

## Pneumatic Vacuum Generators RECB MATCH

Suction rate 52.5 l/min · Lift capacity up to 25 kg

### Suitability for Industry Specific Applications

#### Applications

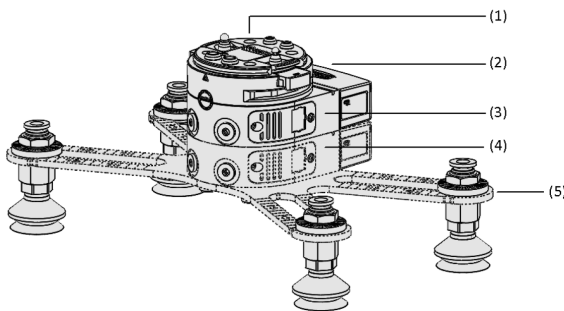
- Handling of porous and flexible workpieces such as filled cardboard boxes in palletizing processes
- Use in logistics processes (pick & pack) when handling packaging, bags or cardboard packaging
- Use in fully automated processes with low cycle and evacuation times
- Use in interlinked processes due to intelligent two-zone technology
- Direct vacuum generation end-of-arm for small and large-area grippers



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#### Design

- Connection suitable for all quick-change modules RMQC of the MATCH platform (1)
- Intuitive LED display and NFC interface (2) for convenient data transfer via smartphone
- Integrated eco nozzle technology (3) with easily accessible nozzle and valve technology
- Two separate vacuum circuits possible by combining two ejector modules (4)
- Predefined assemblies with different grippers (5) or universal connection plate



System Design Pneumatic Vacuum Generators RECB MATCH



Pneumatic vacuum generator RECB MATCH when handling carton packages

#### Product Highlights

- Pneumatic vacuum generator with quick-change unit for high application diversity and flexible gripper design
- High suction rate directly at the gripper increases process reliability and reduces cycle times
- Energy efficient vacuum generation through eco nozzle technology and automatic air saving reduces operating costs by up to 60 %
- Simple and time saving design of two separate vacuum circuits possible
- Software supported commissioning for fast and uncomplicated use

### Designation Code Pneumatic Vacuum Generators RECB MATCH

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Suction rate 52.5 l/min · Lift capacity up to 25 kg

|             |   |               |   |           |   |              |   |           |   |              |
|-------------|---|---------------|---|-----------|---|--------------|---|-----------|---|--------------|
| <b>RECB</b> | – | <b>24V-DC</b> | – | <b>NO</b> | – | <b>PXR-I</b> | – | <b>1C</b> | – | <b>MATCH</b> |
| <b>1</b>    |   | <b>2</b>      |   | <b>3</b>  |   | <b>4</b>     |   | <b>5</b>  |   | <b>6</b>     |

## 1 – Abbreviated designation

| Code | Version |
|------|---------|
| RECB | RECB    |

## 2 – Voltage

| Code   | Voltage        |
|--------|----------------|
| 24V-DC | Direct voltage |

## 3 – Idle position suction valve

| Code | Type            |
|------|-----------------|
| NC   | Normally closed |
| NO   | Normally open   |

## 4 – Gripper

| Code  | Type                 |
|-------|----------------------|
| PXR-I | PXR (I shape)        |
| PXR-X | PXR (X shape)        |
| PXT-1 | PXT (1 beam)         |
| PXT-2 | PXT (2 beams)        |
| UNI   | Universal connection |

## 5 – Vacuum channels

| Code | Type              |
|------|-------------------|
| 1C   | 1 vacuum channel  |
| 2C   | 2 vacuum channels |

## 6 – Design

| Code  | Type  |
|-------|-------|
| MATCH | MATCH |

The pneumatic vacuum generator RECB MATCH is available in the following versions:

- With mounted PXR gripper
- With connection flange for modular gripper system PXT
- With mounted universal connection plate

