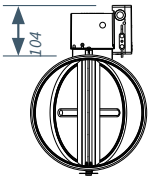
EQUIPMENT ASSEMBLY DCV-SPLb

DCV-SPb – Circular

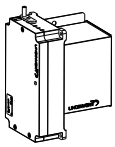
Delivered pre-assembled with the SPLb pressure regulator and damper motor on a circular damper SPM (Ø125 to Ø500).

- The damper motor is pre-wired.
- Comes with an 8x5 (1.5 m) hose and 2 push nipples for pressure measurement.

Note: Circular Ø630 can only be delivered as a kit with a rectangular damper 700x700 with a circular 630 connection and a circular measuring flange.

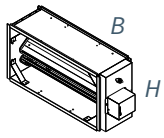


DCV-SPb Circular



Regulator SPLb on Damper Motor

+

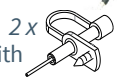


Damper JSPM with Installed Damper MSotor

DCV-SPb Rectangular

Delivered as a kit: Damper motor, regulator, measuring flange, and damper are assembled and connected during installation. See illustrations on the next page for steps 2 to 4.

- Transparent hose for connecting the push nipple in the duct.
- 1 push nipple for pressure measurement for reference measurement.
- JSPM custom ordered.
- Guide connections must be equipped with sealing strips.
- JSPM should be installed with horizontal damper blades.
- The motor bracket on JSPM is suitable for damper motors DA4/DA8/DBA.

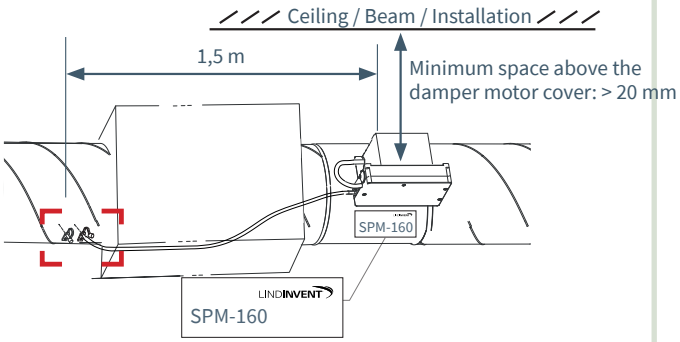


1. ORIENTATION OF DAMPER & PLACEMENT OF PUSH NIPPLE

Ensure that the motor bracket is placed for the easiest possible access to the damper motor and thus the regulator.

- Distance to wall/ceiling/installation from the top of the damper motor cover with regulator: > 20 mm.
  The total assembly height for motor bracket + damper motor cover with installed regulator is 104 mm.
- Distance from the regulator to the placement of the push nipple: 1.5 m.

NOTE: The push nipple is always placed on the side facing the room/served area.



2. CONNECT 24 VAC, NETWORK, AND OTHER UNITS

See installation step 4 Wiring on the next page.

LINDINSIDE

Procedure for connecting to SPLb for Node-ID assignment.

1. Download the App:

- LINDINSIDE is available for download on your smartphone from Google Play/App Store.
- Create a user account and log in to the LINDINSIDE app
- Swipe down to scan available devices. LINDINSIDE will list all Lindinvent devices equipped with Bluetooth® within signal range.

2. Select the Device from the List

By calling the desired device via the bell symbol, you will receive a beep sound and blue blinking light from the controller as confirmation of connection to your smartphone.

3. Set the Assigned Node-ID*

Enter a unique Node-ID between 1–239 following Lindinvent's recommended Node-ID assignment.
Note that Node-ID cannot be 0.

4. Perform a new scan/refresh to check

Perform a new scan to verify the updated Node-ID.

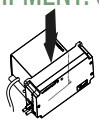
*When assigning Node-IDs to a large number of devices, the "Set nodeIDs" function can be used.

Note: Once the Node-ID is assigned and the device is connected to your smartphone, commissioning can be completed via the Quick setup screen in LINDINSIDE. If the regulator can be commissioned for different functions, the app will first require a function selection. The choice of function determines which settings may need to be adjusted under the Quick setup screen.

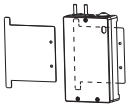
Smartphone with the LINDINSIDE App.

Scan the QR Code for More Information About LINDINSIDE.

