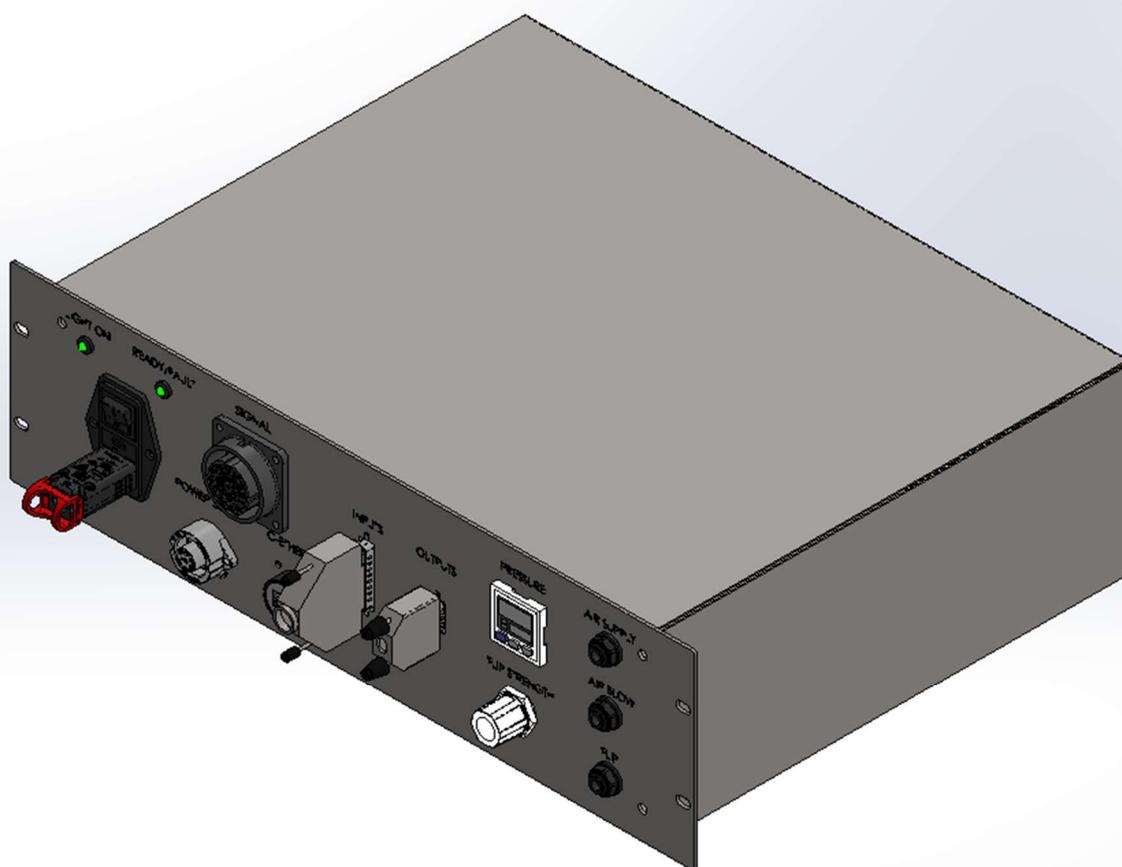


INSTRUCTIONS FOR USE AND WARNINGS



ENGLISH TRANSLATION OF THE ORIGINAL INSTRUCTIONS



FlexiBowl® remote control box

Revision 3 - Edition 03/2025



ARS S.r.l.

Via G. Vico, 7 - 52100 Arezzo (AR) Italy

Tel. +39 0575 398611 - Fax +39 0575 398620

info@arsautomation.com - www.arsautomation.com

Table of contents

1	PRELIMINARY INFORMATION	4
1.1	Purpose	4
1.2	Components	4
2	LAYOUT	5
2.1	Dimensions	5
2.2	Net weight	5
3	TRANSPORT AND INSTALLATION	6
3.1	Packaging	6
3.1.1	Table of units and weights - with packaging	6
3.1.2	Removing the packaging	6
3.1.3	Disposing of the packaging	6
3.2	Transport and handling	7
3.3	Installation	7
3.3.1	Box position	7
3.4	Connections	8
4	ELECTRICAL CONNECTIONS	9
4.1	Standard electrical and user interface connections	9
4.2	Additional electrical connections on the Flexibowl side	10
4.3	Electrical connections on box - FlexiBowl	11
4.3.1	Electrical connections	11
5	PNEUMATIC CONNECTIONS	12
5.1	Standard pneumatic connections	12
5.2	Pneumatic connections on Flexibowl side	13
5.3	Pneumatic connections on box - FlexiBowl	14

PAGE INTENTIONALLY LEFT BLANK

1 Preliminary information

1.1 Purpose

The external control box for FlexiBowl® can be used in dirty environments or where there is conductive dust that could cause malfunctions or failures of the electronic components contained inside the supply unit.

