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(12)

United States Design Patent

Rieger et al.

(10)

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(45)

Date of Patent:

** Aug. 13, 2024

(54) VALVE ACTUATOR

DESCRIPTION

(71) Applicant: **AUMA Riester GmbH & Co. KG**,
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(72) Inventors: **Sebastian Rieger**, Stuttgart (DE); **Hans Georg Kloster**, Stuttgart (DE)

(73) Assignee: **Auma Riester GmbH & Co. KG**,
Müllheim (DE)

(**) Term: **15 Years**

(21) Appl. No.: **35/516,395**

(22) Filed: **Feb. 2, 2023**

(80) **Hague Agreement Data**

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(51) **LOC (14) Cl.** **23-01**

(52) **U.S. Cl.**
USPC **D23/249**

(58) **Field of Classification Search**
USPC D23/233, 249, 245, 252, 22; D15/148,
D15/199

1. Valve actuator
2. Valve actuator
3. Valve actuator
4. Valve actuator
5. Valve actuator
6. Valve actuator

Figure 1.1 is a perspective view of a valve actuator showing my new design according to a first embodiment;
Figure 1.2 is a front view thereof;
Figure 1.3 is a rear view thereof;
Figure 1.4 is a right view thereof;
Figure 1.5 is a left view thereof;
Figure 1.6 is a top view thereof;
Figure 1.7 is a bottom view thereof;
Figure 2.1 is a perspective view of a valve actuator showing my new design according to a second embodiment;
Figure 2.2 is a front view thereof;
Figure 2.3 is a rear view thereof;
Figure 2.4 is a right view thereof;
Figure 2.5 is a left view thereof;
Figure 2.6 is a top view thereof;
Figure 2.7 is a bottom view thereof;
Figure 3.1 is a perspective view of a valve actuator showing my new design according to a third embodiment;
Figure 3.2 is a front view thereof;
Figure 3.3 is a rear view thereof;
Figure 3.4 is a right view thereof;
Figure 3.5 is a left view thereof;
Figure 3.6 is a top view thereof;
Figure 3.7 is a bottom view thereof;
Figure 4.1 is a perspective view of a valve actuator showing my new design according to a fourth embodiment;
Figure 4.2 is a front view thereof;
Figure 4.3 is a rear view thereof;
Figure 4.4 is a right view thereof;
Figure 4.5 is a left view thereof;
Figure 4.6 is a top view thereof;
Figure 4.7 is a bottom view thereof;
Figure 5.1 is a perspective view of a valve actuator showing my new design according to a fifth embodiment;
Figure 5.2 is a front view thereof;

(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

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Primary Examiner — Gino Colan
(74) Attorney, Agent, or Firm — Volpe Koenig

(57) **CLAIM**

The ornamental design for a valve actuator, as shown and described.

(Continued)

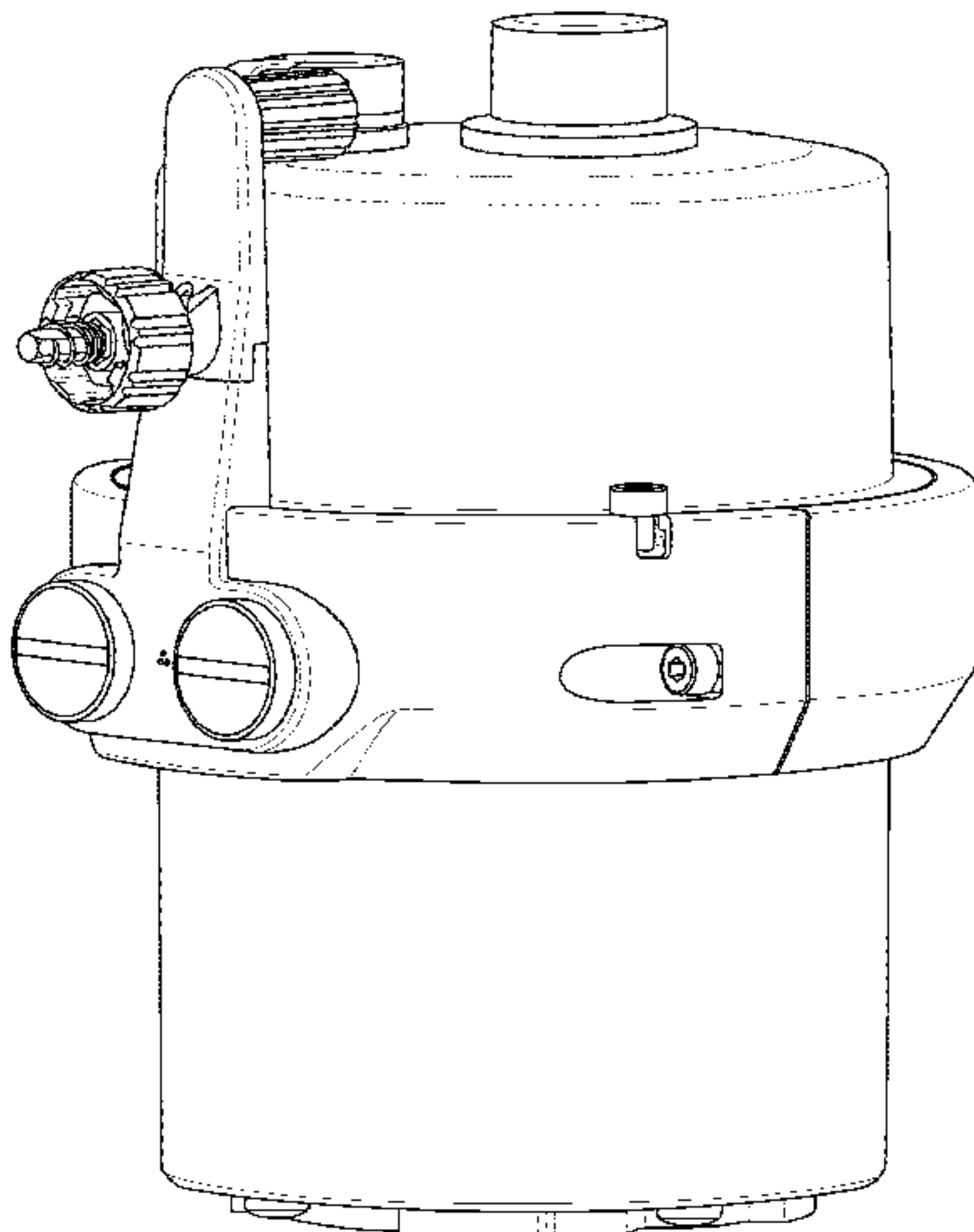


Figure 5.3 is a rear view thereof;
Figure 5.4 is a right view thereof;
Figure 5.5 is a left view thereof;
Figure 5.6 is a top view thereof;
Figure 5.7 is a bottom view thereof;
Figure 6.1 is a perspective view of a valve actuator showing my new design according to a sixth embodiment;
Figure 6.2 is a front view thereof;
Figure 6.3 is a rear view thereof;
Figure 6.4 is a right view thereof;
Figure 6.5 is a left view thereof;
Figure 6.6 is a top view thereof; and
Figure 6.7 is a bottom view thereof.
The evenly spaced broken lines shown in the figures are for the purpose of illustrating portions of the valve actuator that form no part of the claimed design. The fogged-out portions of the valve actuator surrounded by white dot-dash boundary lines in Figures 3.7 and 5.7 form no part of the claimed design.
1. Name of product in which the design is embodied: valve actuator; 2. Intended use of the product: it is used for

regulating a valve; 3. Key design feature: shape of the product; 4. View best illustrating the key design feature: perspective view of the first design; 5. Basic design: Design 1.

1 Claim, 42 Drawing Sheets

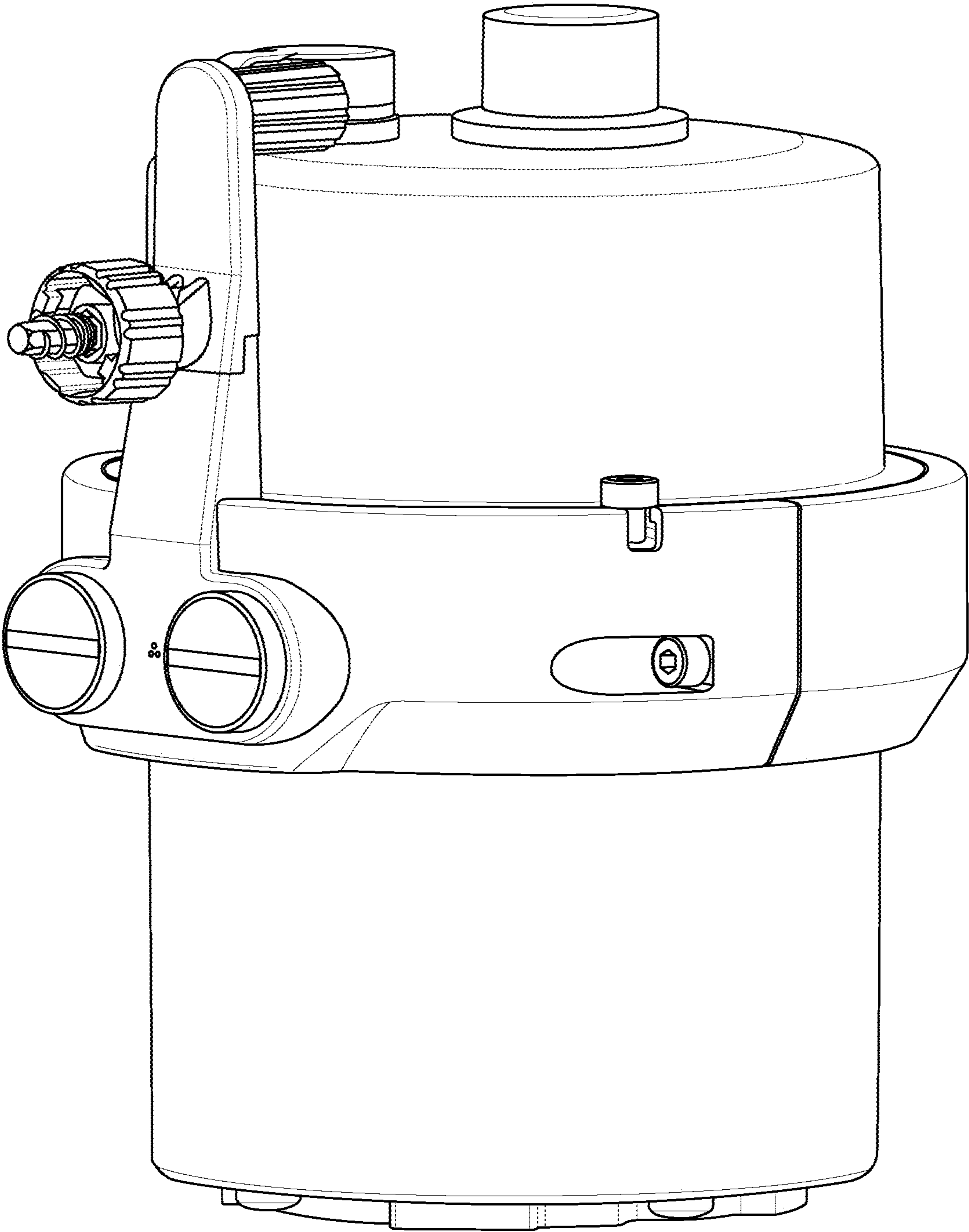
(58) **Field of Classification Search**
CPC .. F16K 37/0041; F16K 31/05; F16K 37/0083;
F16K 27/029
See application file for complete search history.

