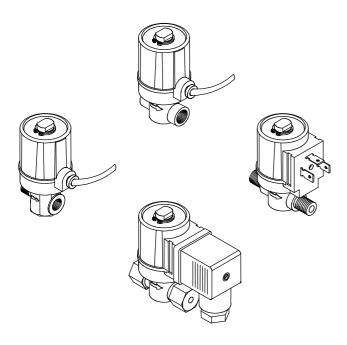


## E7/... SERIES

# SOLENOID VALVES FOR LIGHT OIL, OPERATING PRESSURE UP TO 20 bar.



#### **GENERAL DESCRIPTION**

This series solenoid valves are of normally closed type, quick operating, suitable for civil and industrial applications, supplied with alternate or direct current and can be fitted with a wide range of connections which make the assemblage easier and permit to avoid the utilisation of junctions, often onerous and quite unpractical.

Versions marked with "U" in their body type reference, even "TS-S" version, are UL approved.

#### **TECHNICAL FEATURES**

Supply voltage (1): 230 V / 50 Hz Supply voltage for UL approved versions: 220 V / 60 Hz

120 V / 60 Hz

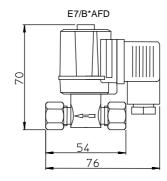
Operating pressure range:  $0 \div 20$  bar (orifice ø 1,5 mm)

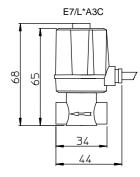
 $0 \div 18$  bar (orifice  $\emptyset$  2 mm)  $0 \div 2$  bar (orifice  $\emptyset$  4 mm)

Room temperature: 0 ÷ 60 °C Maximum fuel temperature: 20 ℃ Closing and opening time: ≤ 1 s Consumption: 11 VA Flow (2): 0.055 m<sup>3</sup>/h Weight (2): 230 g Mounting position: all Body: die-cast brass

- (1) Versions with different supply voltage are available.
- (2) These values are indicative, as with the changing of utilised body type, removals from indicated values can occur.

#### **OVERALL DIMENSIONS**









CONNECTIONS Input: G1/4" M Output : G1/4" M Orifice diameter: 1.5 mm Nut connection: G1/4" orifice 4 o 6 mm ogive orifice 4 o 6 mm

#### E7/B4



CONNECTIONS: Input: G1/4" M Output : G1/4" M Orifice diameter: 1.5 mm Nut connection: G1/4" orifice 4 o 6 mm ogive orifice 4 o 6 mm

#### E7/BS



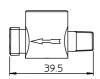
CONNECTIONS: Ingresso: G1/8" F Uscita : R1/8" M Foro di passaggio: 1.5 mm

# E7/C

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CONNECTIONS: Input: R1/8" M Output : G1/8" F Orifice diameter: 1.5 mm

#### E7/F



CONNECTIONS Input: R1/8" M Output: G1/4" M Orifice diameter: 1.5 mm Nut connection: G1/4" orifice 4 o 6 mm ogive orifice 4 o 6 mm

#### E7/L



CONNECTIONS: Input: G1/8" F Output : G1/8" F Orifice diameter: 15 mm

#### E7/L4



CONNECTIONS: Input: G1/8" F Output : G1/8" F Orifice diameter: 4 mm

#### E7/0



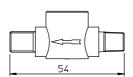
CONNECTIONS: Input: G1/8" M Output: G1/8\* M Orifice diameter: 1.5 mm Nut connection: G1/8" orifice 4 mm ogive orifice 4 mm

#### E7/R

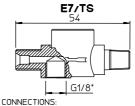


CONNECTIONS: Input: M8x1 F Output : G1/4" M Orifice diameter: 2 mm Nut connection. G1/4" orifice 4 or 6 mm ogive orifice 4 or 6 mm

#### E7/T



CONNECTIONS: Input: R1/8" M Output: G1/8" M Orifice diameter: 1.5 mm Nut connection: G1/8" orifice 4 mm ogive orifice 4 mm



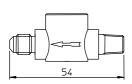
Input: R1/8" M Output: G1/8" M Orifice diameter: 15 mm Nut connection: G1/8" orifice 4 mm ogive orifice 4 mm

#### E7/L-US



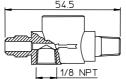
CONNECTIONS Input: 1/8" NPT F Output: 1/8" NPT F Orifice diameter: 1.5 mm