1.2 Components

The table below contains the main components found inside FlexiBowl® and, on the other hand, the components that have been inserted in the box:

Internal Components of FlexiBowl®	External Components of FlexiBowl®
Motor and encoder	24Vdc supply unit
Backlight (if applicable)	Driver
Mechanical/pneumatic unit	Interface board
Quick emptying sliding block (if applicable)	Compressed air filter
Emptying sliding block position sensors (if applicable)	Network power supply filter
-	Flip Solenoid
-	Blow Solenoid (if applicable)
-	Quick emptying sliding block solenoid (if applicable)

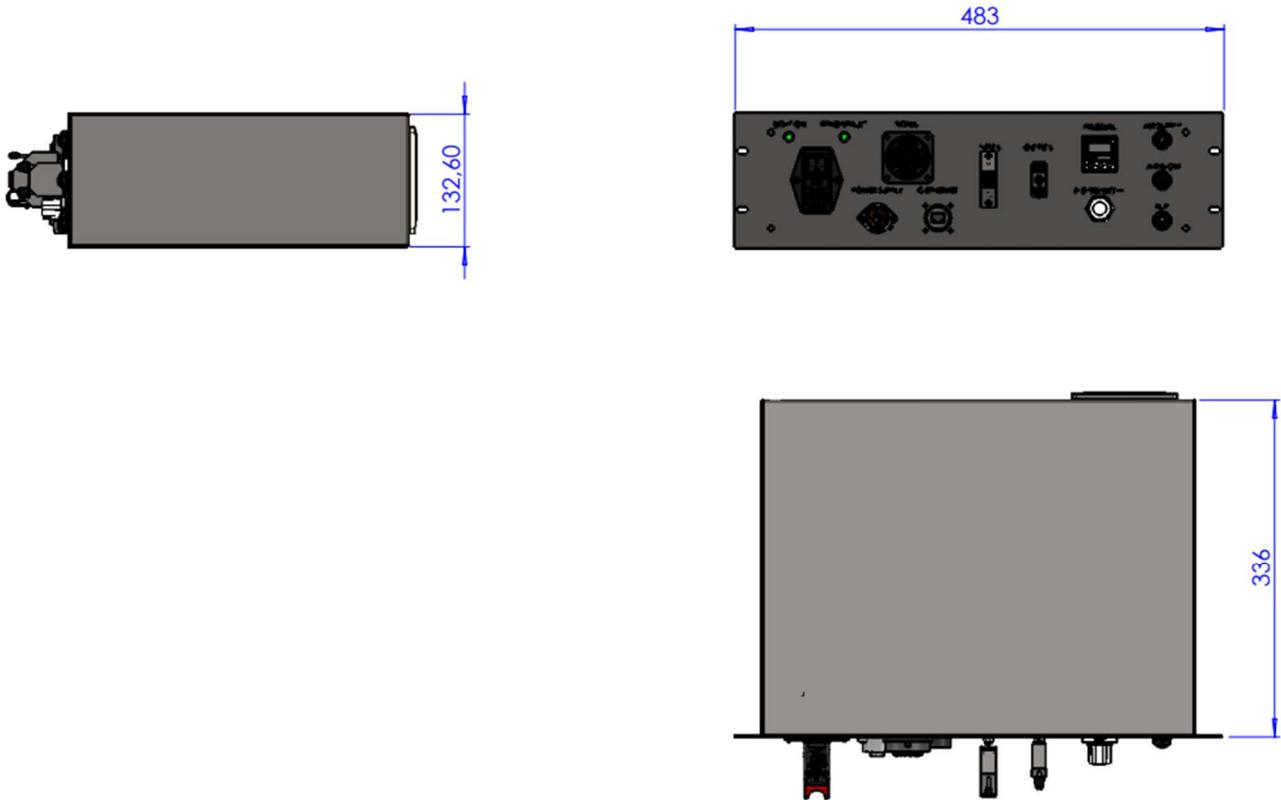


IMPORTANT!

For further information on the operation of the individual parts, refer to the attached FlexiBowl® User Manual.

2 Layout

2.1 Dimensions



2.2 Net weight

Weight	Box
Net weight	8 Kg

3 Transport and installation



IMPORTANT!

Lifting and handling operations must only be carried out by specialised and trained staff who are qualified for these activities.

