The suction plates PX described on this page are installed as standard on all OCTOPUS systems and, therefore, can be supplied as a spare or replacement part.
They are made with anodised aluminium sheets with calibrated holes equidistant from each other and coated with a special perforated foam rubber with two different thicknesses: 15 mm for suction plates of the PX range; 30 mm , for special suction plates of the P2X range. The foam rubber is also perforated at the calibrated holes, but its holes have a diameter of 15 mm . The use of calibrated holes allows for exact calculation of the flow rate of the vacuum generator to be used, to ensure that, even in the presence of losses due to transpiration or even in case of failure to cover the object to be gripped, a minimum sufficient level of vacuum remains for gripping and handling the load.
Their lifting force was calculated considering a level of vacuum of at least -75 Kpa , the total surface of the holes within the foam rubber and a factor of safety 3 .


| Item | Force Kg | A | B | $\begin{aligned} & \mathbf{C} \\ & \emptyset \end{aligned}$ | $\begin{aligned} & \mathbf{D} \\ & \emptyset \end{aligned}$ | E | F | H | Holes No. | Only rubber item | Weight Kg |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PX 0712 | 4.0 | 70 | 120 | 15 | --- | 5 | 15 | 20 | 28 | X 0712 | 0.13 |
| PX 0808 | 3.0 | 80 | 80 | 15 | --- | 5 | 15 | 20 | 16 | X 0808 | 0.12 |
| PX 1520 | 21.2 | 150 | 200 | 15 | --- | 5 | 15 | 20 | 48 | X 1520 | 0.40 |
| PX 2030 | 42.4 | 200 | 300 | 15 | --- | 5 | 15 | 20 | 96 | $\times 2030$ | 0.80 |
| PX 2040 | 56.6 | 200 | 400 | 15 | --- | 5 | 15 | 20 | 128 | $\times 2040$ | 1.10 |
| PX 2060 | 84.8 | 200 | 600 | 15 | --- | 5 | 15 | 20 | 192 | $\times 2060$ | 1.70 |
| PX 3030 | 63.6 | 300 | 300 | 15 | --- | 5 | 15 | 20 | 144 | $\times 3030$ | 1.30 |
| PX 3040 | 84.8 | 300 | 400 | 15 | --- | 5 | 15 | 20 | 192 | X 3040 | 1.70 |
| PX 3050 | 106.0 | 300 | 500 | 15 | --- | 5 | 15 | 20 | 240 | $\times 3050$ | 2.10 |
| PX 4040 | 113.1 | 400 | 400 | 15 | --- | 5 | 15 | 20 | 256 | $\times 4040$ | 2.20 |
| PX 4060 | 169.6 | 400 | 600 | 15 | --- | 5 | 15 | 20 | 384 | $\times 4060$ | 3.40 |
| PX 40100 | 282.6 | 400 | 1000 | 15 | --- | 5 | 15 | 20 | 656 | X 40100 | 5.60 |
| PX 6080 | 339.2 | 600 | 800 | 15 | --- | 5 | 15 | 20 | 768 | X 6080 | 6.70 |
| PX 60120 | 508.7 | 600 | 1200 | 15 | --- | 5 | 15 | 20 | 1176 | X 60120 | 10.10 |
| PX 80100 | 597.4 | 800 | 1000 | 15 | --- | 5 | 15 | 20 | 1353 | X 80100 | 11.30 |
| PX DO 10 | 9.0 | --- | --- | 15 | 100 | 5 | 15 | 20 | 21 | X DO 10 | 0.12 |
| PX DO 35 | 65.4 | --- | --- | 15 | 350 | 5 | 15 | 20 | 148 | X DO 35 | 1.30 |
| PX DO 50 | 139.6 | --- | --- | 15 | 500 | 5 | 15 | 20 | 316 | X DO 50 | 2.30 |
| P2X 0712 | 4.0 | 70 | 120 | 15 | --- | 5 | 30 | 35 | 28 | $2 \times 0712$ | 0.26 |
| P2X 0808 | 3.0 | 80 | 80 | 15 | --- | 5 | 30 | 35 | 16 | 2X 0808 | 0.24 |
| P2X 1520 | 21.2 | 150 | 200 | 15 | --- | 5 | 30 | 35 | 48 | $2 \times 1520$ | 0.44 |
| P2X 2030 | 42.4 | 200 | 300 | 15 | --- | 5 | 30 | 35 | 96 | $2 \times 2030$ | 0.89 |
| P2X 2040 | 56.6 | 200 | 400 | 15 | --- | 5 | 30 | 35 | 128 | $2 \times 2040$ | 1.21 |
| P2X 2060 | 84.8 | 200 | 600 | 15 | --- | 5 | 30 | 35 | 192 | $2 \times 2060$ | 1.77 |
| P2X 3030 | 63.6 | 300 | 300 | 15 | --- | 5 | 30 | 35 | 144 | $2 \times 3030$ | 1.36 |
| P2X 3040 | 84.8 | 300 | 400 | 15 | --- | 5 | 30 | 35 | 192 | $2 \times 3040$ | 1.78 |
| P2X 3050 | 106.0 | 300 | 500 | 15 | --- | 5 | 30 | 35 | 240 | $2 \times 3050$ | 2.22 |
| P2X 4040 | 113.1 | 400 | 400 | 15 | --- | 5 | 30 | 35 | 256 | $2 \times 4040$ | 2.41 |
| P2X 4060 | 169.6 | 400 | 600 | 15 | --- | 5 | 30 | 35 | 384 | $2 \times 4060$ | 3.55 |
| P2X 40100 | 282.6 | 400 | 1000 | 15 | --- | 5 | 30 | 35 | 656 | 2X 40100 | 5.96 |
| P2X 6080 | 339.2 | 600 | 800 | 15 | --- | 5 | 30 | 35 | 768 | 2X 6080 | 7.18 |
| P2X 60120 | 508.7 | 600 | 1200 | 15 | --- | 5 | 30 | 35 | 1176 | 2X 60120 | 10.73 |
| P2X 80100 | 597.4 | 800 | 1000 | 15 | --- | 5 | 30 | 35 | 1353 | 2X 80100 | 11.93 |
| P2X DO 10 | 9.0 | --- | --- | 15 | 100 | 5 | 30 | 35 | 21 | 2X D0 10 | 0.14 |
| P2X DO 35 | 65.4 | --- | --- | 15 | 350 | 5 | 30 | 35 | 148 | 2X DO 35 | 1.49 |
| P2X DO 50 | 139.6 | --- | -- | 15 | 500 | 5 | 30 | 35 | 316 | 2X DO 50 | 2.48 |



[^0]
[^0]:    Transformation ratio: N (newton) $=\mathrm{Kg} \times 9.81$ (force of gravity) $\quad$ inch $=\frac{\mathrm{mm}}{25.4}$; pounds $=\frac{\mathrm{g}}{453.6}=\frac{\mathrm{Kg}}{0.4536}$