## Ordering Data Pneumatic Vacuum Generators RECB MATCH

| Type                          | Part no.                                                                                             |
|-------------------------------|------------------------------------------------------------------------------------------------------|
| RECB 24V-DC NC PXR-I 1C MATCH | 10.02.03.00377  |
| RECB 24V-DC NO PXR-I 1C MATCH | 10.02.03.00375  |
| RECB 24V-DC NC PXR-I 2C MATCH | 10.02.03.00408  |
| RECB 24V-DC NO PXR-I 2C MATCH | 10.02.03.00379  |
| RECB 24V-DC NC PXR-X 1C MATCH | 10.02.03.00378  |
| RECB 24V-DC NO PXR-X 1C MATCH | 10.02.03.00376  |
| RECB 24V-DC NC PXR-X 2C MATCH | 10.02.03.00409  |
| RECB 24V-DC NO PXR-X 2C MATCH | 10.02.03.00407  |
| Type                          | Part no.                                                                                             |
| RECB 24V-DC NC PXT-1 1C MATCH | 10.02.03.00394  |
| RECB 24V-DC NO PXT-1 1C MATCH | 10.02.03.00397  |
| RECB 24V-DC NC PXT-2 1C MATCH | 10.02.03.00395  |
| RECB 24V-DC NO PXT-2 1C MATCH | 10.02.03.00398  |
| RECB 24V-DC NC PXT-2 2C MATCH | 10.02.03.00400  |
| RECB 24V-DC NO PXT-2 2C MATCH | 10.02.03.00405  |
| Type                          | Part no.                                                                                             |
| RECB 24V-DC NC UNI 1C MATCH   | 10.02.03.00401  |
| RECB 24V-DC NO UNI 1C MATCH   | 10.02.03.00402  |
| RECB 24V-DC NC UNI 2C MATCH   | 10.02.03.00403  |
| RECB 24V-DC NO UNI 2C MATCH   | 10.02.03.00404  |

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### Ordering Data Spare Parts Pneumatic Vacuum Generators RECB MATCH

| Spare Parts        |                       | Part no.       |
|--------------------|-----------------------|----------------|
| Set of spare parts | ERS RECB SD           | 10.02.03.00422 |
| Set of spare parts | ERS SEP-13 6xRUE-KLAP | 10.02.01.01449 |
| Ejector module     | SEP HV 2 14 13 S      | 10.02.01.01493 |

| Type              | Spare Parts                 |                        | Part no.       |
|-------------------|-----------------------------|------------------------|----------------|
| PXR (I-shape)     | Bellows suction cup (round) | SPB1 30 ED-65 G1/4-AG  | 10.01.06.04530 |
| PXR (X-shape)     | Bellows suction cup (round) | SPB1 30 ED-65 G1/4-AG  | 10.01.06.04530 |
| PXT (1-crossbeam) | O-ring                      | O-RING 10.3x2.4 NBR-70 | 10.07.08.00090 |

### Ordering Data Accessories Pneumatic Vacuum Generators RECB MATCH

| Type       | PXR (I-shape)  | PXR (X-shape)  | PXT (2-crossbeam) | PXT (1-crossbeam) | Universal connector |
|------------|----------------|----------------|-------------------|-------------------|---------------------|
| RECB MATCH | 10.02.03.00408 | 10.02.03.00409 | 10.02.03.00398    | 10.02.03.00397    | 10.02.03.00403      |

| Accessories                   | Part no.                                        |
|-------------------------------|-------------------------------------------------|
| Building group Solenoid valve | VENT-BGR EMVP-5 3/2 NC 24V-DC<br>10.08.09.00032 |

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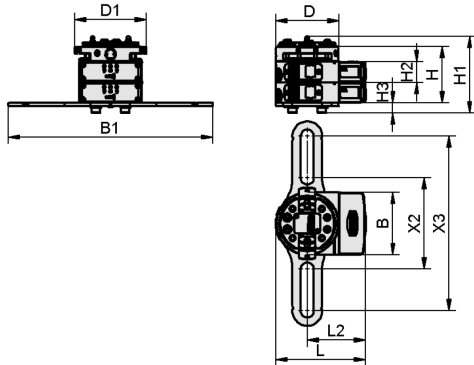
## Technical Data Pneumatic Vacuum Generators RECB MATCH