(56) **References Cited**

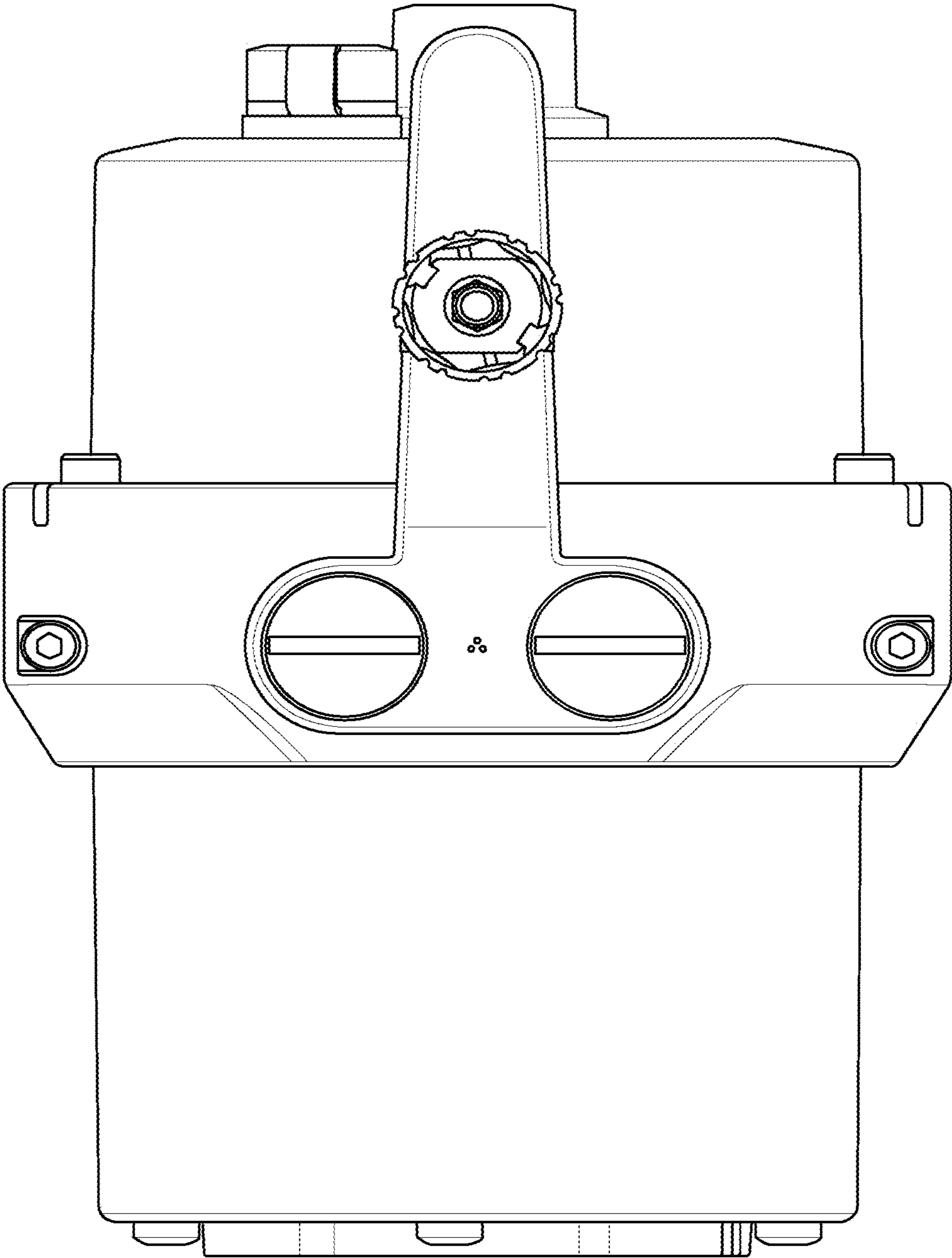
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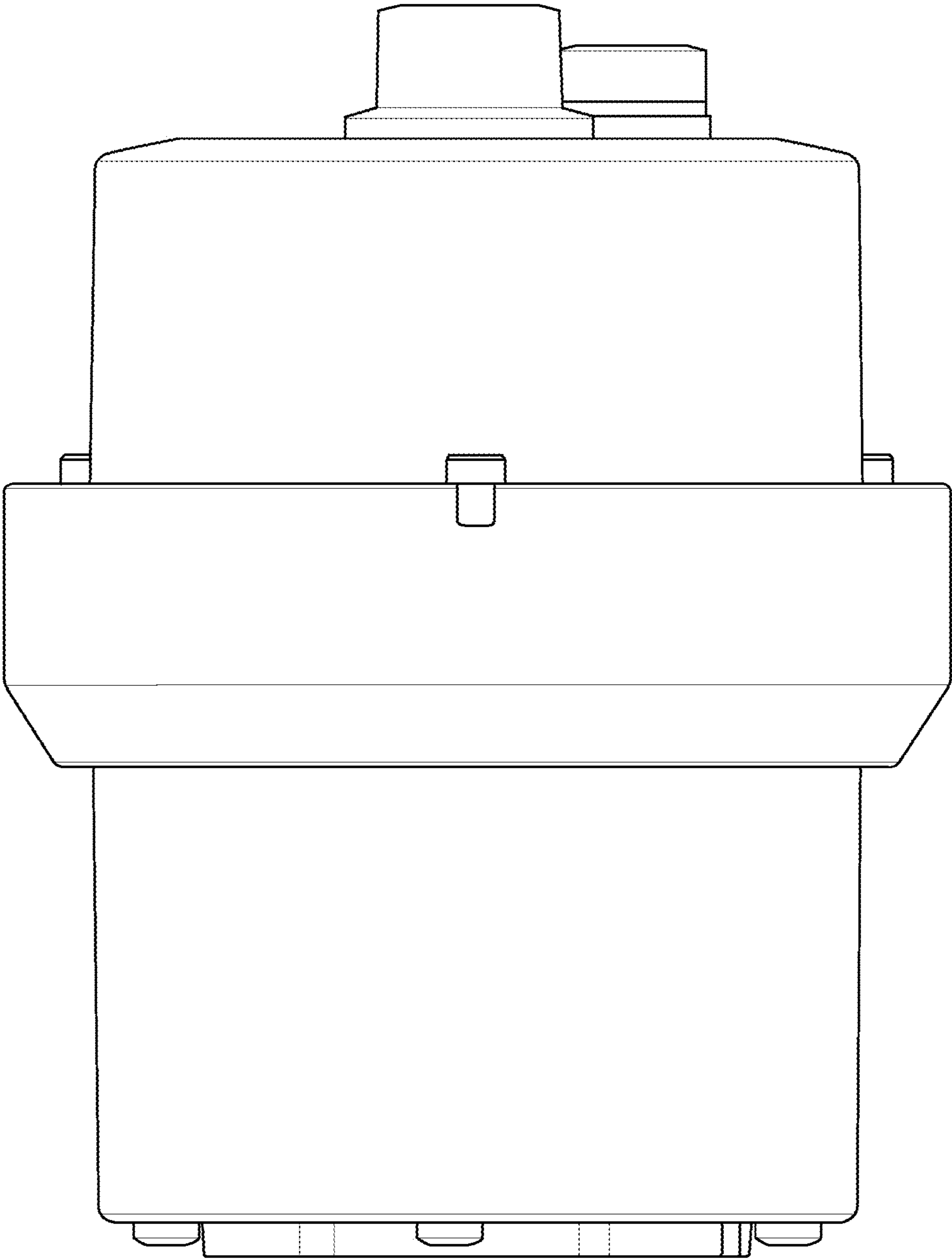
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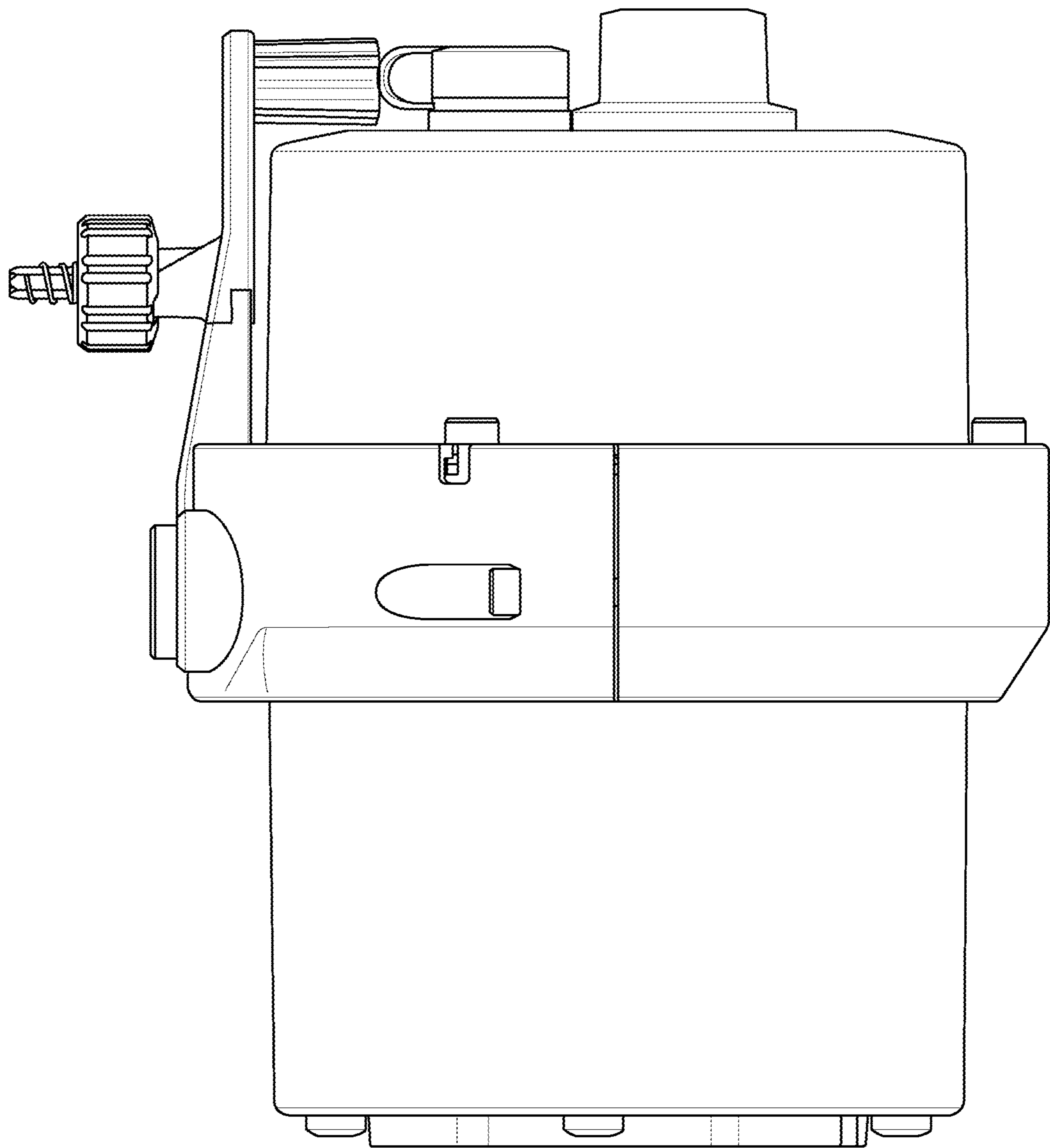


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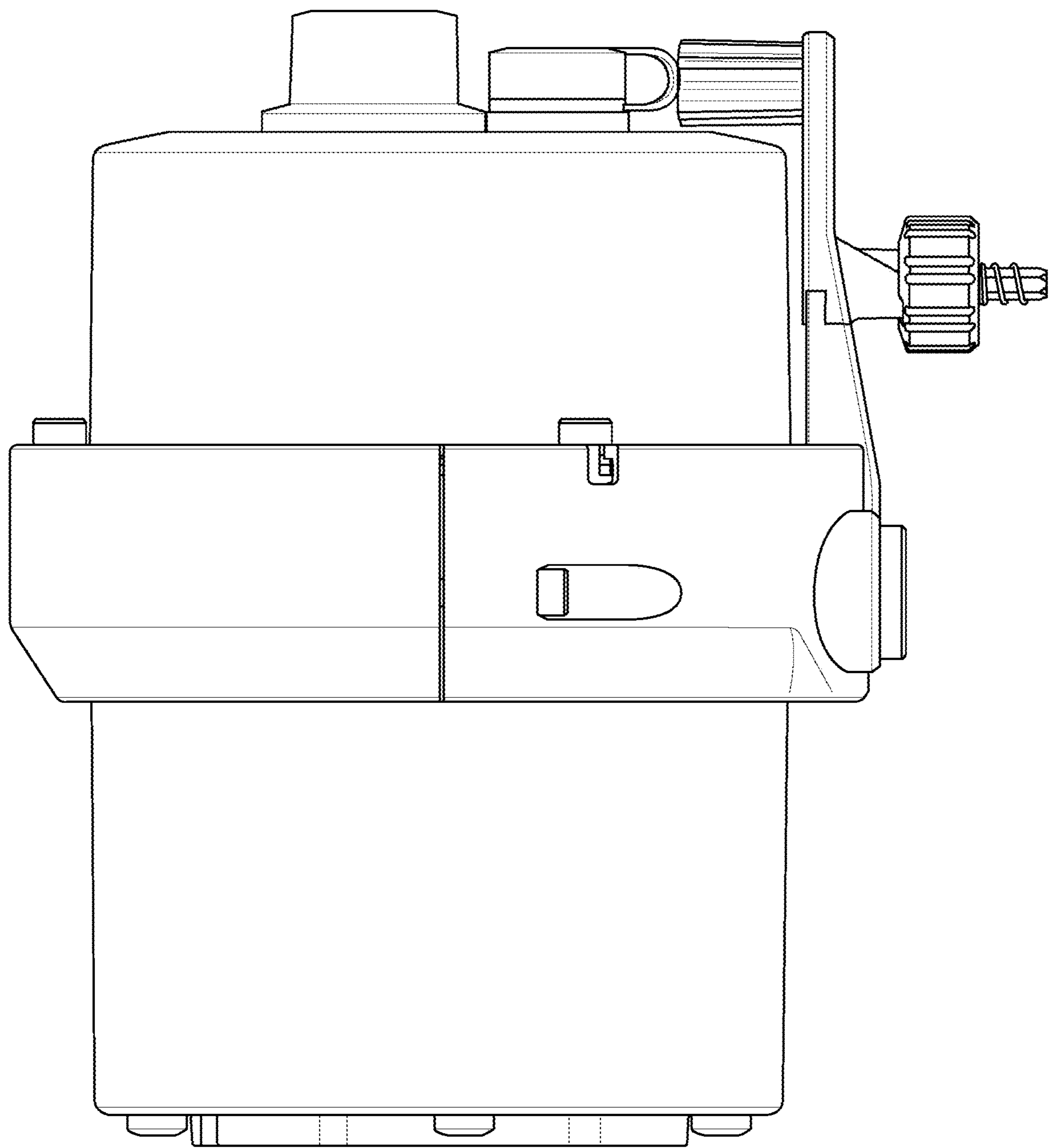




