

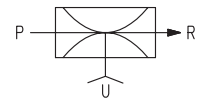
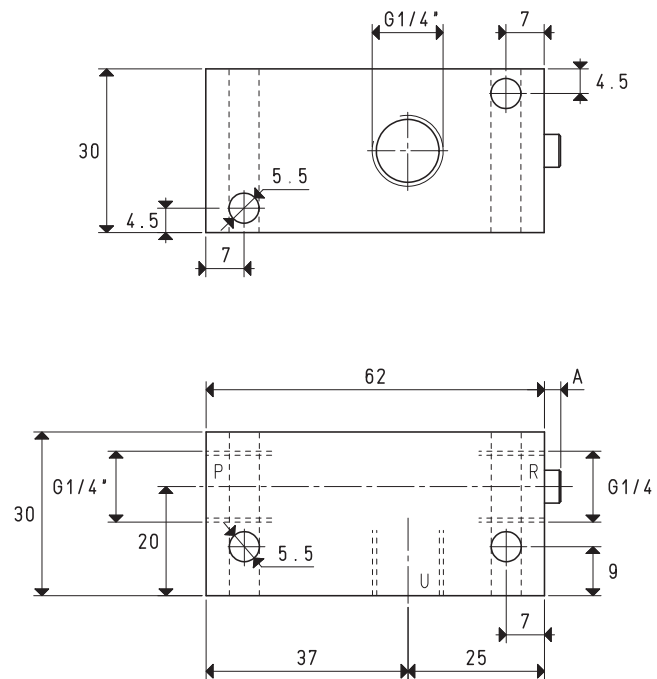
Single-stage vacuum generator operation is based on the Venturi principle.

Supplying the generator with compressed air in P, vacuum will be generated at connection U, while both the supply and the sucked air will be released through R.

By interrupting the air supply in P, the vacuum effect in U will also stop. The optimal air supply pressure is normally 6 bar, but for generators with the letters LP in their item, a pressure lower than 4 bar is sufficient to obtain the best performance. Upon request, the vacuum generators can be supplied with a high sound suppression silencer installed on the R exhaust connection.

The single-stage vacuum generators are generally used to control vacuum cups, for gripping and handling non-porous objects and equipment with low flow rate requirements.

They are fully made with anodised aluminium, with brass or aluminium ejectors, depending on the items.



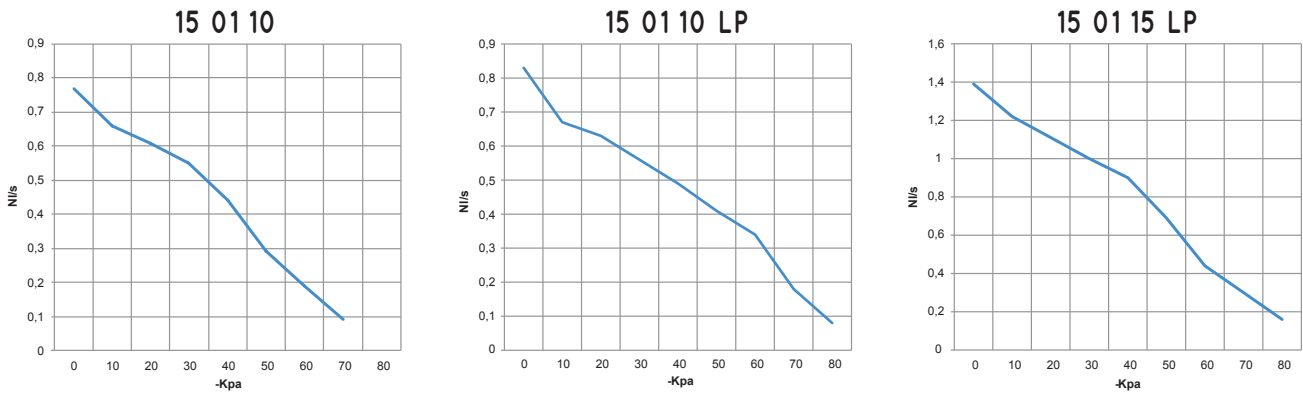
| Item                                   | Unit              | P=COMPRESSED AIR CONNECTION |             |             | R=EXHAUST |             |             | U=VACUUM CONNECTION |             |             |
|--|-------------------|-----------------------------|-------------|-------------|-----------|-------------|-------------|---------------------|-------------|-------------|
|  |                   | 15 01 10                    | 15 01 10 LP | 15 01 15 LP | 15 01 10  | 15 01 10 LP | 15 01 15 LP | 15 01 10            | 15 01 10 LP | 15 01 15 LP |
| Intake air flow rate                   | m <sup>3</sup> /h | 2.7                         | 2.8         | 2.9         | 2.6       | 2.8         | 3.0         | 4.8                 | 4.9         | 5.0         |
| Maximum level of vacuum                | -KPa              | 55                          | 70          | 85          | 43        | 61          | 85          | 40                  | 61          | 85          |
| Final pressure                         | mbar abs.         | 450                         | 300         | 150         | 570       | 390         | 150         | 600                 | 390         | 150         |
| Supply pressure                        | bar               | 4                           | 5           | 6           | 2         | 3           | 4           | 2                   | 3           | 4           |
| Optimal supply pressure                | bar               |                             |             | 6           |           |             | 4           |                     |             | 4           |
| Air consumption                        | NI/s              | 0.7                         | 0.8         | 0.9         | 0.7       | 0.9         | 1.2         | 1.3                 | 1.7         | 2.2         |
| Operating temperature                  | °C                |                             |             | -20 / +100  |           |             | -20 / +100  |                     |             | -20 / +100  |
| Noise level at optimal supply pressure | dB(A)             |                             |             | 63          |           |             | 62          |                     |             | 71          |
| Weight                                 | g                 |                             |             | 140         |           |             | 130         |                     |             | 130         |
| A                                      | mm                |                             |             |             |           |             | 3           |                     |             | 5           |