#### E7/T-US



CONNECTIONS: Input: 1/8" NPT M Output: 3/8-24 M Orifice diameter: 1.5 mm

#### E7/TS-US

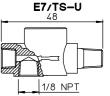


CONNECTIONS: Input: 1/8" NPT M Output: 7/16-20 M Orifice diameter: 1.5 mm

#### E7/US

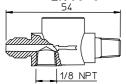


CONNECTIONS: Input: 1/8" NPT M Output: 1/8" NPT F Orifice diameter: 1.5 mm



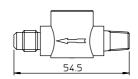
CONNECTIONS: Input: 1/8" NPT M Output: 1/8" NPT F Orifice diameter: 1.5 mm

### E7/TS-S



CONNECTIONS: Input: 1/8" NPT M Output: 3/8-24 M Orifice diameter: 1.5 mm

#### E7/T-U



CONNECTIONS: Input: 1/8" NPT M Output: 7/16-20 M Orifice diameter: 1.5 mm



Ogive: orifice 4 mm



Ogive: orifice 4 mm



Nut: G1/8" orifice 4 mm Nut: G1/4" orifice 4 mm Nut: G1/4" orifice 6 mm Ogive: orifice 6 mm







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#### **INSTALLATION**

- Respect the applicable national and European standards (e.g. EN 60335-1) regarding electrical safety.
- Even in the versions without earth conductor the installation must ensure the valve body connection to earth to guarantee adequate protection against the risk of electric shock (EN 60335-1).
- Assemble the valve to the installation so that the arrow on the valve body has the same direction as the fuel flow.
- During the assembly of the valve to the installation piping, do not twist on the sheath but on the valve body.
- Make sure that no foreign matters have entered the valve body.
- Always fit a filter to the valve inlet with a mesh section not exceeding 0.5 mm.
- Ensure a perfect connection between the valve earth conductor and the earth of the installation.
- Make sure that the max. fuel input pressure never exceeds the value appearing on the label.

#### **CHECKING AT START**

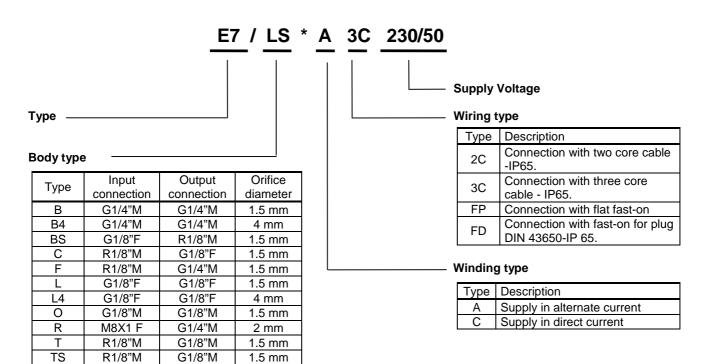
Check the valve before the first start, after any overhaul or a long period of non-operation of the system. In particular, check the valve seal where the supply piping is connected to the valve; check the valve opening and closing according to the electrical signal received by the solenoid.

#### **DIRECTIONS FOR THE REPLACEMENT OF THE SOLENOID**

To replace the solenoid, proceed as follows:

- switch off the main switch providing supply voltage to the system;
- · remove the stop ring;
- remove the solenoid from the valve sheath;
- insert the new solenoid and proceed in the opposite way to assemble the valve.

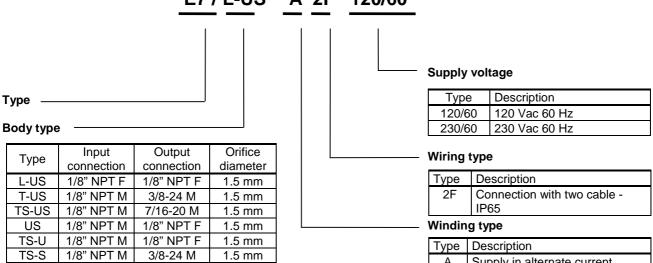
#### **TYPE REFERENCE**



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#### **UL APPROVED VERSIONS**

# E7/L-US\* A 2F 120/60



BRAHMA S.p.A.

T-U

1/8" NPT M

7/16-20 M

1.5 mm

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http://www.brahma.it E-mail: brahma@brahma.it 08/07/30 Subject to amendments without notice

Supply in alternate current

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