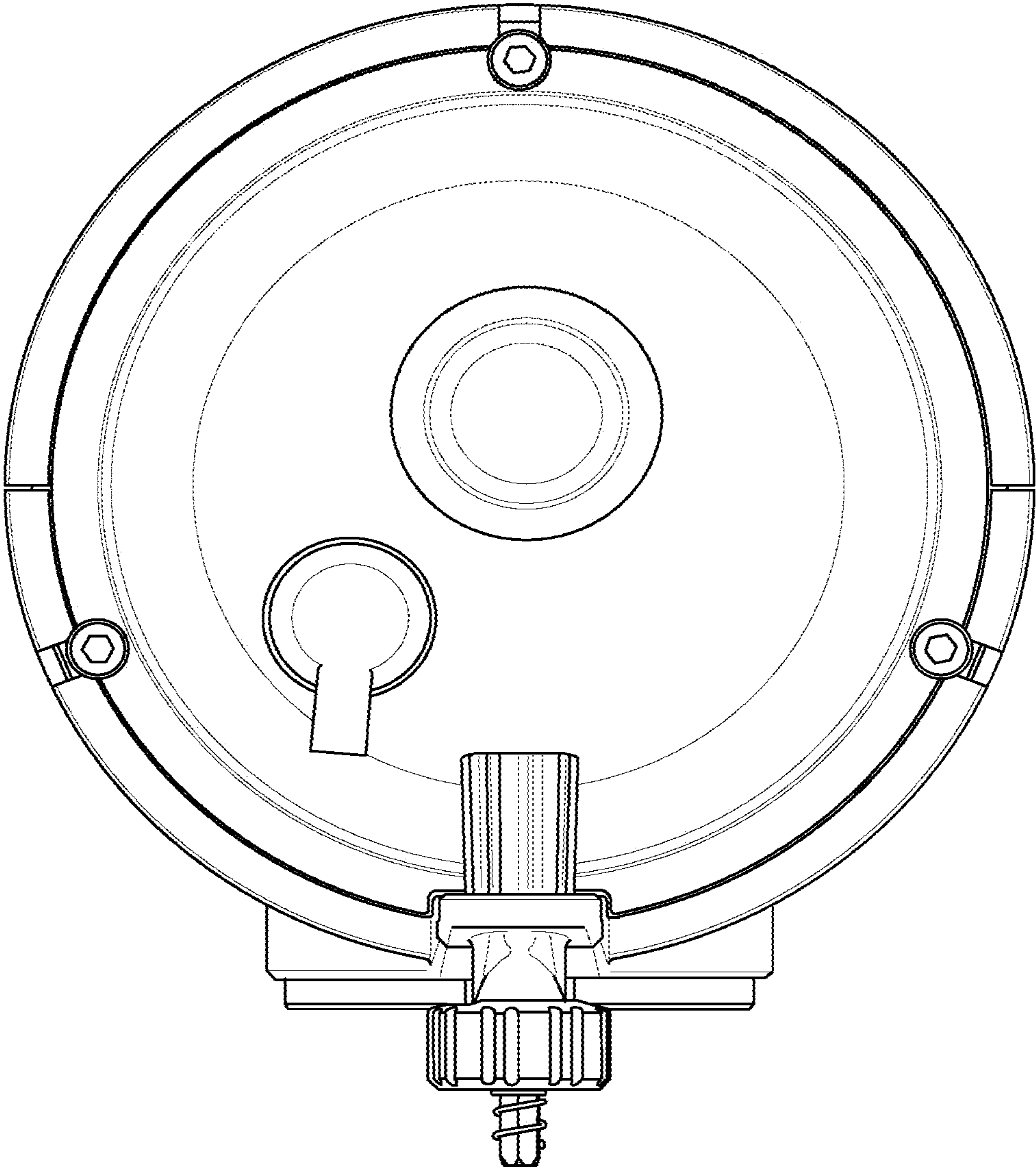
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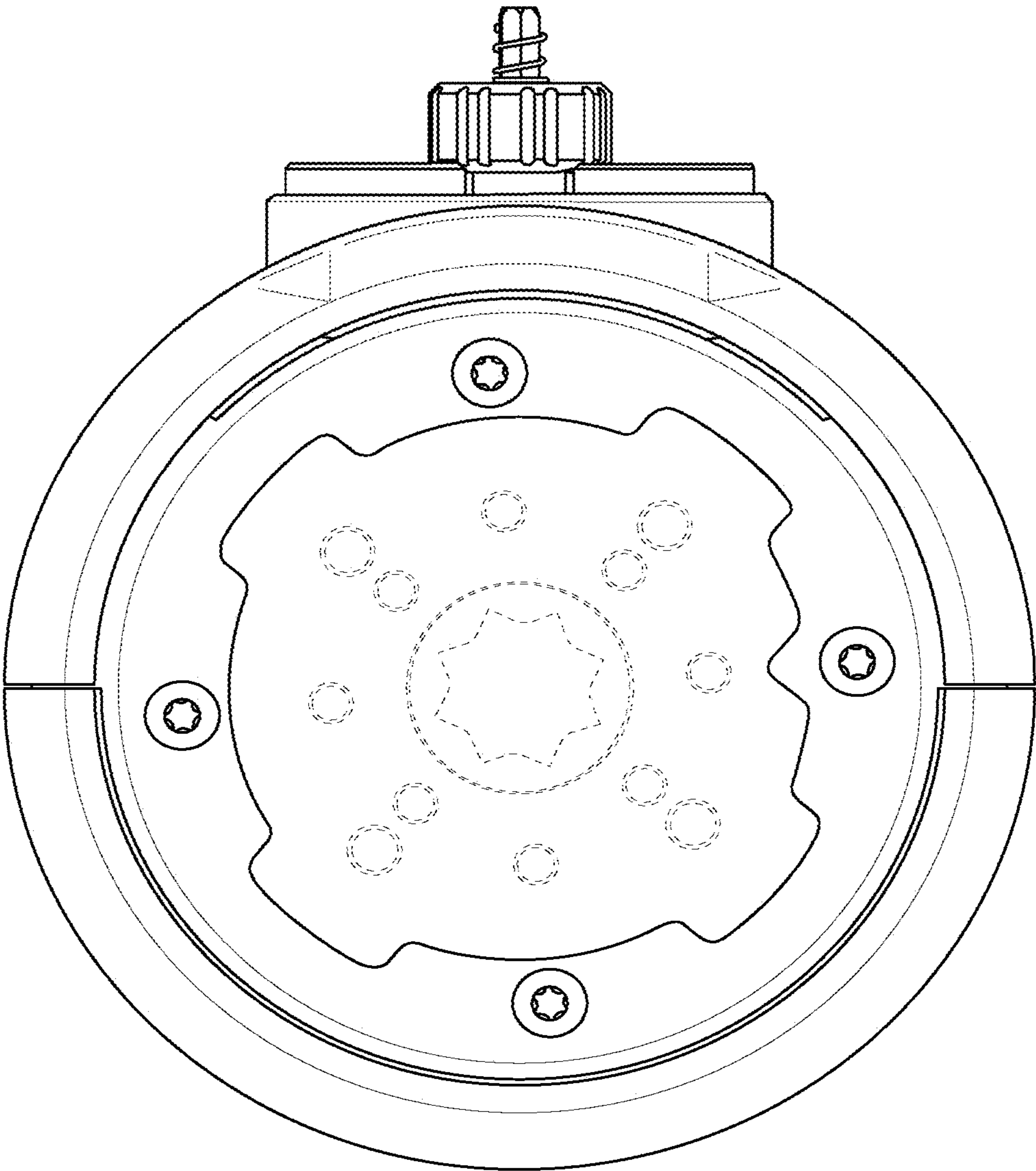
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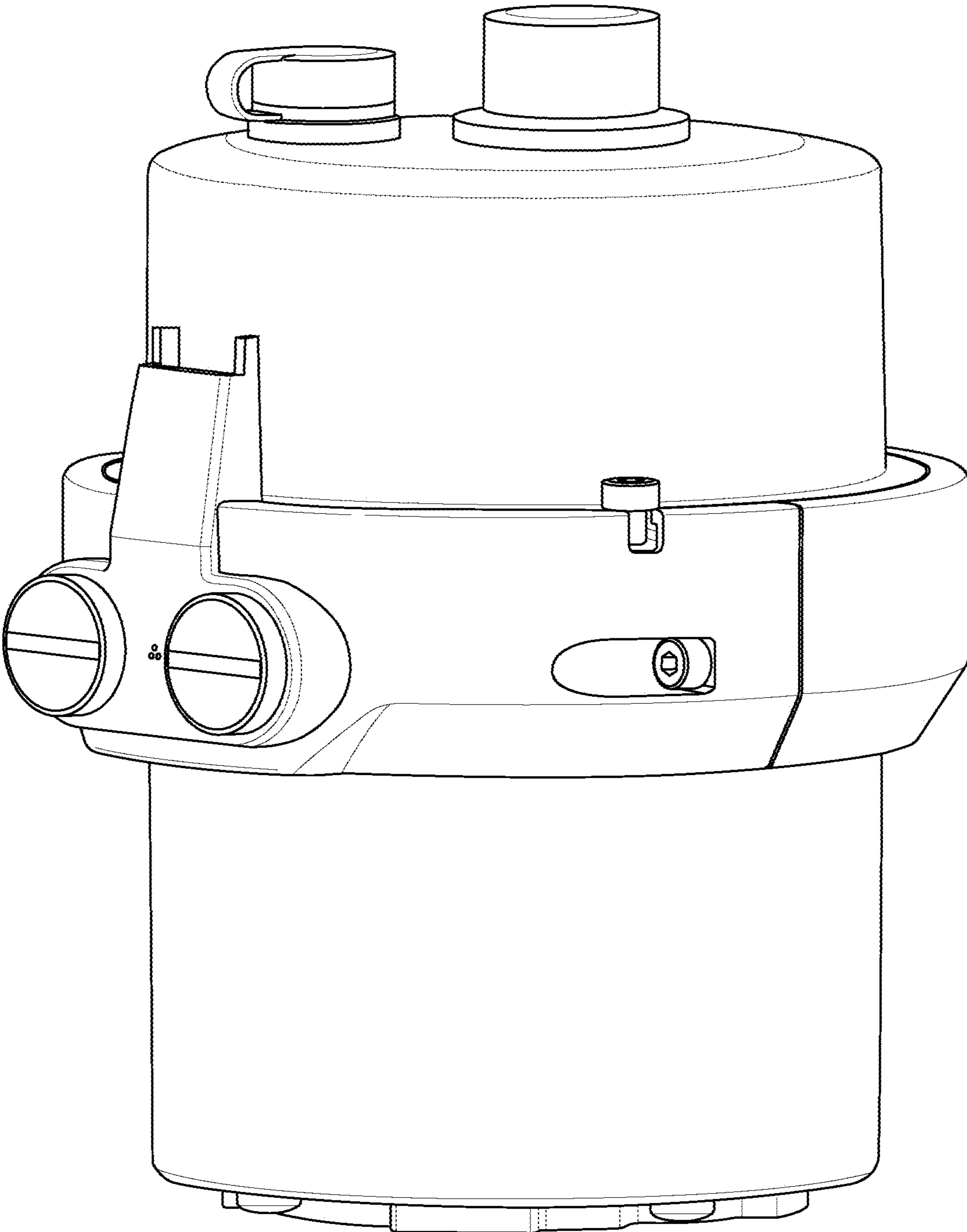
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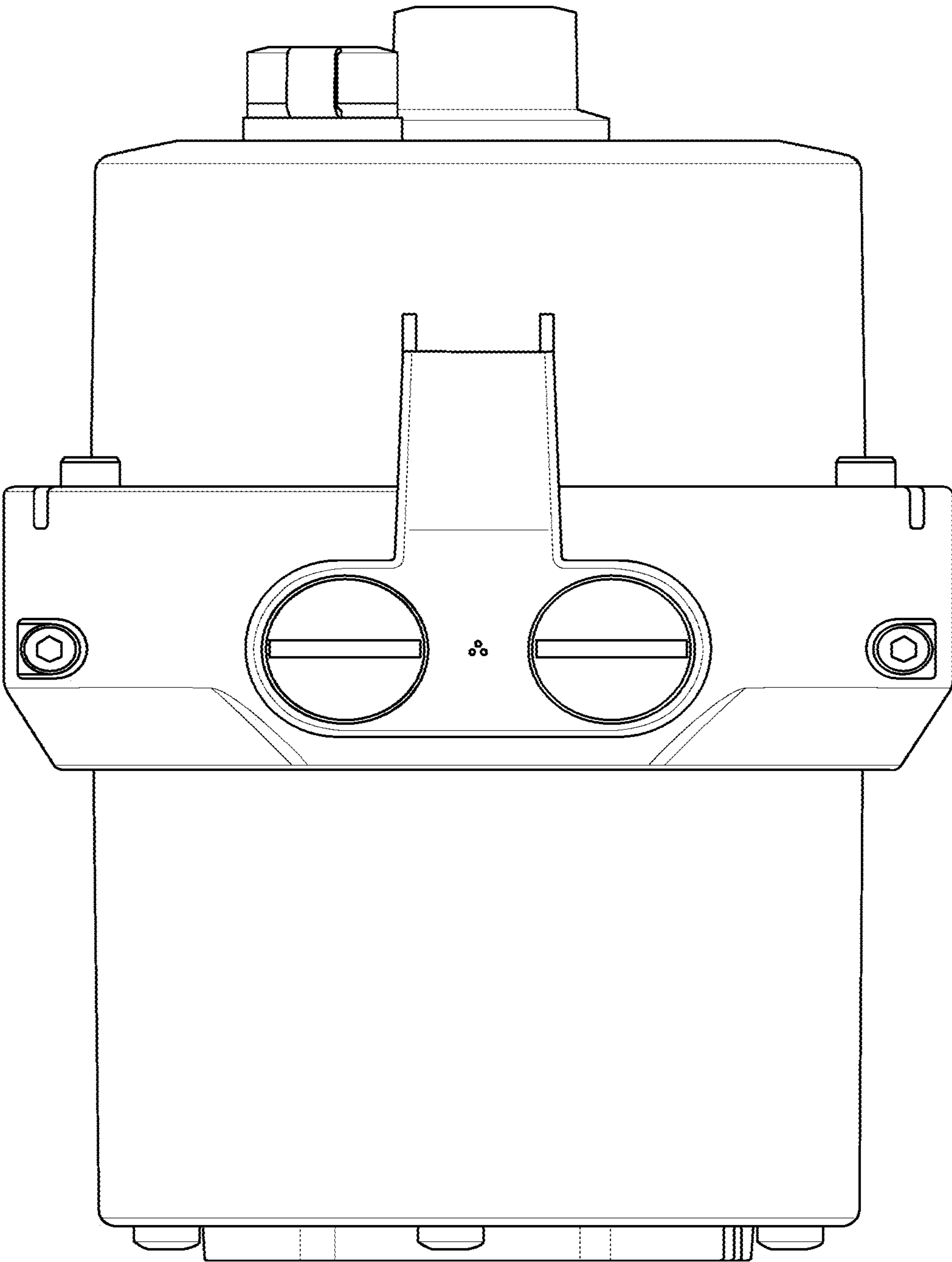
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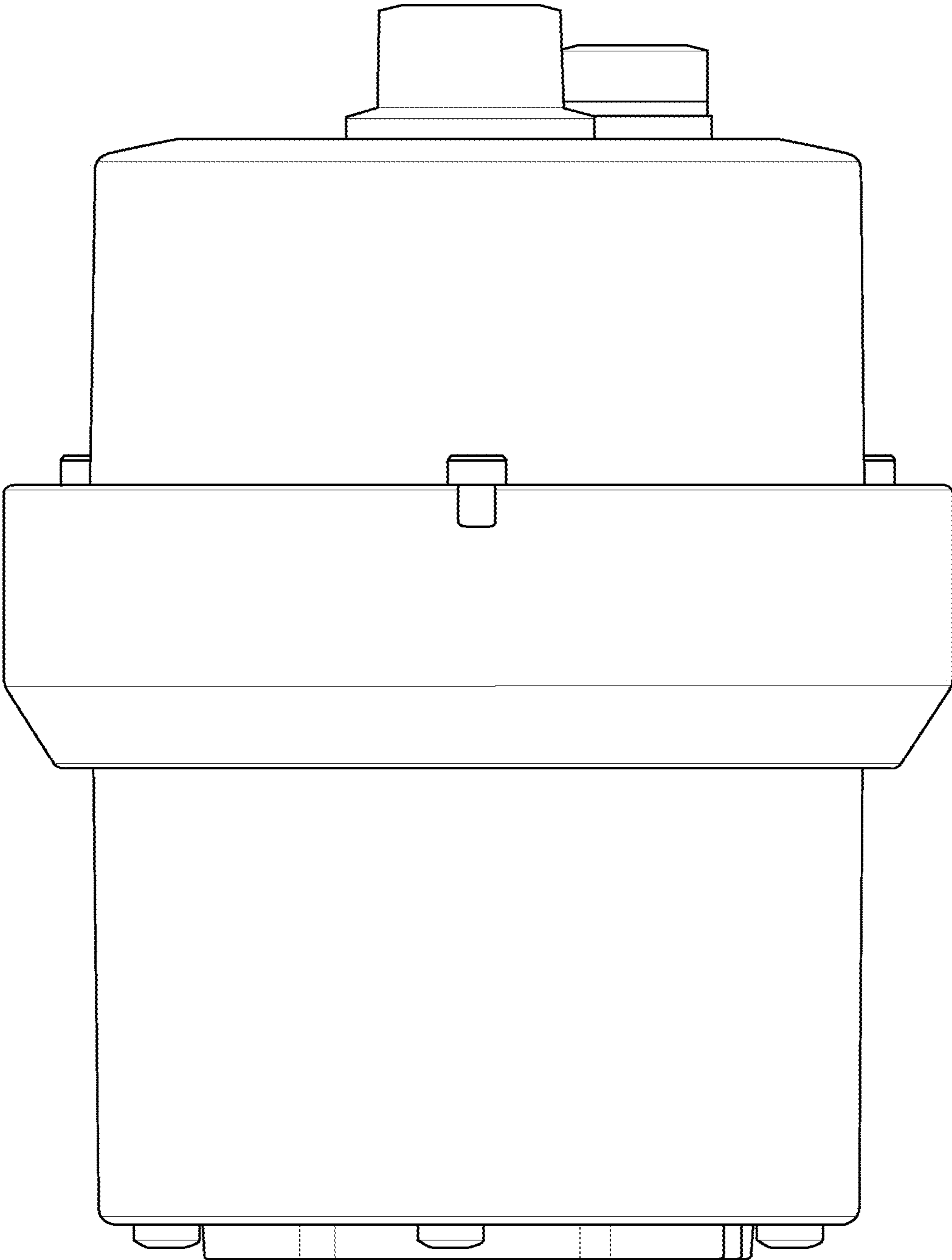
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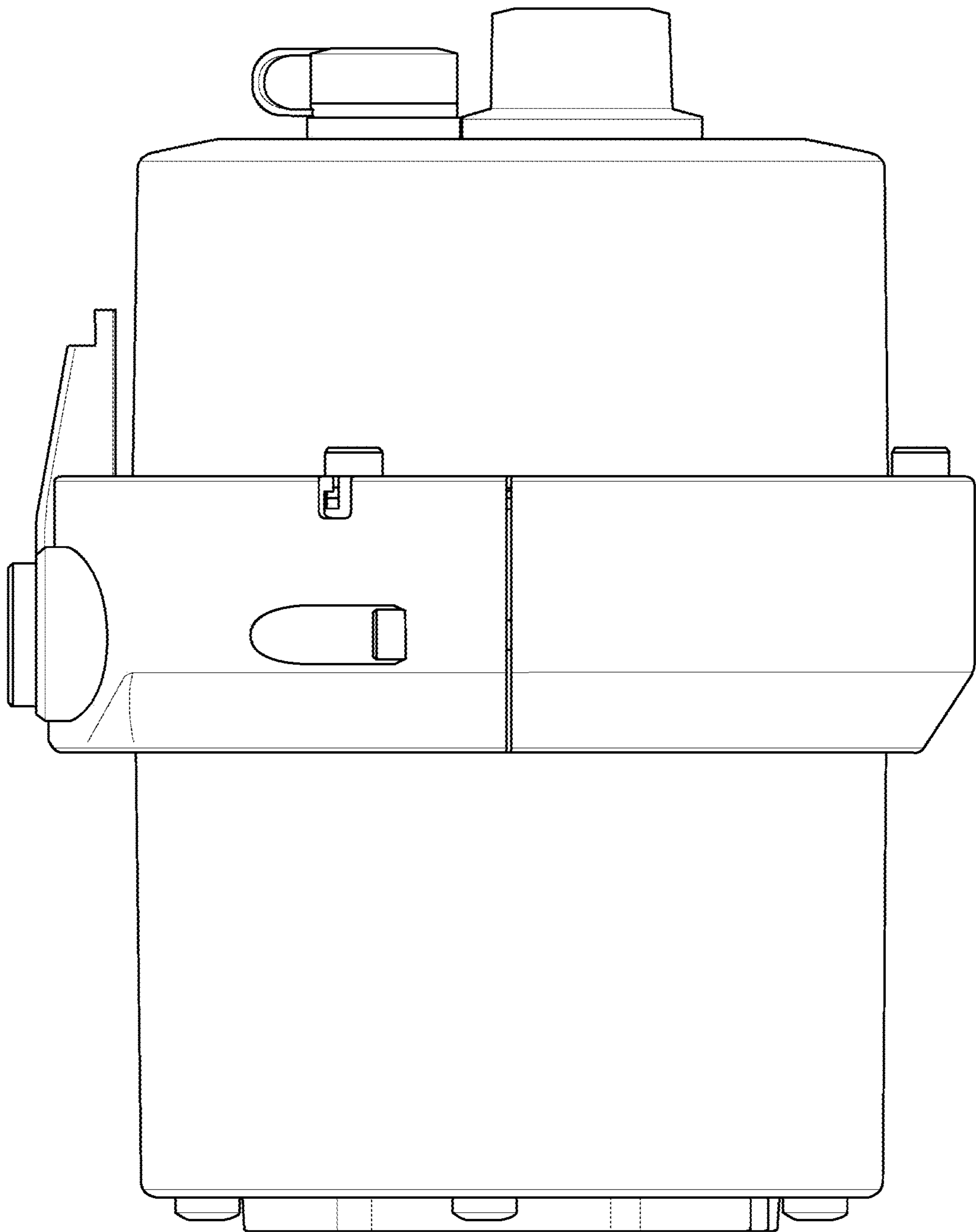
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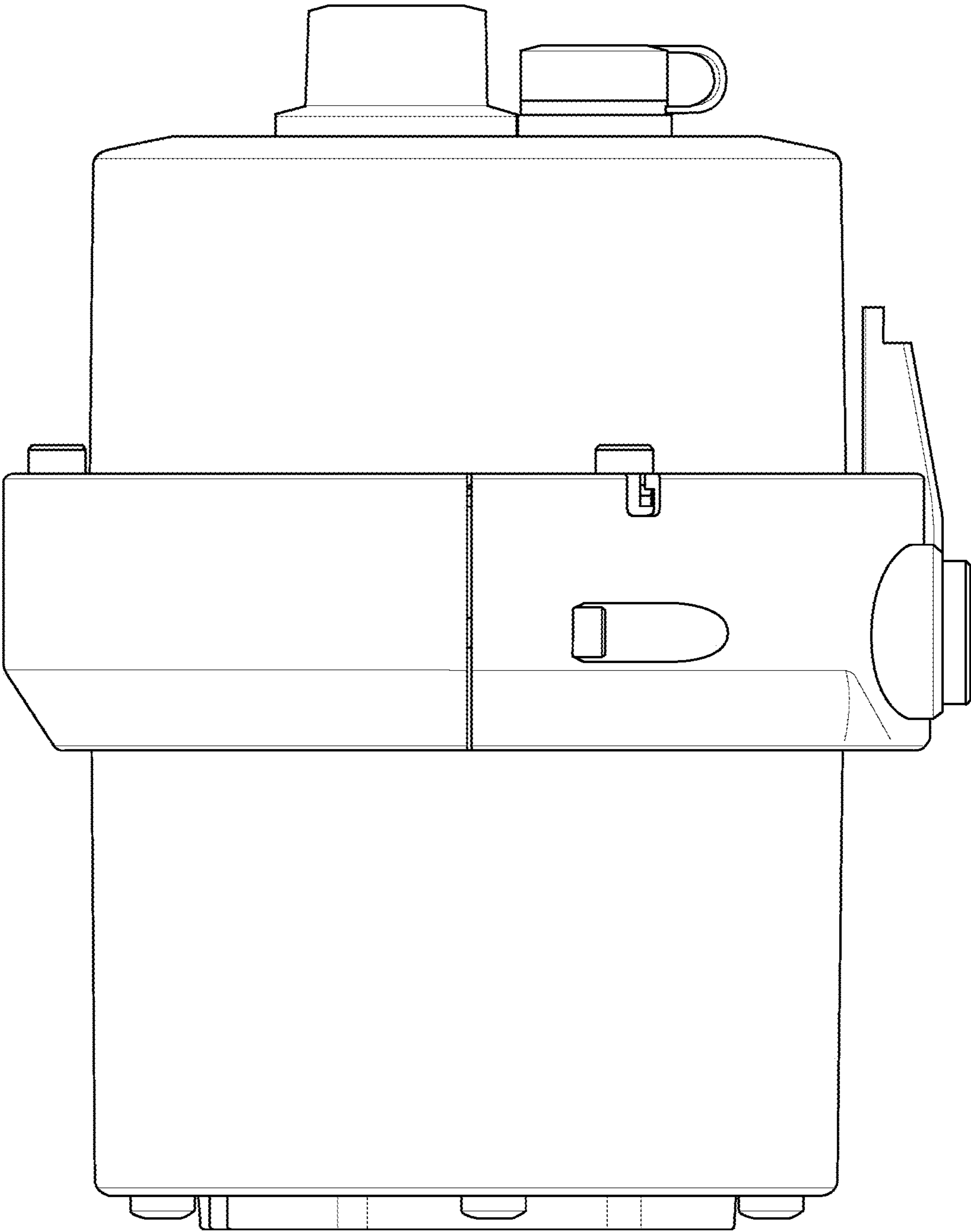
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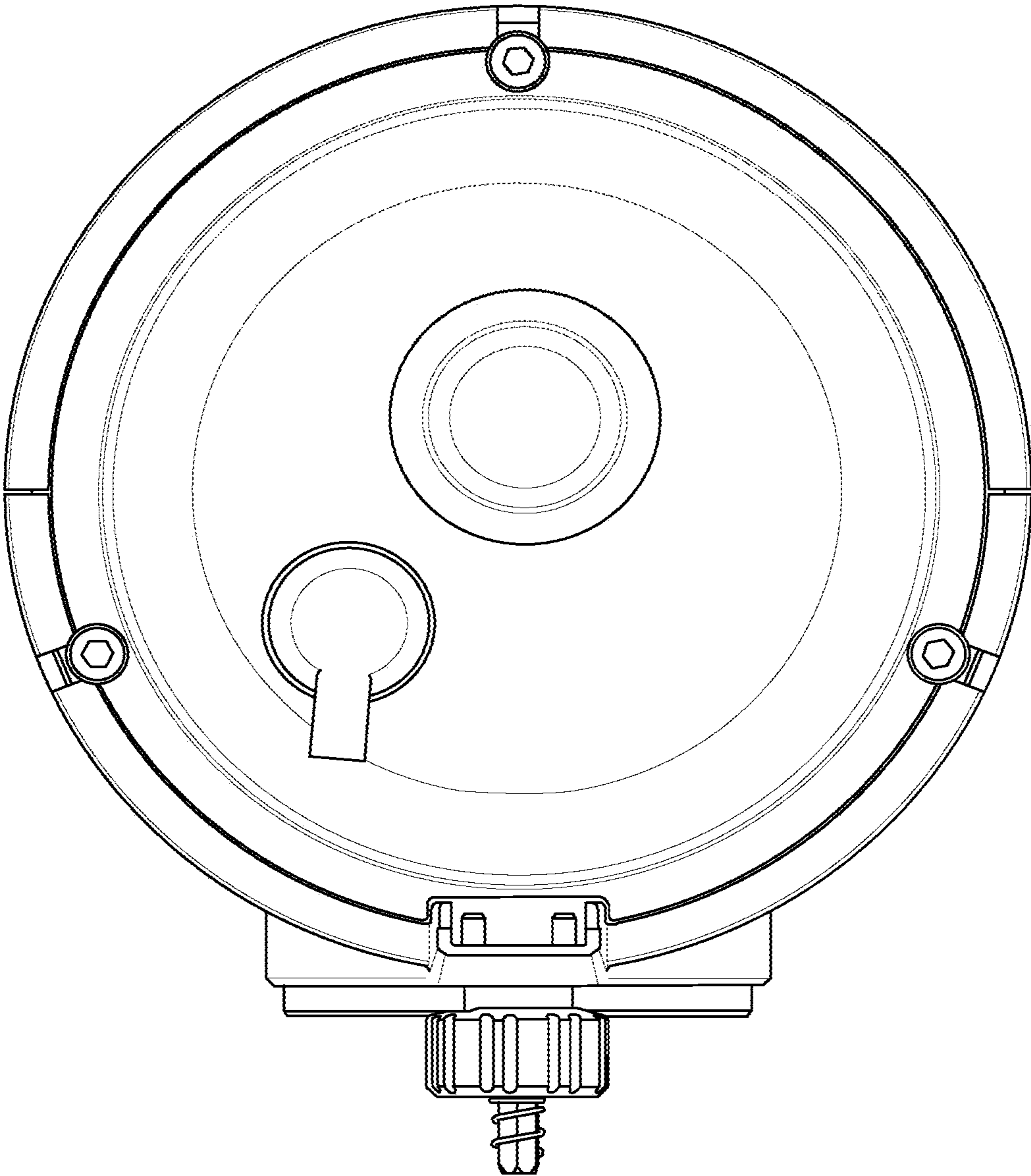


