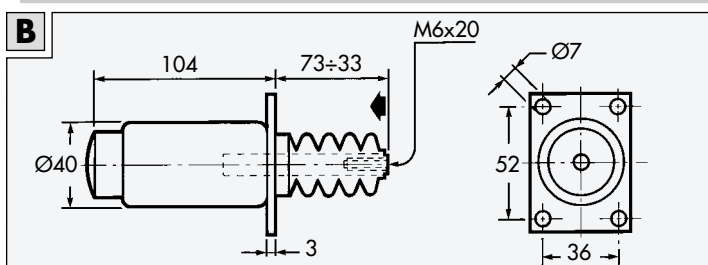
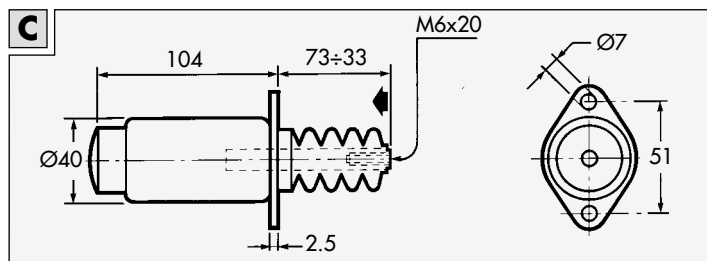
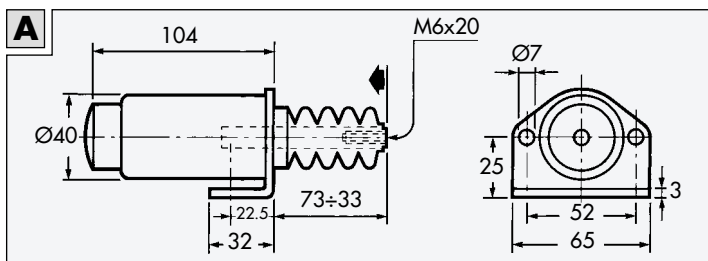
BRACKET **A**



BRACKET **B**



BRACKET **C**



#### SPECIFICATIONS

Rated voltage	12 V DC	24 V DC
Pull current	31 A	15.2 A
Hold current	0.53 A	0.29 A
Duty service	Continuous (100%)	
Stroke	40 mm	
Force at starting	1.7 Kg	
Windings insulation class	H (180° C)	
Ambient temperature	-40° C ÷ 120° C	
Weight	0.76 Kg	

#### OPERATION

The solenoid has two windings:

An intermittent-service pulling winding involved in the initial phase for approximately 150 ms, with the function of moving the plunger.

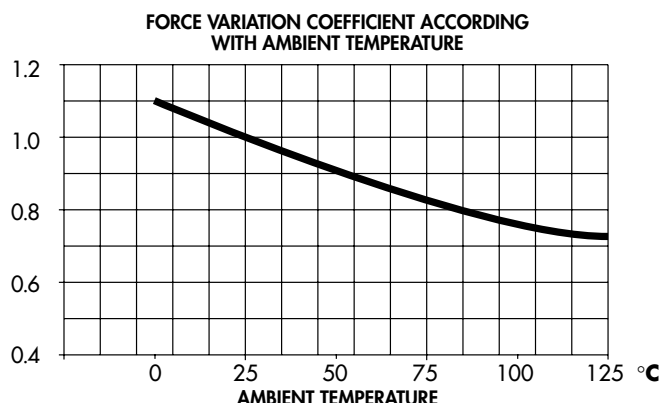
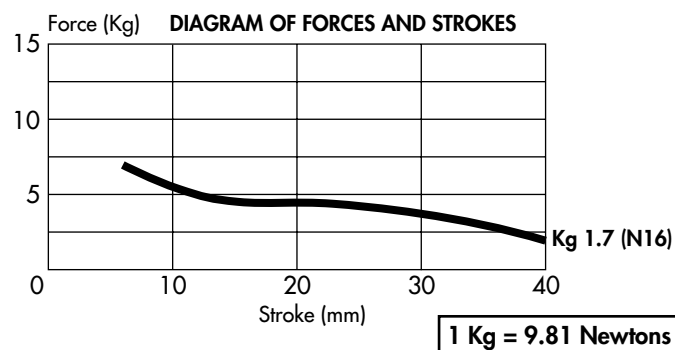
A continuous-service holding winding, with the function of maintaining the plunger in position.

For a proper operation of the solenoid, it is indispensable for the plunger to reach end of travel and to obtain the perfect adherence to the bottom.

#### AVAILABLE OPTIONS

The desired model has to be defined choosing one option in every column, building in this way the solenoid code.