3.1 Packaging

The machine is shipped by **ARS s.r.l.** from the production factory to the Customer's premises.

Based on the distance it needs to be transported, on the specific requests from the Customer, and on how long the load will remain in the packaging, the machine will be shipped in the following ways:

- normal protective packaging for short and medium distances;
- special protective packaging for long distances.

It must be shipped using closed or curtain-sided vehicles depending on the type of load.

When the machine is received, it is mandatory for the customer to check that there is no damage caused by the mode of transport or by the personnel in charge of the specific operations.

- **If any damage is discovered**, leave the packaging in question as it was found and immediately ask the competent shipping company to assess the damage; afterwards, send a damage report to inform the transport company's insurance company and the point of sale of the discovered damage.

3.1.1 Table of units and weights - with packaging

Follow the table below for the weights and dimensions including packaging.

Specification	External control box for FlexiBowl
Gross weight (with packaging)	10 kg
Cardboard box dimensions (mm)	500 x 350 x 140

3.1.2 Removing the packaging

Proceed as follows to **remove the packaging**:

Step	Action
1	Put the machine in its intended place.
2	Grip the box by the handles, to lift it and remove it from the package.

To handle the machine and/or its parts, see the "Transport and handling" section.

3.1.3 Disposing of the packaging

The packaging is an integral part of the supply and is not collected, hence it must be disposed of by the buyer.

Any disposal or destruction must be carried out in compliance with the regulations in force in the user's country, taking into account the nature of the materials:

- cardboard for the package;
- plastic sheet to protect the machine and adhesive tape to secure the plastic;
- moisture absorber sachets;
- etc

3.2 Transport and handling

ARS s.r.l. uses packaging and fasteners according to the mode of transport to guarantee integrity and conservation during transport.

When the machine is received, make sure no part was damaged during transport and/or handling.

If damage is found, it is mandatory to immediately inform the Manufacturer.



CAUTION!

ARS S.r.l. shall not be held liable for damage, to property or to people, due to accidents caused by failure to follow the instructions in this manual.

3.3 Installation



IMPORTANT!

The work surface must be sufficiently lit. If there are shady or uneven zones in the workplace, it is up to the user to provide suitable lighting devices. If these requirements are not met, the manufacturer disclaims all liability.

3.3.1 Box position

Step	Action
1	Place the box on a stable surface at a maximum distance of 5 metres from FlexiBowl®.
2	Fix the box through the holes. Note: the box has 4 holes for M8 screws on the pallet, for fixing.
3	Connect as necessary (see the “ Connections ” section).



CAUTION!

Make sure the machine support surface is flat and horizontal and can withstand its weight.



CAUTION!

Make sure that the supporting surface can release the heat generated by the operation of the device.



CAUTION!

Leave a space of approximately 100mm for the power supply connectors.



IMPORTANT!

For further information on installation specifications, refer to the attached FlexiBowl® User Manual.

3.4 Connections

To start the machine, it must be properly connected to the local networks:

- **electrical connection** (including connection to the earthing system),
- **compressed air connection**, in compliance with the regulations in force in the country of installation.

It might also be necessary to connect the machine to the **LAN**.

It is the user's responsibility to guarantee the requested connection characteristics.



CAUTION!

The required connections must be set up by qualified and authorised personnel.



IMPORTANT!