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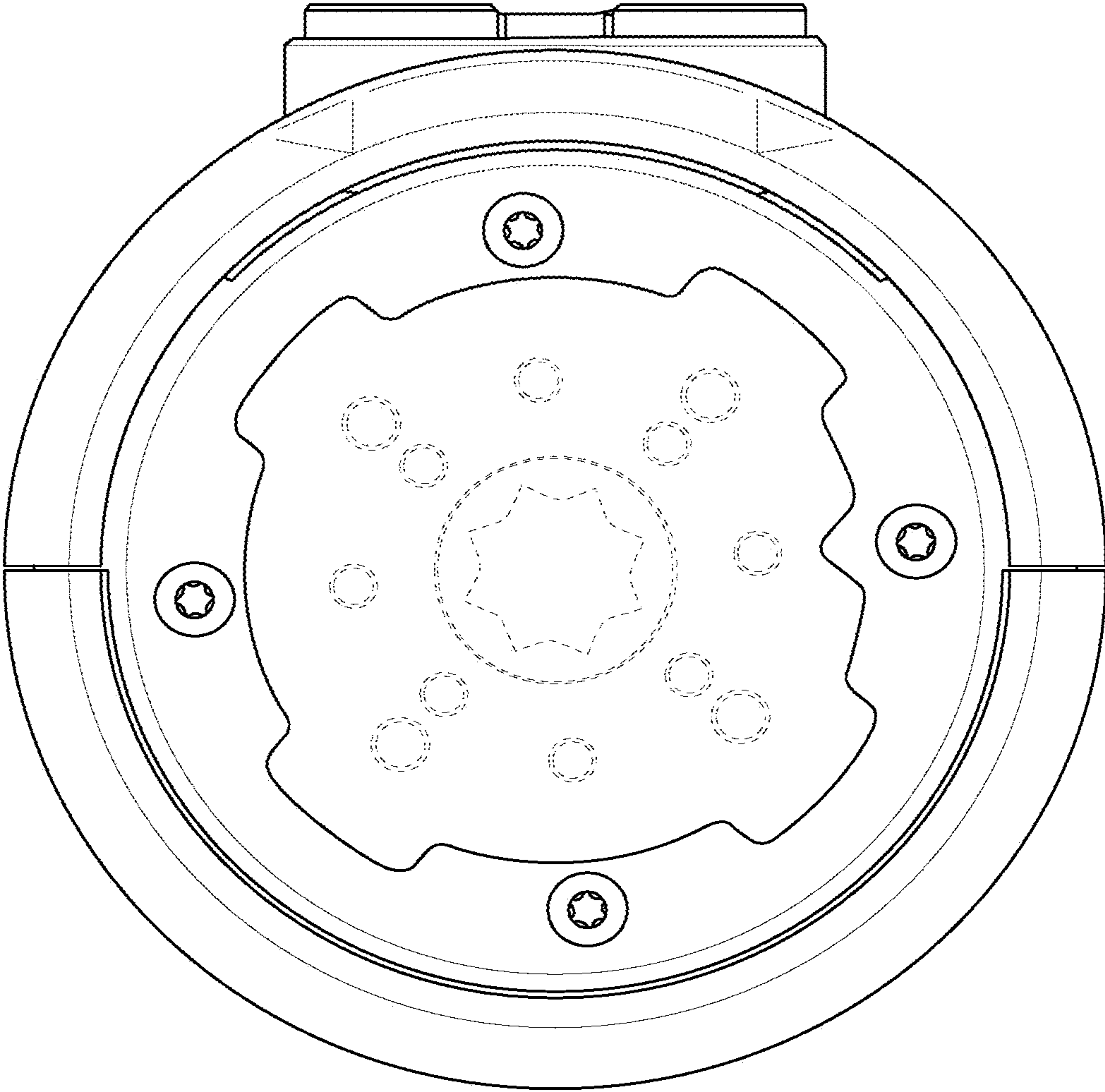