Note: All vacuum values indicated in the table are valid at the normal atmospheric pressure of 1013 mbar and obtained with a constant supply pressure.

Vacuum generator supply must be carried out with non-lubricated compressed air, 5 micron filtration, in accordance with standard ISO 8573-1 class 4.

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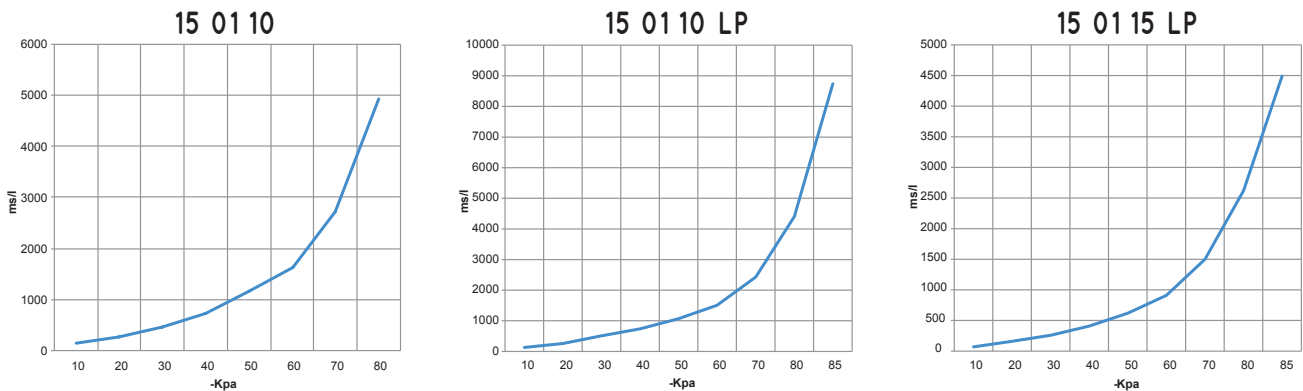
Air flow rate (NI/s) at different level of vacuum (-KPa) at optimal supply pressure



150110 temp

| Generator item | Supp. press. bar | Air consumption NI/s | Air flow rate (NI/s) at different level of vacuum (-KPa) at optimal supply pressure |      |      |      |      |      |      |      |      |    | Max vacuum -KPa |
|----------------|------------------|----------------------|---|------|------|------|------|------|------|------|------|----|-----------------|
|                |                  |                      | 0   | 10   | 20   | 30   | 40   | 50   | 60   | 70   | 80   |    |                 |
| 15 01 10       | 6.0              | 0.9                  | 0.80  | 0.66 | 0.61 | 0.55 | 0.44 | 0.29 | 0.19 | 0.09 | --   | 85 |                 |
| 15 01 10 LP    | 4.0              | 1.2                  | 0.83  | 0.67 | 0.63 | 0.56 | 0.49 | 0.41 | 0.34 | 0.18 | 0.08 | 85 |                 |
| 15 01 15 LP    | 4.0              | 2.2                  | 1.39  | 1.22 | 1.11 | 1.00 | 0.90 | 0.69 | 0.44 | 0.30 | 0.16 | 85 |                 |

Evacuation rates (ms/l = s/m<sup>3</sup>) at different levels of vacuums (-KPa) at optimal supply pressure



| Generator item | Supp. press. bar | Air consumption NI/s | Evacuation rates (ms/l = s/m <sup>3</sup> ) at different levels of vacuums (-KPa) at optimal supply pressure |     |     |     |      |      |      |      | Max vacuum -KPa |    |
|----------------|------------------|----------------------|--|-----|-----|-----|------|------|------|------|-----------------|----|
|                |                  |                      | 10   | 20  | 30  | 40  | 50   | 60   | 70   | 80   |                 | 85 |
| 15 01 10       | 6.0              | 0.9                  | 139  | 278 | 472 | 727 | 1171 | 1628 | 2720 | 4928 | --              | 85 |
| 15 01 10 LP    | 4.0              | 1.2                  | 130  | 260 | 510 | 740 | 1070 | 1510 | 2430 | 4400 | 8740            | 85 |
| 15 01 15 LP    | 4.0              | 2.2                  | 70   | 160 | 260 | 410 | 620  | 910  | 1500 | 2620 | 4490            | 85 |

## ACCESSORIES UPON REQUEST

Silencer item SSX 1/4"