Versions	Voltages	Circuits	Brackets	Optional Springs	Electrical connections
<b>E4</b> pull action	<b>1</b> = 12 V DC	<b>1</b> = Series 1	<b>A</b>	<b>M1</b>	Standard Faston
<b>ES4</b> pull-push action	<b>2</b> = 24 V DC	<b>2</b> = Series 2	<b>B</b>	<b>M2</b>	<b>F</b> = Cables
		<b>3</b> = Series 3	<b>C</b>	<b>M3</b>	<b>V</b> = Faston - screws



### DUAL COIL SOLENOID FOR PULL ACTION OR PULL-PUSH ACTION

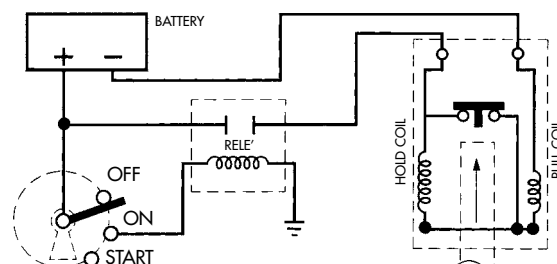
#### ELECTRIC CIRCUITS FOR DIESEL ENGINES

##### SERIES 1

##### WITH INTERNAL SWITCH

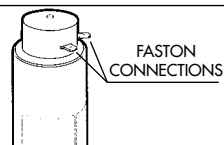
#### DIRECT ELECTRIC CIRCUIT

The solenoid connection is not conditioned by the polarity (+ and -)  
In the version with cables these are blue.

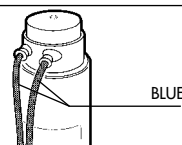


#### ELECTRICAL CONNECTIONS

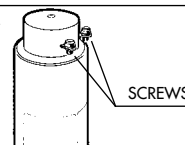
BY FASTON



BY CABLES **F**



BY SCREWS **V**

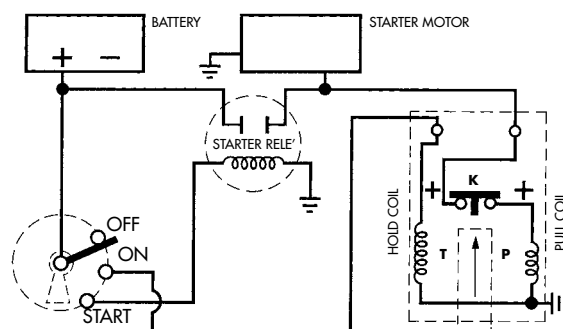


##### SERIES 2

##### WITH INTERNAL SWITCH

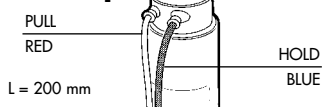
#### ELECTRIC CIRCUIT COMBINED WITH STARTER MOTOR

The solenoid connection feeding the pull coil P and the hold coil T is marked with the indication PULL (red cable) and HOLD (blue cable). The body is connected to ground. The pull coil P is fed in parallel with the starter motor: the red cable connected to the positive of the starter motor and the blue cable connected to the positive of the key switch. The auxiliary switch K ensures disconnection of the coil P and prevents the possible damaging return of parasitic currents.



#### ELECTRICAL CONNECTIONS

BY CABLES **F**

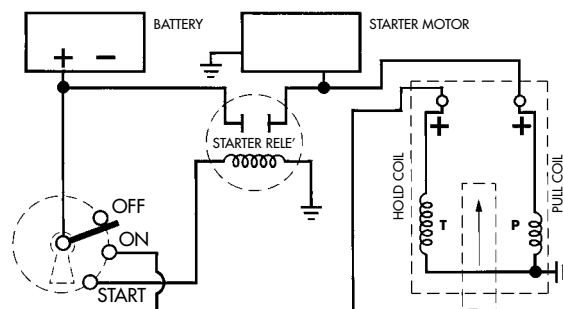


##### SERIES 3

##### WITHOUT INTERNAL SWITCH

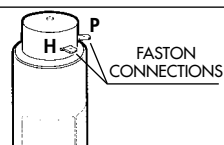
The connection of the solenoid is the same as for the Series 2. The pull coil P and the hold coil T are respectively marked PULL and HOLD.  
The negative common in the version with faston is at ground.

- Designed for coupling with starter motor.
- Designed for external switch (Code CEI IE04 - timed static electronic switch ideal for dusty or saline environments and in applications with repeated accelerations).

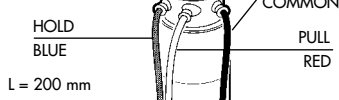


#### ELECTRICAL CONNECTIONS

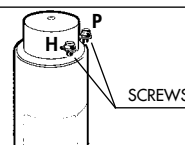
BY FASTON  
SMALL AND  
LARGE



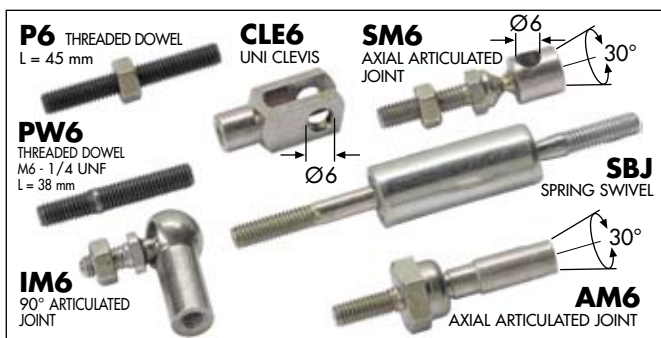
BY CABLES **F**



BY SCREWS **V**



#### ACCESSORIES WITH M6 THREAD



#### OPTIONAL SPRINGS

INTERNAL SPRING 4M1		INTERNAL SPRING 4M2		INTERNAL SPRING 4M3	
WIRE DIAMETER SPRING 1		WIRE DIAMETER SPRING 1.2		WIRE DIAMETER SPRING 1.3	
Kg 0.4 at 25 mm	Kg 1.5	Kg 0.9 at 25 mm	Kg 3.0	Kg 1.1 at 25 mm	Kg 4.0