| Type                          | with                 | Voltage [V] | Suction rate max. [l/min] | Max. vacuum [mbar] | Control valve   | Rated power [W] | Voltage  | Rated current [A] | Operating pressure | Operating temperature |
|-------------------------------|----------------------|-------------|---------------------------|--------------------|-----------------|-----------------|----------|-------------------|--------------------|-----------------------|
| RECB 24V-DC NC PXR-I 1C MATCH | PXR (I-shape)        | 24V - DC    | 52.5                      | 850                | Normally closed | 1.00            | 24V - DC | 0.0               | 3.00 ... 7.00 bar  | 0 ... 50 °C           |
| RECB 24V-DC NO PXR-I 1C MATCH | PXR (I-shape)        | 24V - DC    | 52.5                      | 850                | Normally open   | 1.51            | 24V - DC | 0.1               | 3.00 ... 7.00 bar  | 0 ... 50 °C           |
| RECB 24V-DC NC PXR-I 2C MATCH | PXR (I-shape)        | 24V - DC    | 52.5                      | 850                | Normally closed | 2.00            | 24V - DC | 0.1               | 3.00 ... 7.00 bar  | 0 ... 50 °C           |
| RECB 24V-DC NO PXR-I 2C MATCH | PXR (I-shape)        | 24V - DC    | 52.5                      | 850                | Normally open   | 3.00            | 24V - DC | 0.1               | 3.00 ... 7.00 bar  | 0 ... 50 °C           |
| RECB 24V-DC NC PXR-X 1C MATCH | PXR (X-shape)        | 24V - DC    | 52.5                      | 850                | Normally closed | 1.00            | 24V - DC | 0.0               | 3.00 ... 7.00 bar  | 0 ... 50 °C           |
| RECB 24V-DC NO PXR-X 1C MATCH | PXR (X-shape)        | 24V - DC    | 52.5                      | 850                | Normally open   | 1.51            | 24V - DC | 0.1               | 3.00 ... 7.00 bar  | 0 ... 50 °C           |
| RECB 24V-DC NC PXR-X 2C MATCH | PXR (X-shape)        | 24V - DC    | 52.5                      | 850                | Normally closed | 2.00            | 24V - DC | 0.1               | 3.00 ... 7.00 bar  | 0 ... 50 °C           |
| RECB 24V-DC NO PXR-X 2C MATCH | PXR (X-shape)        | 24V - DC    | 52.5                      | 850                | Normally open   | 3.00            | 24V - DC | 0.1               | 3.00 ... 7.00 bar  | 0 ... 50 °C           |
| RECB 24V-DC NC PXT-1 1C MATCH | PXT (1 beam)         | 24V - DC    | 52.5                      | 850                | Normally closed | 1.00            | 24V - DC | 0.0               | 3.00 ... 7.00 bar  | 0 ... 50 °C           |
| RECB 24V-DC NO PXT-1 1C MATCH | PXT (1 beam)         | 24V - DC    | 52.5                      | 850                | Normally open   | 1.51            | 24V - DC | 0.1               | 3.00 ... 7.00 bar  | 0 ... 50 °C           |
| RECB 24V-DC NC PXT-2 1C MATCH | PXT (2 beam)         | 24V - DC    | 52.5                      | 850                | Normally closed | 1.00            | 24V - DC | 0.0               | 3.00 ... 7.00 bar  | 0 ... 50 °C           |
| RECB 24V-DC NO PXT-2 1C MATCH | PXT (2 beam)         | 24V - DC    | 52.5                      | 850                | Normally open   | 1.51            | 24V - DC | 0.1               | 3.00 ... 7.00 bar  | 0 ... 50 °C           |
| RECB 24V-DC NC PXT-2 2C MATCH | PXT (2 beam)         | 24V - DC    | 52.5                      | 850                | Normally closed | 2.00            | 24V - DC | 0.1               | 3.00 ... 7.00 bar  | 0 ... 50 °C           |
| RECB 24V-DC NO PXT-2 2C MATCH | PXT (2 beam)         | 24V - DC    | 52.5                      | 850                | Normally open   | 3.00            | 24V - DC | 0.1               | 3.00 ... 7.00 bar  | 0 ... 50 °C           |
| RECB 24V-DC NC UNI 1C MATCH   | Universal connection | 24V - DC    | 52.5                      | 850                | Normally closed | 1.00            | 24V - DC | 0.0               | 3.00 ... 7.00 bar  | 0 ... 50 °C           |
| RECB 24V-DC NO UNI 1C MATCH   | Universal connection | 24V - DC    | 52.5                      | 850                | Normally open   | 1.51            | 24V - DC | 0.1               | 3.00 ... 7.00 bar  | 0 ... 50 °C           |
| RECB 24V-DC NC UNI 2C MATCH   | Universal connection | 24V - DC    | 52.5                      | 850                | Normally closed | 2.00            | 24V - DC | 0.1               | 3.00 ... 7.00 bar  | 0 ... 50 °C           |
| RECB 24V-DC NO UNI 2C MATCH   | Universal connection | 24V - DC    | 52.5                      | 850                | Normally open   | 3.00            | 24V - DC | 0.1               | 3.00 ... 7.00 bar  | 0 ... 50 °C           |