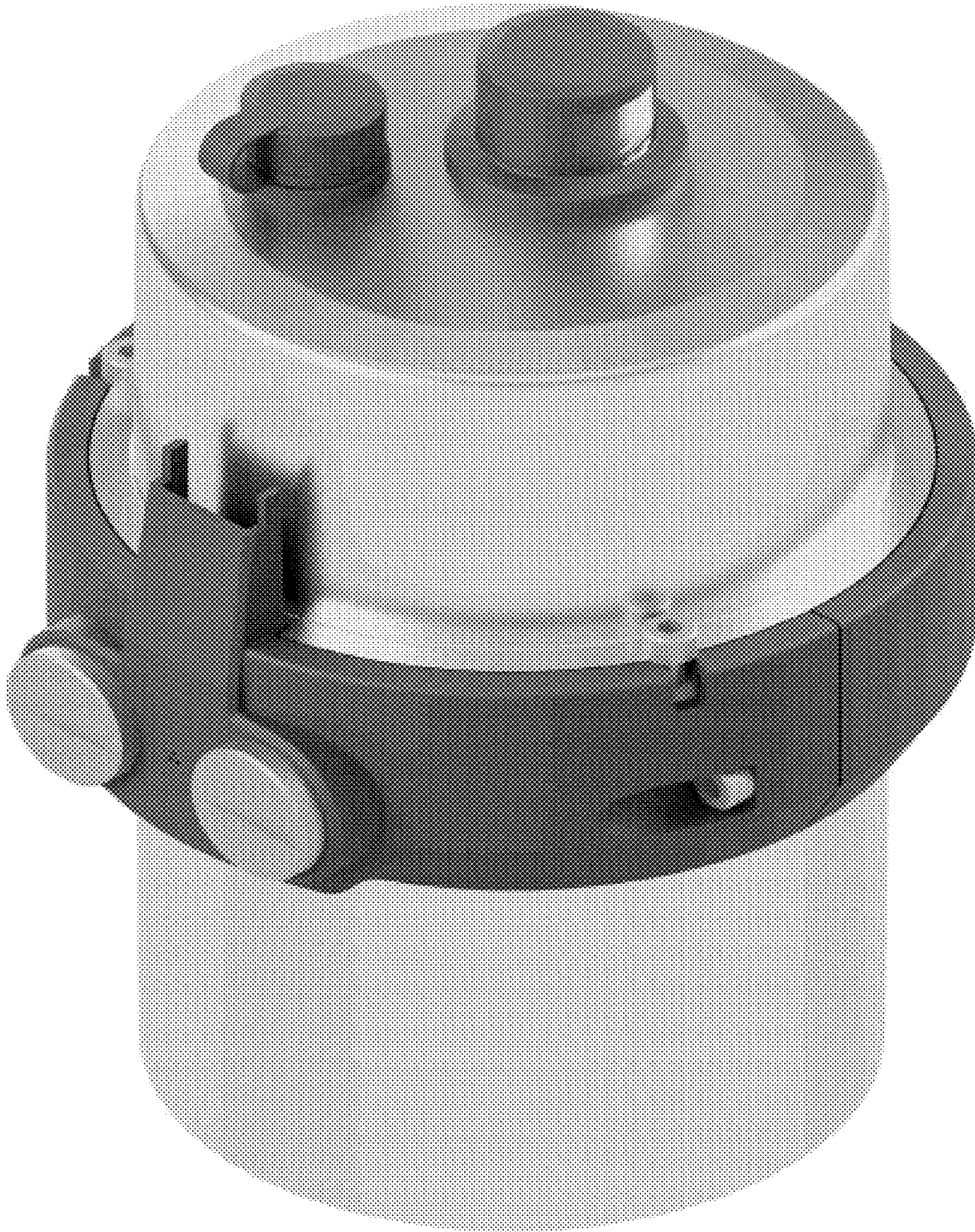
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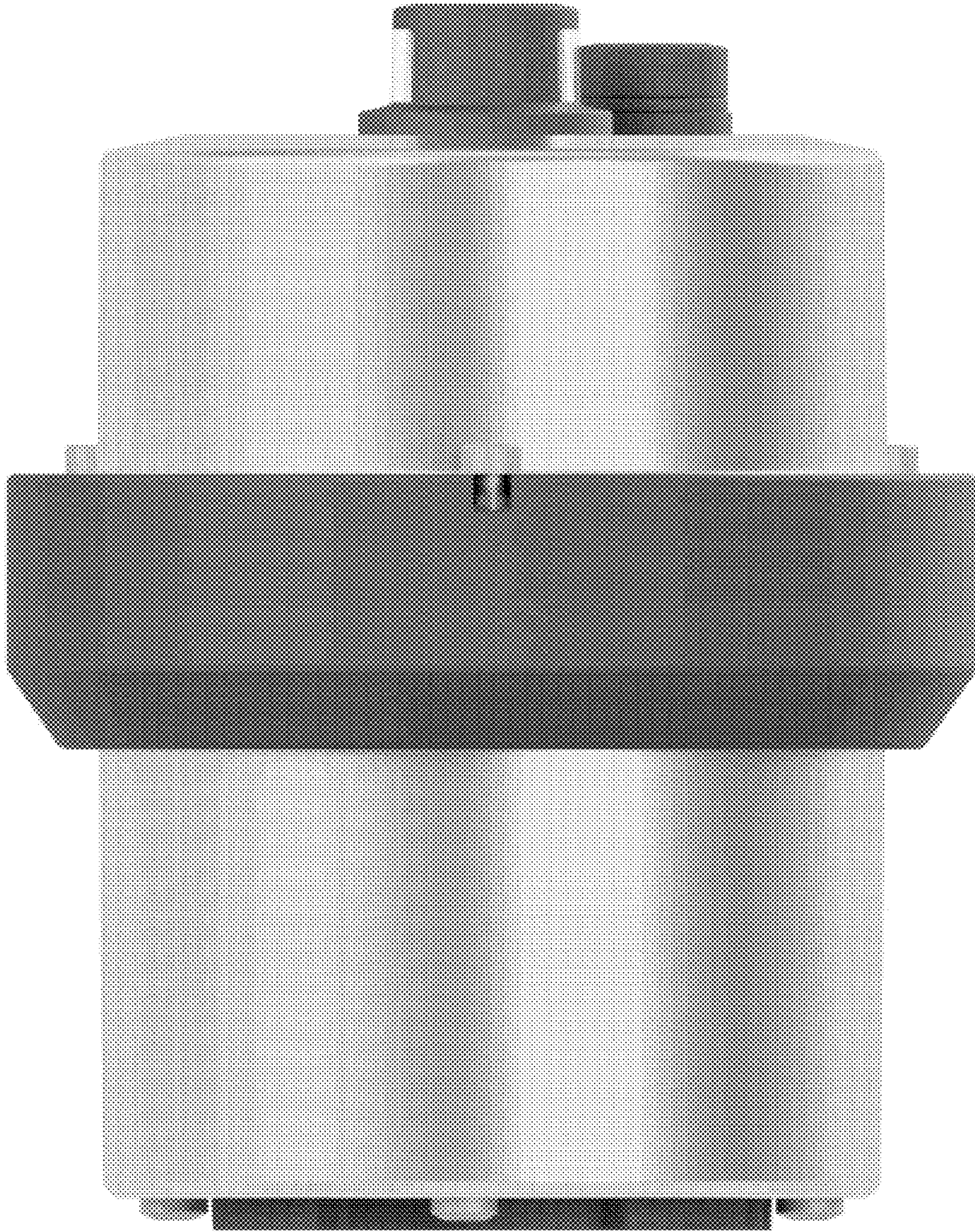


