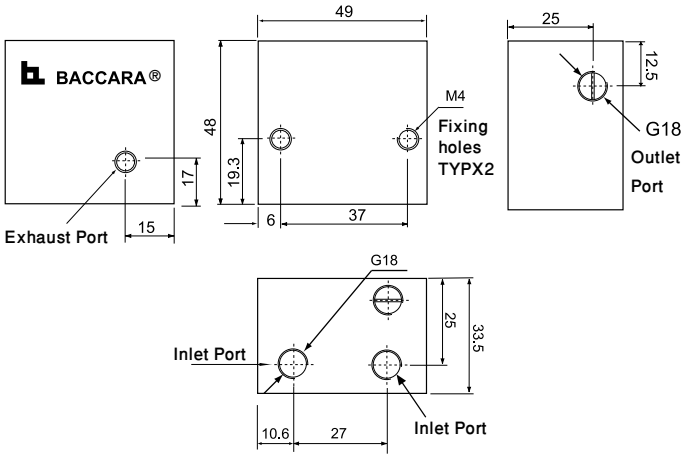

Baccara
Factory and head office
Kvutzat Geva, 1891500, Israel

Tel: +972 4 6535960
Fax: +972 4 6531445

Web Site: www.baccara-geva.com
eMail: info@baccara-geva.com

P.N. 61233220
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BACCARA® User Guide

Two-Handed Safety Box

General description

The two-handed safety box supplies a pneumatic signal to valves which operate a cyclinder.

This box is intended to be used in a machine which needs a safety operation, by requiring the machine operator to use the machine.

Note: When installing the two pilot valves, make sure that the machine operator will not be able to bypass the two-handed safety box.

(See further instruction on the next page).

Working conditions

Working pressure: 4 - 8 bar

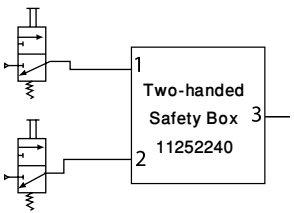
Ambient temperature: 4 -50ºC

Fluid: Dry, filteration 5

Installation

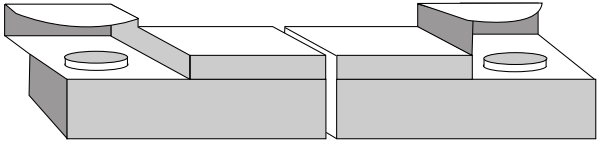
The purpose of the box is to provide maximum safeguard for machine operators using machines that require high safety levels when in operation.
This safeguard is effective on condition that the following instructions are followed:

* Ensure that the tube connection is as follows:

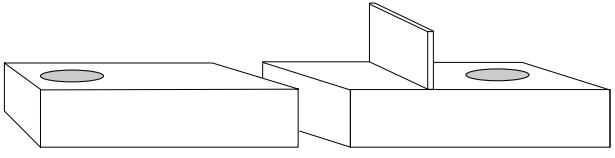


Port No.1 - will receive a signal from pilot valve No.1
Port No.2 - will receive a signal from pilot valve No.2
Port No.3 - will give the pneumatic output signal.

- The air supply for both pilot valves should be parallel (on the same line).
- The tubes from the pilot valves to the box should be the same length and diameter. the inside diameter of the tube should be at least 4mm (outside diameter 6mm) and the maximum length should be 2 metres.
- The air supply should be according to the working conditions. Make sure that there are no air leaks from the fittings.
- The only way to secure the box to the machine is to use the holes which have been made for this purpose.
- Make sure that the exhaust ports are not covered.
- Make sure that the pilot valves are installed in such a way that the machine operator cannot control them with only one hand.



Protection for fingers and hands



Flat push button

Insulation bracket

Operation

The pilot valves should be operated simultaneously* in order to get an output pneumatic signal. The output signal will be sustained during the time that both pilot valves are pressed. In order to carry out another operation, both pilot valves should be released. In any case, if even one pilot valve is released, the output will stop.

The box is designed to work only if pneumatic valves are connected to output port No. 3.

Testing

The box should be tested at least once a month and if it does not operate properly, it must be sent to the factory to be repaired.

Test Instruction:

1. Push separately on the pilot valves	make sure that there is no pneumatic output in port no.3
2.* Push simultaneously on both pilot valves	there is pneumatic output in port no.3
3. Release the right hand pilot valve	pneumatic output is stopped
4. Push down on right hand pilot valve again	there is no pneumatic output in port no.3
5.* Release both of the pilot valves and then push down on both simultaneously	there is pneumatic output in port no.3
6. Release the left hand pilot valve	there is no pneumatic output in port no.3
7. Push down on left hand pilot valve again	there is no pneumatic output in port no.3

* The box is designed in such a way that when simultaneously pushing down on both pilot valves, it allows for a 0.5 second delay between both pushing actions.