

**RELAYS SELECTOR OF LOW PRESSURE AND
 CAPACITY RESCUER MODEL 61 F e 61FE**

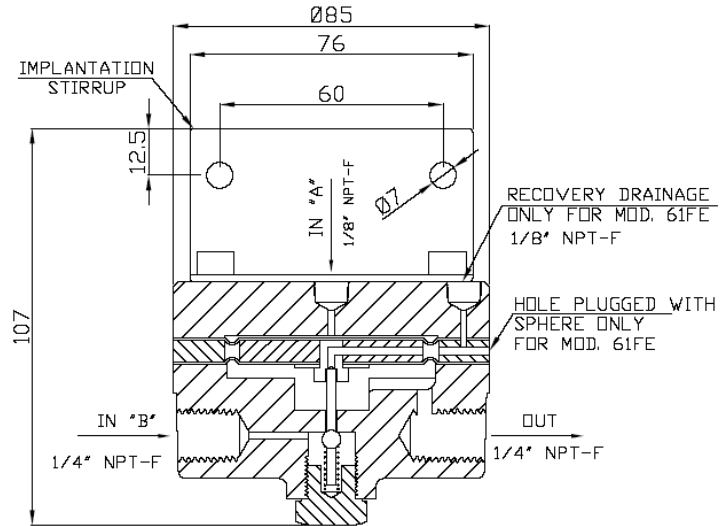
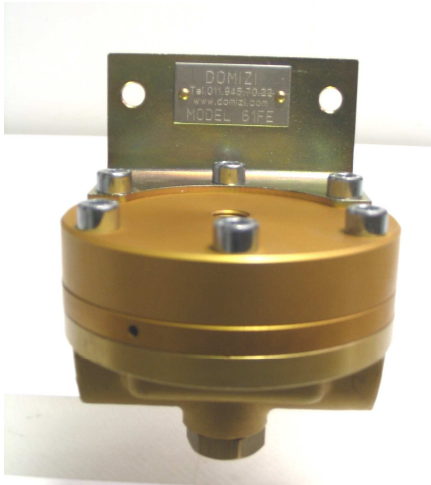


Fig.1

OPERATION CHARACTERISTICS	
Normal Field Income and expenditure	da 3-15 psi (0,2 a 1,05 Kp/cm ²)
Maximum pressure of entrance	50 psi (3,5 Kp/cm ²)
Limit of ambient temperature	da -40° a +82°C (-40° a 180° F)

GENERAL INFORMATION :

The Booster Relay Model 61F selects the lower of two signals and releases it directly to the next element of an instrument circuit.

OPERATION as a Low Pressure Selector Relay

When the input pressure "A" is lower than the input pressure "B" the selector reproduces the input pressure "A". When the input pressure "B" is lower than the input pressure "A" the pilot valve remains fully open and the input pressure "B" is transmitted directly through the relay.

OPERATION as a Booster Relay

When the input pressure is increased, the diaphragm assembly moves downward opening the supply air port of the pilot valve. The output pressure then increases until the output pressure, which creates a force under the diaphragm assembly, balances the input pressure which creates a force above the diaphragm assembly. When the diaphragm assembly is in balance, the pilot valve will shut off the supply air.

When the input pressure is decreased, the diaphragm assembly moves upward and opens the pilot valve exhaust port. The output pressure will bleed down until the output pressure and input pressure balance the diaphragm assembly. This will shut off the exhaust.

The Model 61FE Booster Relay is similar to the model 61F. The main difference is that the 61FE includes a 1/8" NPT connection for those applications where a tapped exhaust is required.

MATERIALS OF CONSTRUCTION:

Aluminium body, membrane neoprene ,stainless steel , brass.