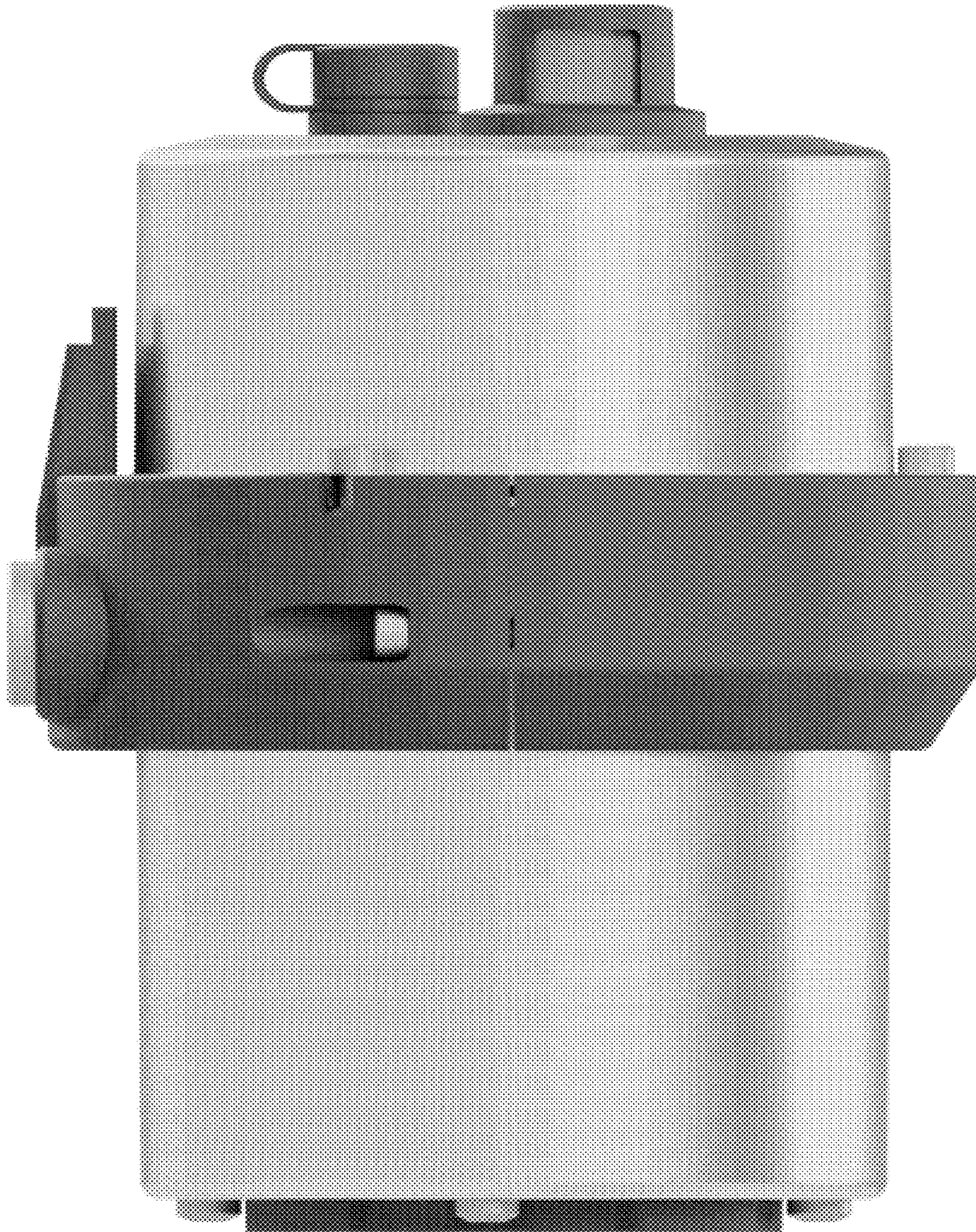
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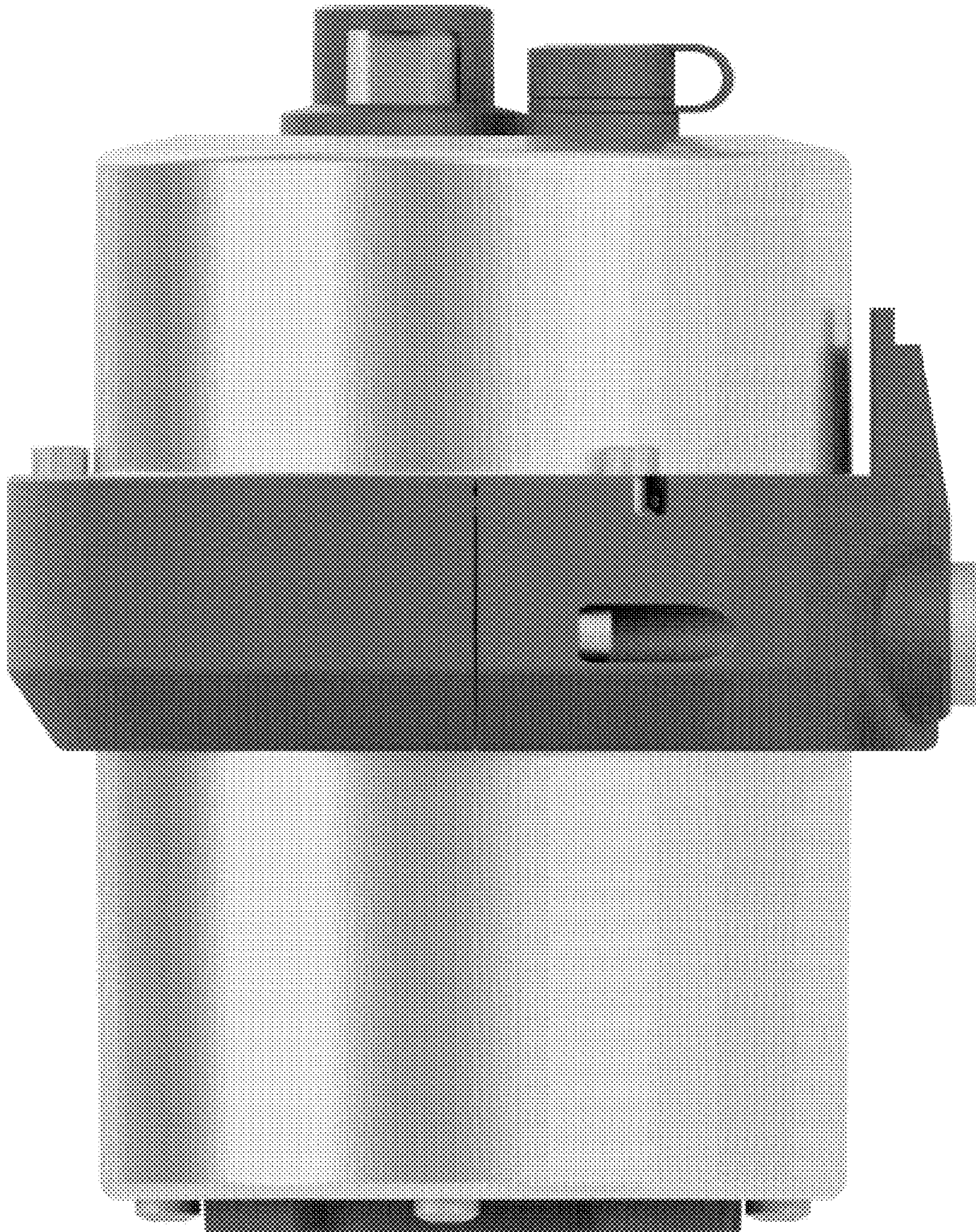