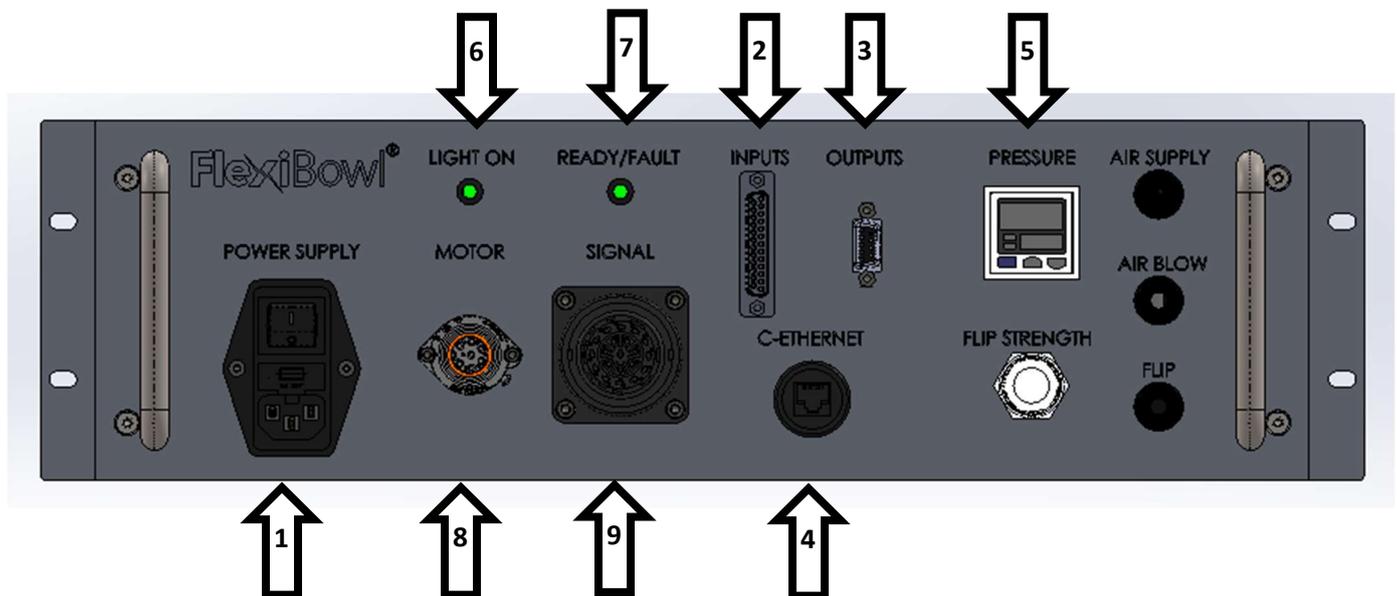
For further information on starting up the box, refer to the attached FlexiBowl® User Manual.

4 Electrical connections

4.1 Standard electrical and user interface connections

Standard electrical and user interface connections on the box are identical to those on the FlexiBowl® control panel. Below are:

1. 110/220 Vac power supply connection with relative switch;
2. Inputs connector;
3. Outputs connector;
4. Connecting the user interface (Ethernet);
5. Pressure indicator;
6. Backlight operating LED (if applicable);
7. "READY/FAULT" status LED.
8. Power connection
9. Signal connection



CAUTION!

The required connections must be set up by qualified and authorised personnel.



CAUTION!

Before doing any electrical connections, it is important to ensure that the machine is turned off.



IMPORTANT!

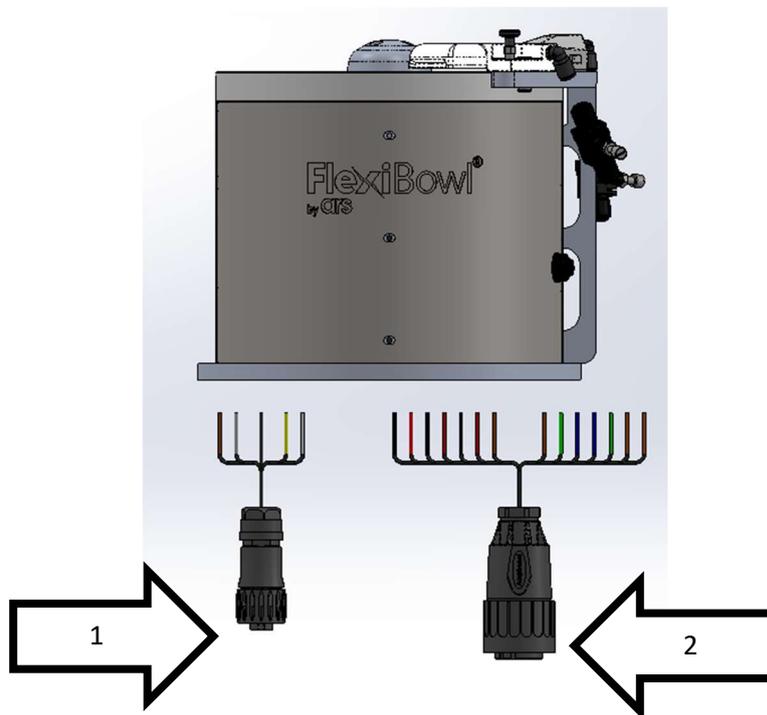
Further information on the control panel connections is in the attached FlexiBowl® User Manual.

4.2 Additional electrical connections on the Flexibowl side

The additional electrical connections have the purpose of connecting the components inside the box with the components inside the FlexiBowl®. They are normally not visible, as all connections are set up inside the supply unit. Below are:

1. Motor power connector: supplies power to the motor;
2. Signal connection connector: connects and supplies the data (detected by the latter) to the driver; supplies +24 Vdc power to the flip and blow/empty solenoid valves (if applicable), supplies +24 Vdc power to the backlight (if applicable), receives information from the REED sensors regarding the status of the quick emptying slide (if applicable).