EQUIPMENT: SELF-ASSEMBLY OF SPLb



Regulator on Damper Motor



Mounting Plate MPLb for Regulator

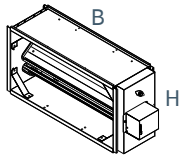
Damper Motor DA4/DA8/DBA

- Transparent hose: 1 for connecting the push nipple (1.5 m)
- 2 push nipples: **Place 1.5 meters from the regulator towards the served area.**
- SPLb is usually mounted on the damper motor cover.
  Mounting plate MPLb can be ordered separately; used in split installations.

Note: In split installations, SPLb is mounted elsewhere than on the damper motor.

- Damper Motor DA4/DA8/DBA.

Circular Damper SPM



Rectangular Damper JSPM with Installed Damper Motor

Assembly in Circular Duct: via SPM

- Circular damper SPM (Ø125-500).
- Assembly with SPLb and damper motor corresponds to DCV-SPb Circular.

Assembly in Rectangular Duct: Via JSPM

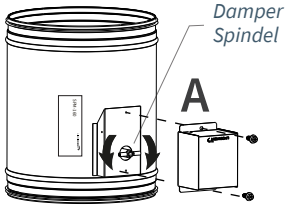
- Rectangular damper JSPM custom ordered.
- Equip guide connections with sealing strips.
- JSPM should be installed with horizontal damper blades.
- Assembly with SPLb and damper motor corresponds to DCV-SPb Rectangular.

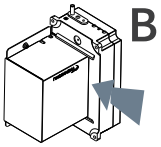
1. PLACEMENT AND ORIENTATION OF DAMPER

- Circular damper: Orient the motor bracket for the easiest possible access to the regulator and, if possible, with a clear view of the RGB LED.
- Ensure there is a minimum total construction height of 145 mm from the base of the motor bracket. This space is necessary to allow the removal of the damper motor with the regulator.
  See instructions under installation step 1 on the next page.

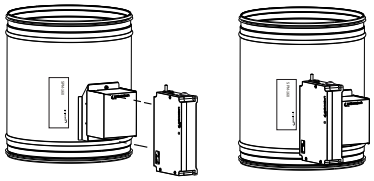
2. ASSEMBLY ON DAMPER

- Damper motor (A): Mount on the damper's motor bracket so that the damper spindle fits into the damper motor. Before assembly: Ensure that the damper spindle on the damper can rotate freely.
- Circular and Rectangular: Mount the regulator (B) on the damper motor by sliding the mounting slots on the back of the regulator over the protruding edges on both sides of the motor cover. Choose an appropriate side of the motor cover.

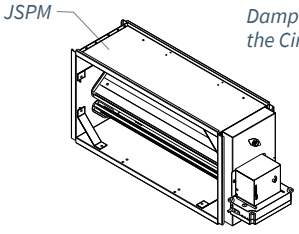




Two Holders on the Underside of the Regulator are Placed Over the Damper Motor Cover.



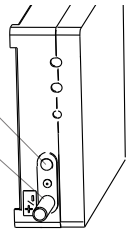
Damper Motor with Regulator Mounted on the Circular Damper SPM

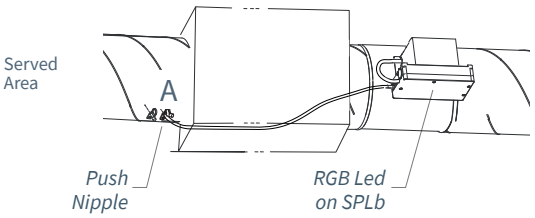


Damper Motor with Regulator Mounted on the Rectangular Damper JSPM

3. INSTALL PUSH NIPPLE AND CONNECT HOSE

Cut the hose (5x8) to length to connect the installed push nipple (A) to the +/- port on the SPLb pressure sensor.



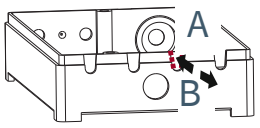


Note: *Pressure measurement nipples (A) are placed in the duct approximately 1.5 meters from the regulator and always on the side facing the served area.*

4. WIRING

Connections are made following the external connection diagram for SPLb: See the inside of the regulator cover.

- The regulator is connected to 24 VAC and the network (CAN) via Lindinvent's standard cable with 2 conductors for power supply and 2 conductors for communication.
  Lindinvent's standard cable is also used for connecting presence sensors and various other equipment.
- Make openings/outlets for each cable: Use wire cutters to open outlets for cables as shown in the illustration below.
- During wiring: Use bi-conductor tubing for the screen.
- After wiring: Reattach the cover, which should then clamp the cables securely for a safe connection.



A: Cut x 2
B: Bend back and forth/break off (Cut/clean openings with wire cutters)

Illustration 1I. Instructions for openings in the enclosure.