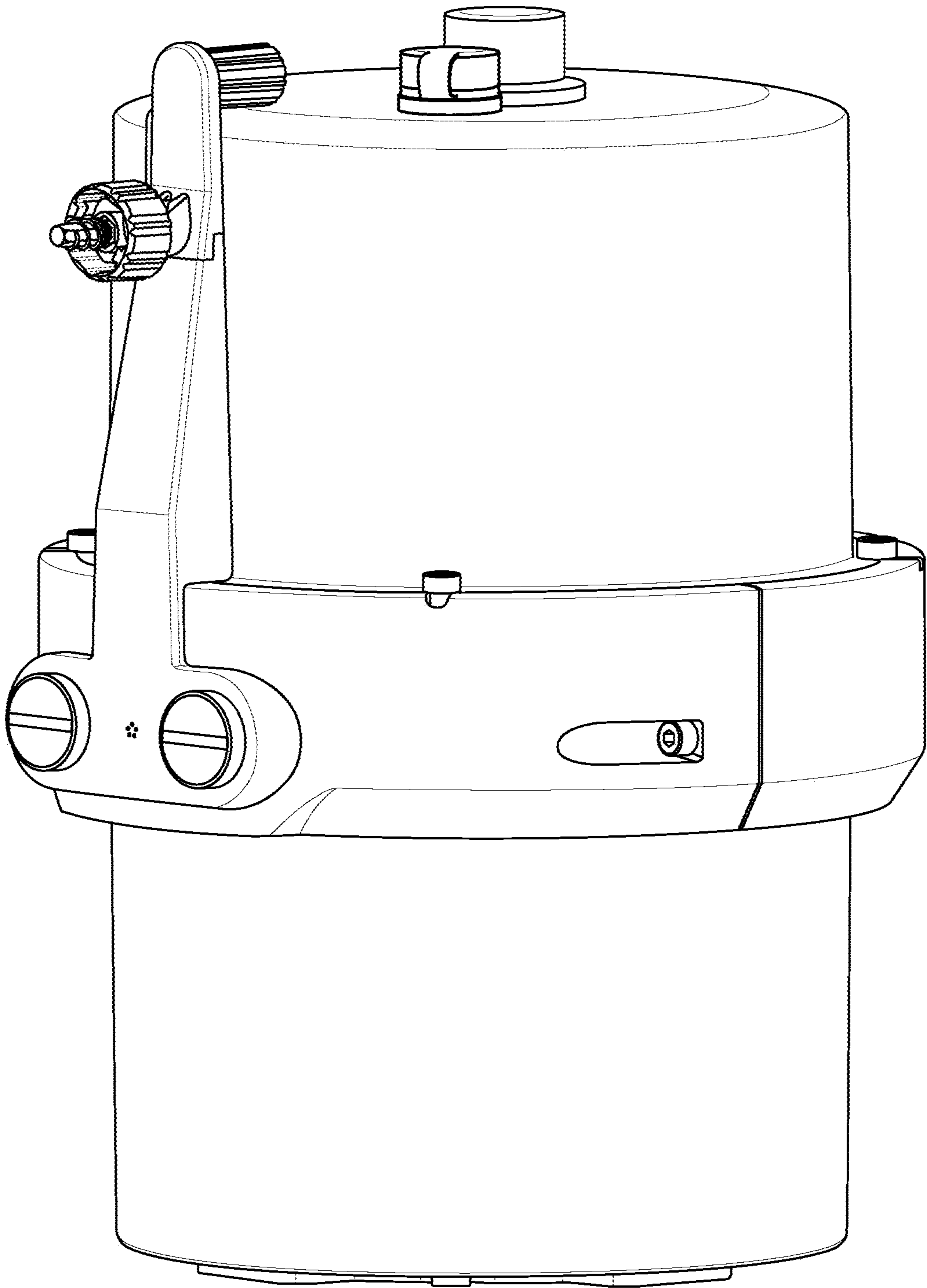




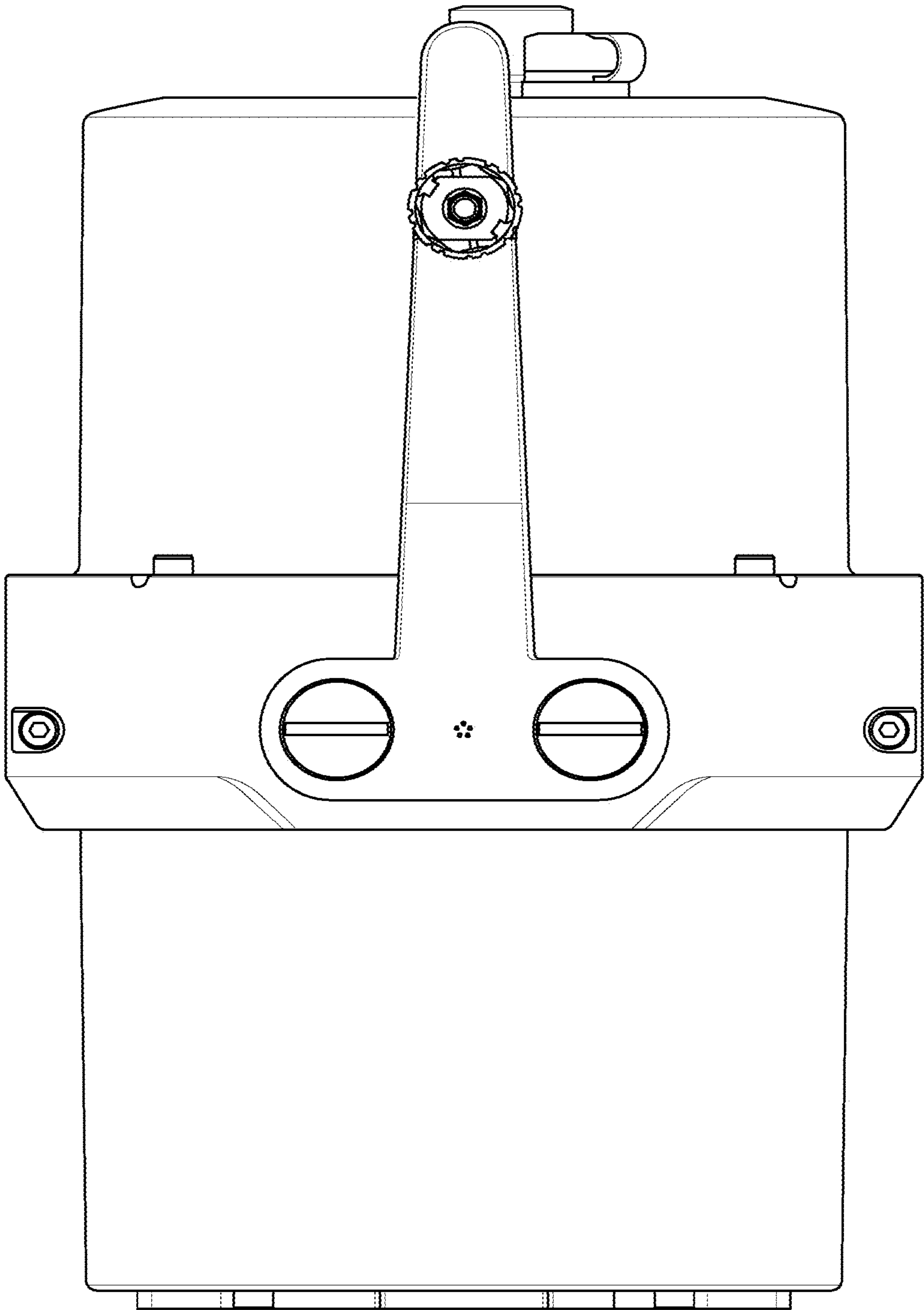
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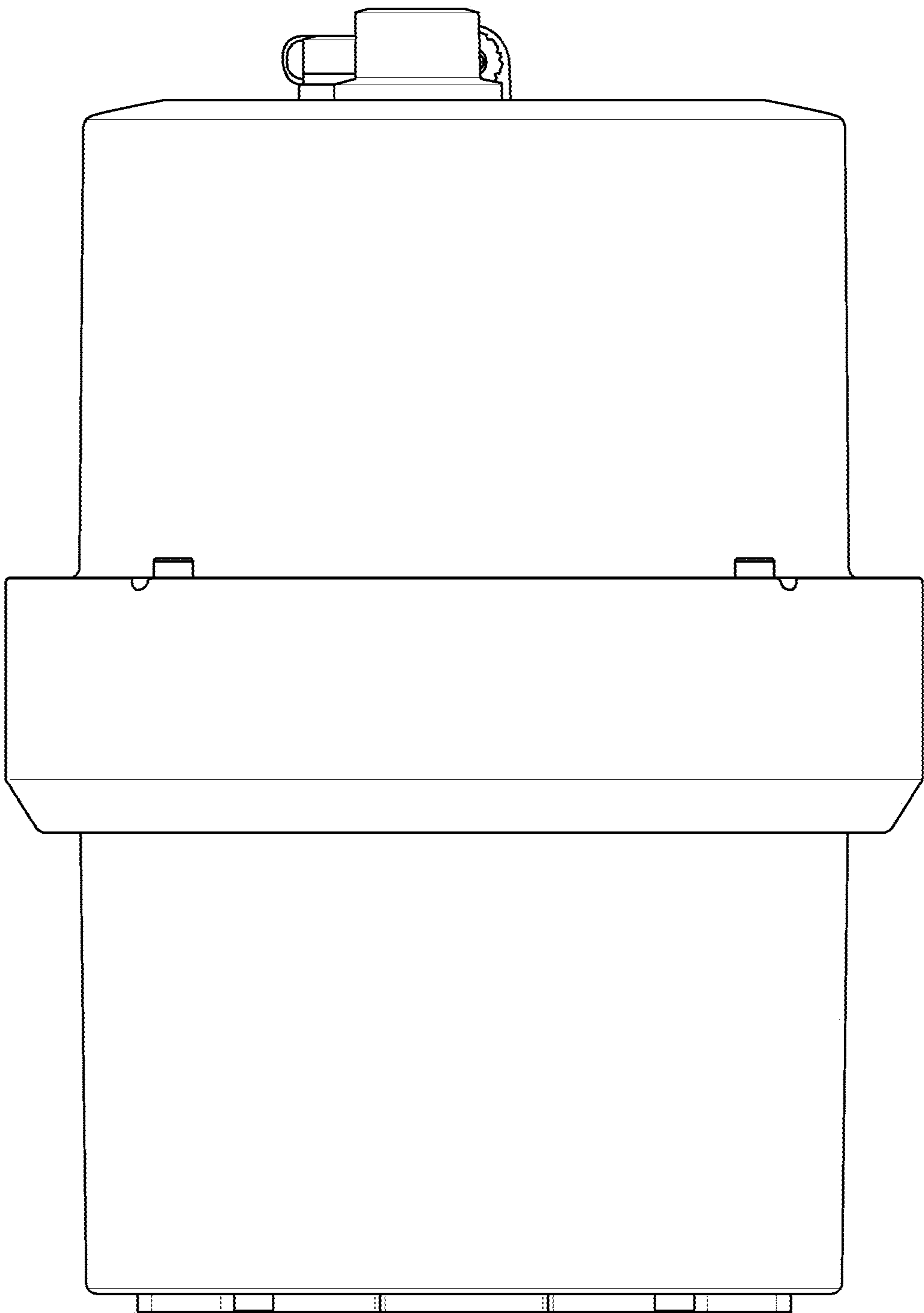


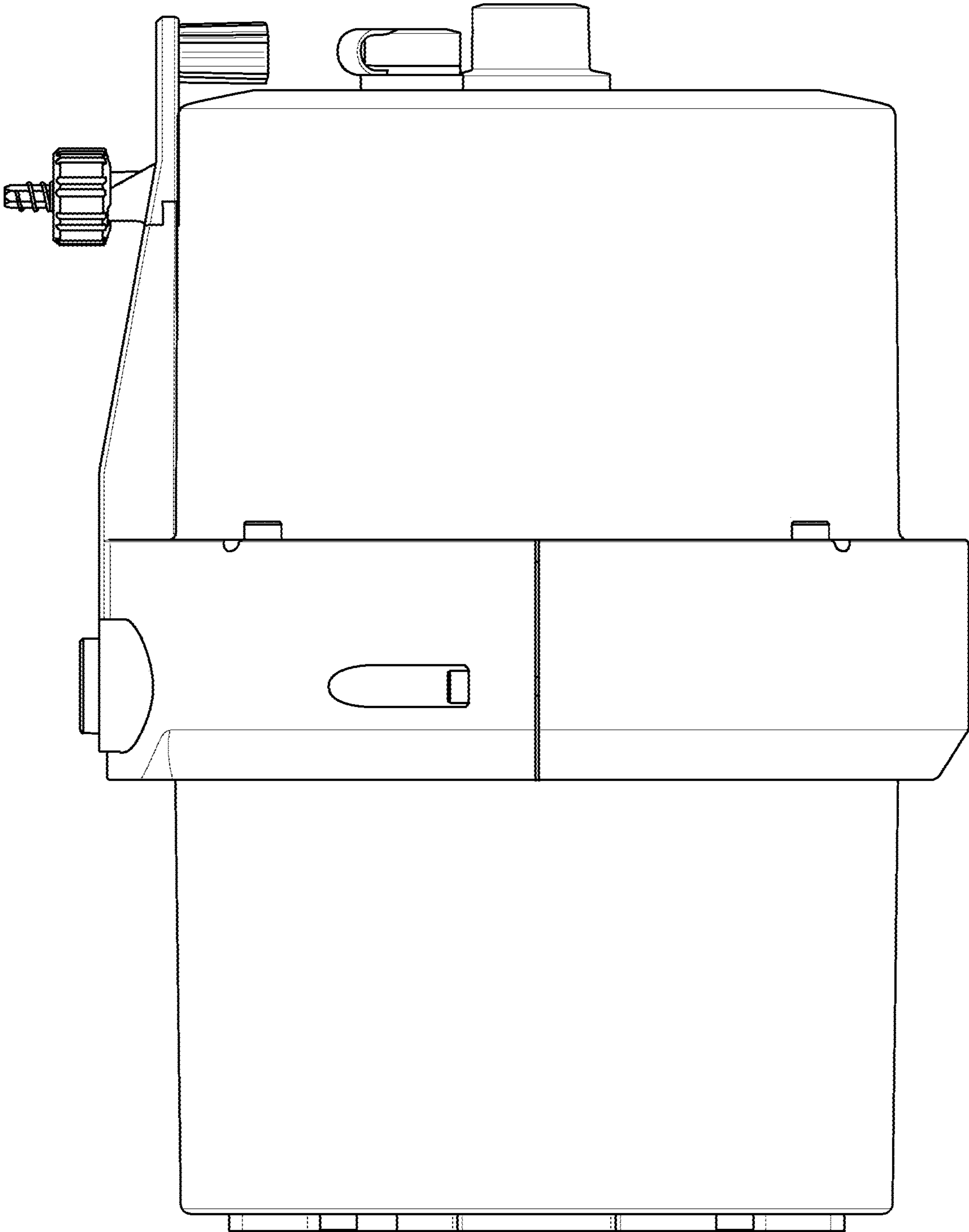
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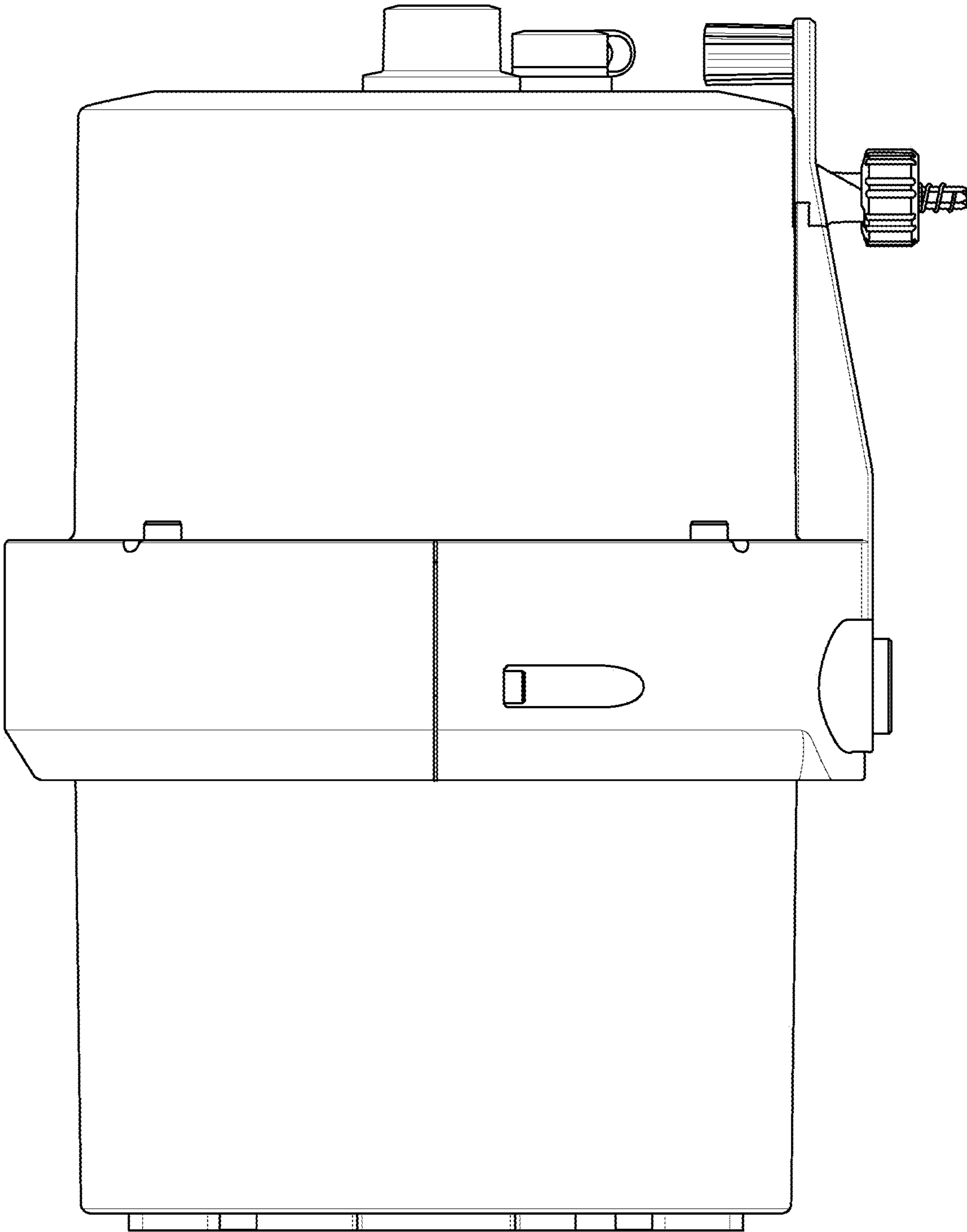


