

## EJ-ATM-LINE-SMALLX2

- Restores the atmospheric pressure inside the gripping device to enable the quick release of the product
- Suitable for sealed applications to reduce cycle time
- Available with Gimatic's integrated vacuum switch, pre-set (-30, -50 and -70 kPa), in the PNP and NPN versions
- Vacuum ports, in-line or L-shaped
- A single 3/2 valve controls the vacuum pump and the ATM release device
- Anodised aluminium manifold
- Multiple G1/8" vacuum ports
- Available with two two-stage EJ-SMALL cartridges (EJ-LP, EJ-HV)

### Typical applications

- Robotic cells for handling parts in transformation processes, for instance when serving bending machines, sheet metal forming presses and bending processes
- Glass handling machines
- Packaging machines, for the food and pharmaceutical sector

Application example



### Technical features

|                   |                           |
|-------------------|---------------------------|
| Max feed pressure | 0.7 MPa                   |
| Weight            | 66.5 + 73.5 g             |
| Material          | PA, SS, Al, Nitrile (NBR) |
| Noise level       | < 70 dB                   |

### Suction flow rate

| Model                | Feed pressure<br>[MPa] | Air consumption<br>[NI/s] | Suction flow rate [NI/s] at different vacuum levels [kPa] |      |      |      |      |      |       |        |      |     | Max vacuum<br>[kPa] |
|----------------------|------------------------|---------------------------|---|------|------|------|------|------|-------|--------|------|-----|---------------------|
|                      |                        |                           | 0   | -10  | -20  | -30  | -40  | -50  | -60   | -70    | -80  | -90 |                     |
| EJ-ATM-LINE-SX2-LP-2 | 0.22                   | 0.34                      | 0.5   | 0.36 | 0.16 | 0.1  | 0.08 | 0.05 | 0.036 | 0.0106 | –    | –   | -82                 |
| EJ-ATM-LINE-SX2-HV-2 | 0.5                    | 0.26                      | 0.44  | 0.32 | 0.20 | 0.12 | 0.10 | 0.08 | 0.04  | 0.02   | 0.02 | –   | -92                 |

For technical specifications regarding the suction flow rate and the air consumption at different pressures, refer to the technical data sheets of the two-stage EJ-SMALL-LP cartridges and multiply by two the values reported at the different vacuum levels

### Evacuation time

| Model                | Feed pressure<br>[MPa] | Air consumption<br>[NI/s] | Evacuation time [s/l] to reach different vacuum levels [kPa] |      |      |     |      |      |       |      |     | Max vacuum<br>[kPa] |
|----------------------|------------------------|---------------------------|--|------|------|-----|------|------|-------|------|-----|---------------------|
|                      |                        |                           | -10  | -20  | -30  | -40 | -50  | -60  | -70   | -80  | -90 |                     |
| EJ-ATM-LINE-SX2-LP-2 | 0.22                   | 0.34                      | 0.23   | 0.61 | 1.38 | 2.5 | 4.03 | 6.35 | 10.65 | 29.5 | –   | -82                 |
| EJ-ATM-LINE-SX2-HV-2 | 0.5                    | 0.26                      | 0.26   | 0.65 | 1.27 | 2.2 | 3.3  | 4.95 | 8.3   | 18.3 | –   | -92                 |

For technical specifications regarding the evacuation time and the consumption at different pressures refer to the technical data sheets of the EJ-SMALL-LP cartridges and divide by two the reported values

| Identification codes          |   |            |
|-------------------------------|---|------------|
| Alphanumeric code             | Description   | Order code |
| EJ-ATM-LINE-SX2-LP-2          | EJ-ATM-LINE-SMALLX2-LP-2 vacuum pump with holder                                    | 3030125    |
| EJ-ATM-LINE-SX2-HV-2          | <b>NEW</b> EJ-ATM-LINE-SMALLX2-HV-2 vacuum pump with holder                         | 3030205    |
| EJ-ATM-LINE-SX2-LP-2-VSW-30-P | EJ-ATM-LINE-SMALLX2-LP-2 vacuum pump with holder, pre-set vacuum switch PNP -30 kPa | 3030126    |
| EJ-ATM-LINE-SX2-LP-2-VSW-50-P | EJ-ATM-LINE-SMALLX2-LP-2 vacuum pump with holder, pre-set vacuum switch PNP -50 kPa | 3030127    |
| EJ-ATM-LINE-SX2-LP-2-VSW-70-P | EJ-ATM-LINE-SMALLX2-LP-2 vacuum pump with holder, pre-set vacuum switch PNP -70 kPa | 3030128    |
| EJ-ATM-LINE-SX2-LP-2-VSW-30-N | EJ-ATM-LINE-SMALLX2-LP-2 vacuum pump with holder, pre-set vacuum switch NPN -30 kPa | 3030129    |
| EJ-ATM-LINE-SX2-LP-2-VSW-50-N | EJ-ATM-LINE-SMALLX2-LP-2 vacuum pump with holder, pre-set vacuum switch NPN -50 kPa | 3030130    |
| EJ-ATM-LINE-SX2-LP-2-VSW-70-N | EJ-ATM-LINE-SMALLX2-LP-2 vacuum pump with holder, pre-set vacuum switch NPN -70 kPa | 3030131    |

For more information and technical data on the pre-set vacuum switches described, please see the accessories section on page 494