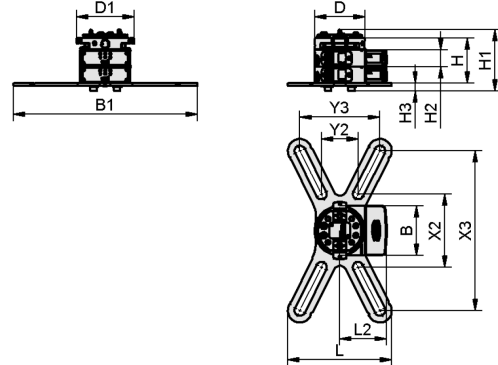
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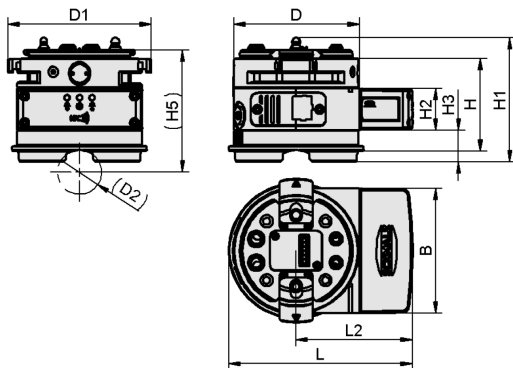
## Design Data Pneumatic Vacuum Generators RECB MATCH



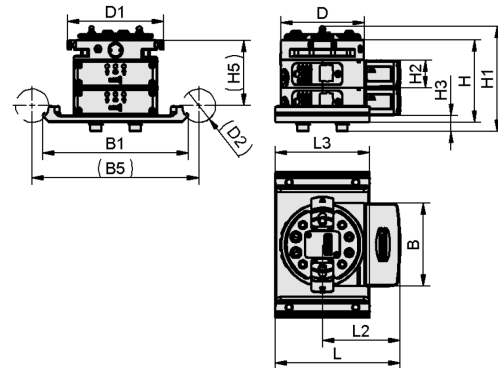
RECB PXR-I MATCH



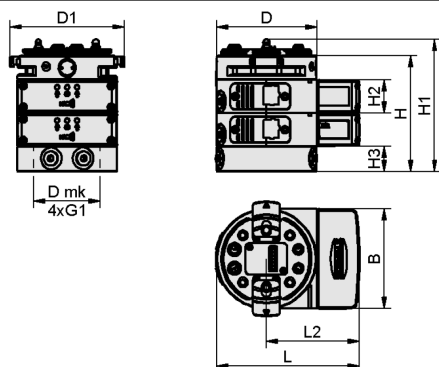
RECB PXR-X MATCH



RECB PXT-1 MATCH



RECB PXT-2 MATCH



RECB UNI MATCH

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## Design Data Pneumatic Vacuum Generators RECB MATCH