All cables are included in the supply.



4.3 Electrical connections on box – FlexiBowl

4.3.1 Electrical connections



CAUTION!

Before doing any electrical connections, it is important to ensure that the machine is turned off.

These have the purpose of connecting the components inside the box with the components inside the FlexiBowl®. Below are:

1. Using an extension cable, connect connector 1 on the FlexiBowl® to the MOTOR connector (8) on the box.
2. Using an extension cable, connect connector 2 on the FlexiBowl® to the SIGNAL connector (9) on the

All cables are included in the supply.

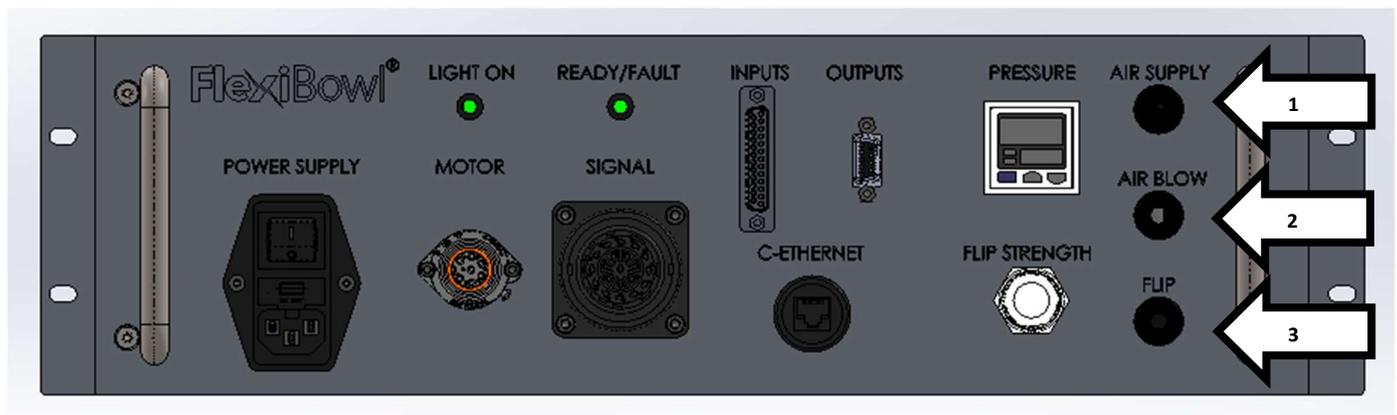


5 Pneumatic connections

5.1 Standard pneumatic connections

Standard pneumatic connections on the box are identical to those on the FlexiBowl® control panel. Below are:

1. "AIR SUPPLY" inlet;
2. "AIR BLOW" outlet supplies compressed air to the FlexiBowl® ("BLOW") to power the blowing and/or emptying solenoid valves (if installed);
3. "FLIP" supplies compressed air to the FlexiBowl® ("FLIP") to power the flip solenoid valve.



The air pipes are included in the supply.



CAUTION!

Never exceed a pressure of 6 bar in the machine's compressed air system.



CAUTION!

Make sure there is a shut-off valve between the room air supply and the FlexiBowl®.



IMPORTANT!

Further information on the control panel connections is in the attached FlexiBowl® User Manual.

5.2 Pneumatic connections on Flexibowl side

The additional pneumatic connections have the purpose of connecting the components inside the box with the components inside the FlexiBowl®. Below are:

1. "BLOW" outlet: receives compressed air coming out of the box ("AIR OUT") to power the blow solenoid valve and emptying solenoid valves (if installed);
2. "FLIP" outlet: receives compressed air coming out of the box ("FLIP") to power the flip solenoid valve;

The air pipes are included in the supply.

5.3 Pneumatic connections on box - FlexiBowl

These have the purpose of connecting the components inside the box with the components inside the FlexiBowl®. Below are:

1. "FLIP UP" inlet: Connect the end of the "BLOW" tube to the "AIR BLOW" outlet of the box;
2. "FLIP DOWN" inlet: Connect the end of the "FLIP" tube to the "FLIP" outlet of the box;



The air pipes are included in the supply.



IMPORTANT!

Refer to the FlexiBowl® User Manual for programming and use, maintenance, placing out of service and disposal.



ARS S.r.l.

Via G. Vico, 7 - 52100 Arezzo (AR) Italy

Tel. +39 0575 398611 - Fax +39 0575 398620

info@arsautomation.com - www.arsautomation.com