| Type                                         | B [mm] | B1 [mm] | B5 [mm] | D [mm] | D1 [mm] | D2 [mm] | Dmk [mm] | G1 | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L2 [mm] | L3 [mm] | X2 [mm] | X3 [mm] | Y3 [mm] | Y2 [mm] |
|----------------------------------------------|--------|---------|---------|--------|---------|---------|----------|----|--------|---------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|
| RECB<br>24V-DC<br>NC PXR-<br>I 1C<br>MATCH   | 75     | 246     | -       | 75.5   | 86.2    | -       | -        | -  | 43.0   | 67.5    | 25      | 12      | -       | 107.5  | 70      | -       | 110     | 210.0   | -       | -       |
| RECB<br>24V-DC<br>NO PXR-<br>I 1C<br>MATCH   | 75     | 246     | -       | 75.5   | 86.2    | -       | -        | -  | 43.0   | 67.5    | 25      | 12      | -       | 107.5  | 70      | -       | 110     | 210.0   | -       | -       |
| RECB<br>24V-DC<br>NC PXR-<br>I 2C<br>MATCH   | 75     | 246     | -       | 75.5   | 86.2    | -       | -        | -  | 68.0   | 92.5    | 25      | 12      | -       | 107.5  | 70      | -       | 110     | 210.0   | -       | -       |
| RECB<br>24V-DC<br>NO PXR-<br>I 2C<br>MATCH   | 75     | 246     | -       | 75.5   | 86.2    | -       | -        | -  | 68.0   | 92.5    | 25      | 12      | -       | 107.5  | 70      | -       | 110     | 210.0   | -       | -       |
| RECB<br>24V-DC<br>NC PXR-<br>X 1C<br>MATCH   | 75     | 276     | -       | 75.5   | 86.2    | -       | -        | -  | 43.0   | 67.5    | 25      | 12      | -       | 156.0  | 70      | -       | 110     | 240.0   | 120.0   | 55      |
| RECB<br>24V-DC<br>NO PXR-<br>X 1C<br>MATCH   | 75     | 276     | -       | 75.5   | 86.2    | -       | -        | -  | 43.0   | 67.5    | 25      | 12      | -       | 156.0  | 70      | -       | 110     | 240.0   | 120.0   | 55      |
| RECB<br>24V-DC<br>NC PXR-<br>X 2C<br>MATCH   | 75     | 276     | -       | 75.5   | 86.2    | -       | -        | -  | 68.0   | 92.5    | 25      | 12      | -       | 156.0  | 70      | -       | 110     | 240.0   | 120.0   | 55      |
| RECB<br>24V-DC<br>NO PXR-<br>X 2C<br>MATCH   | 75     | 276     | -       | 75.5   | 86.2    | -       | -        | -  | 68.0   | 92.5    | 25      | 12      | -       | 156.0  | 70      | -       | 110     | 240.0   | 120.0   | 55      |
| RECB<br>24V-DC<br>NC<br>PXT-1<br>1C<br>MATCH | 75     | -       | -       | 75.5   | 86.2    | 26.5    | -        | -  | 55.5   | 74.5    | 25      | 19      | 70      | 110.5  | 70      | -       | -       | -       | -       | -       |
| RECB<br>24V-DC<br>NO<br>PXT-1<br>1C<br>MATCH | 75     | -       | -       | 75.5   | 86.2    | 26.5    | -        | -  | 55.5   | 74.5    | 25      | 19      | 70      | 110.5  | 70      | -       | -       | -       | -       | -       |
| RECB<br>24V-DC<br>NC<br>PXT-2<br>1C<br>MATCH | 75     | 131     | 150     | 75.5   | 86.2    | 30.0    | -        | -  | 49.0   | 69.5    | 25      | 14      | 34      | 112.5  | 70      | 85.0    | -       | -       | -       | -       |

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| Type                                         | B [mm] | B1 [mm] | B5 [mm] | D [mm] | D1 [mm] | D2 [mm] | Dmk [mm] | G1   | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L2 [mm] | L3 [mm] | X2 [mm] | X3 [mm] | Y3 [mm] | Y2 [mm] |
|----------------------------------------------|--------|---------|---------|--------|---------|---------|----------|------|--------|---------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|
| RECB<br>24V-DC<br>NO<br>PXT-2<br>1C<br>MATCH | 75     | 131     | 150     | 75.5   | 86.2    | 30.0    | -        | -    | 49.0   | 69.5    | 25      | 14      | 34      | 112.5  | 70      | 85.0    | -       | -       | -       | -       |
| RECB<br>24V-DC<br>NC<br>PXT-2<br>2C<br>MATCH | 75     | 131     | 150     | 75.5   | 86.2    | 30.0    | -        | -    | 74.0   | 94.5    | 25      | 14      | 59      | 112.5  | 70      | 85.0    | -       | -       | -       | -       |
| RECB<br>24V-DC<br>NO<br>PXT-2<br>2C<br>MATCH | 75     | 131     | 150     | 75.5   | 86.2    | 30.0    | -        | -    | 74.0   | 94.5    | 25      | 14      | 59      | 112.5  | 70      | 85.0    | -       | -       | -       | -       |
| RECB<br>24V-DC<br>NC UNI<br>1C<br>MATCH      | 75     | -       | -       | 75.5   | 86.2    | -       | 50       | M6-F | 62.0   | 74.5    | 25      | 19      | -       | 107.5  | 70      | -       | -       | -       | -       | -       |
| RECB<br>24V-DC<br>NO UNI<br>1C<br>MATCH      | 75     | -       | -       | 75.5   | 86.2    | -       | 50       | M6-F | 62.0   | 74.5    | 25      | 19      | -       | 107.5  | 70      | -       | -       | -       | -       | -       |
| RECB<br>24V-DC<br>NC UNI<br>2C<br>MATCH      | 75     | -       | -       | 75.5   | 86.2    | -       | 50       | M6-F | 87.0   | 99.5    | 25      | 19      | -       | 107.5  | 70      | -       | -       | -       | -       | -       |
| RECB<br>24V-DC<br>NO UNI<br>2C<br>MATCH      | 75     | -       | -       | 75.5   | 86.2    | -       | 50       | M6-F | 87.0   | 99.5    | 25      | 19      | -       | 107.5  | 70      | -       | -       | -       | -       | -       |