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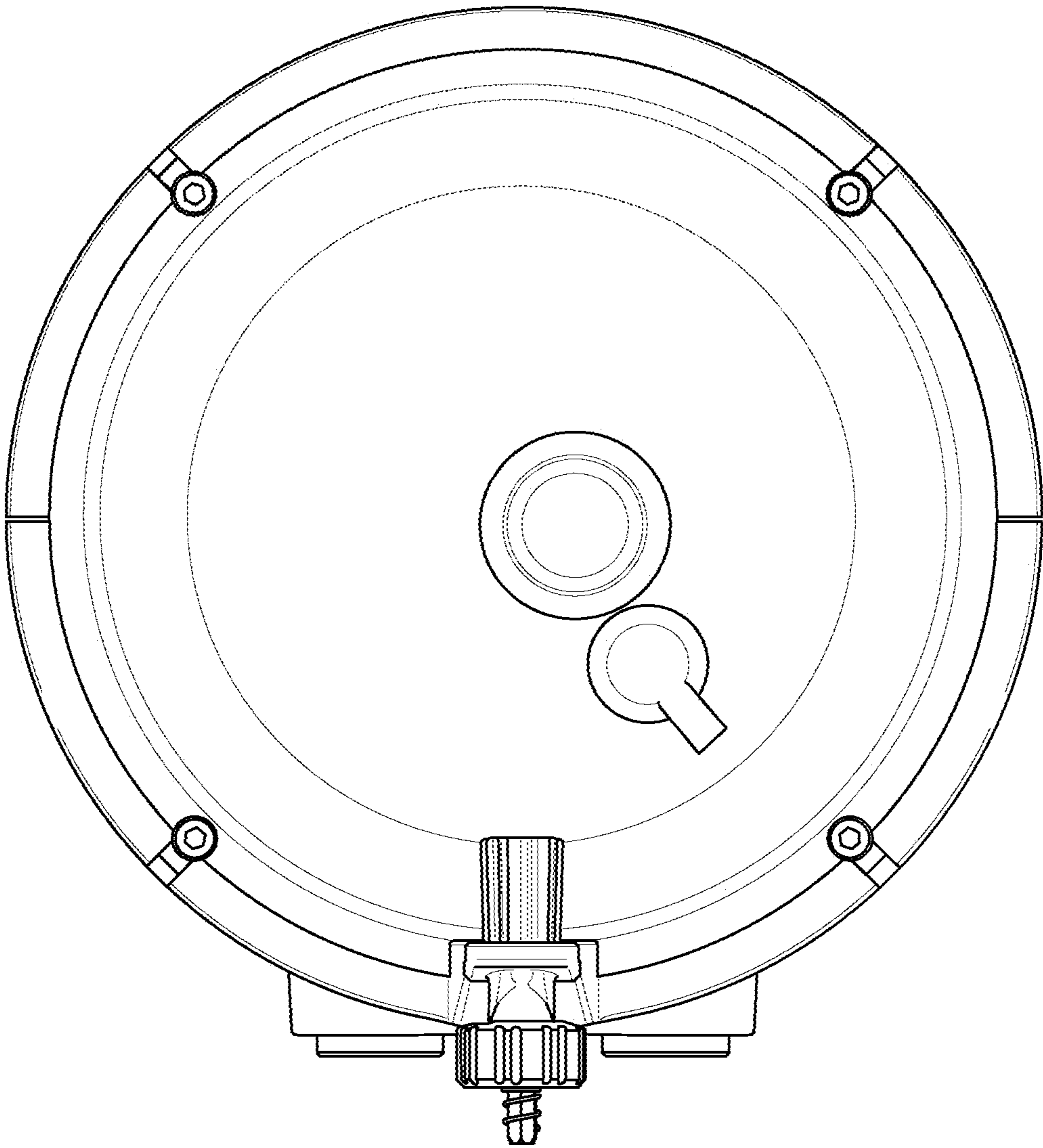




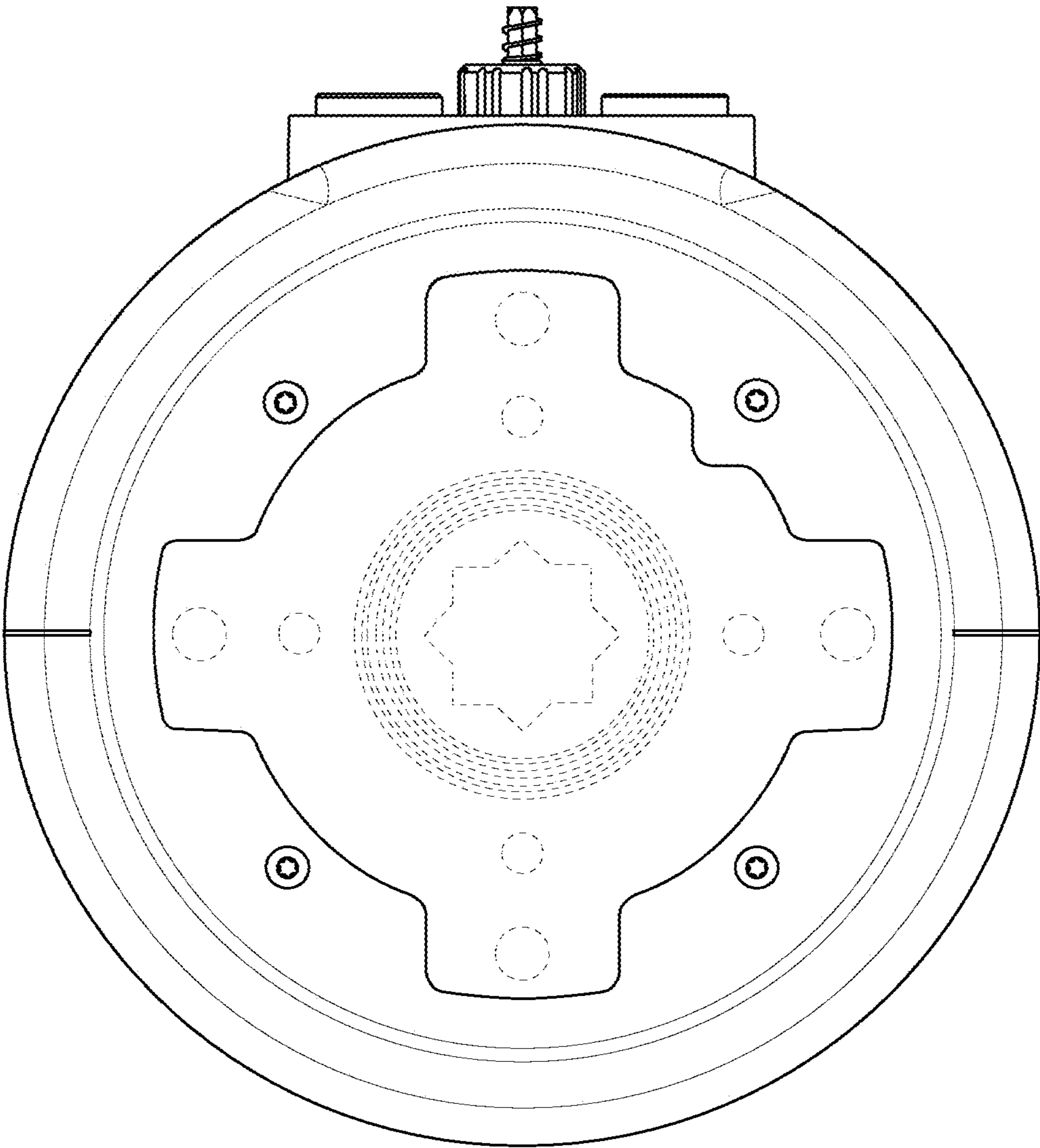




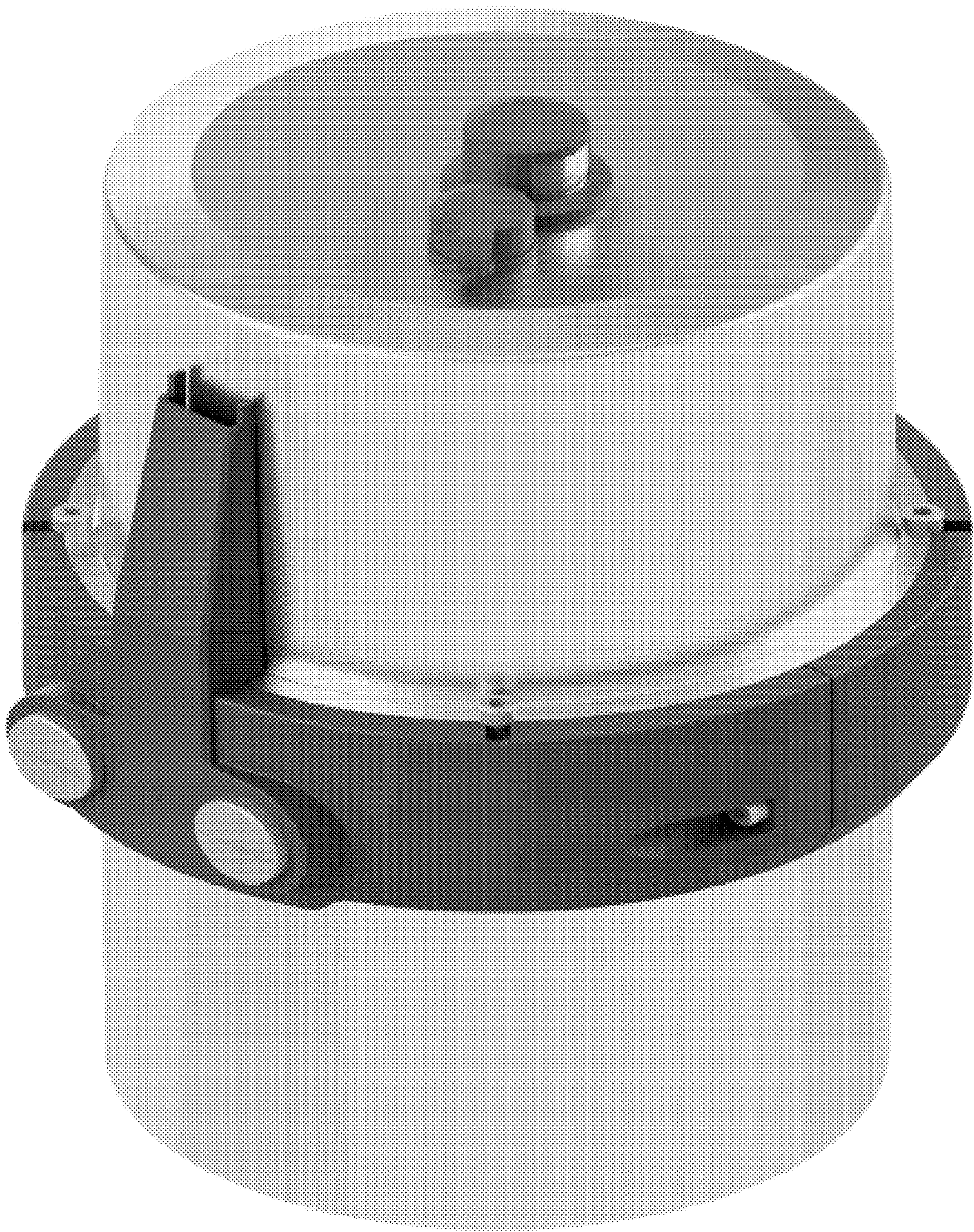
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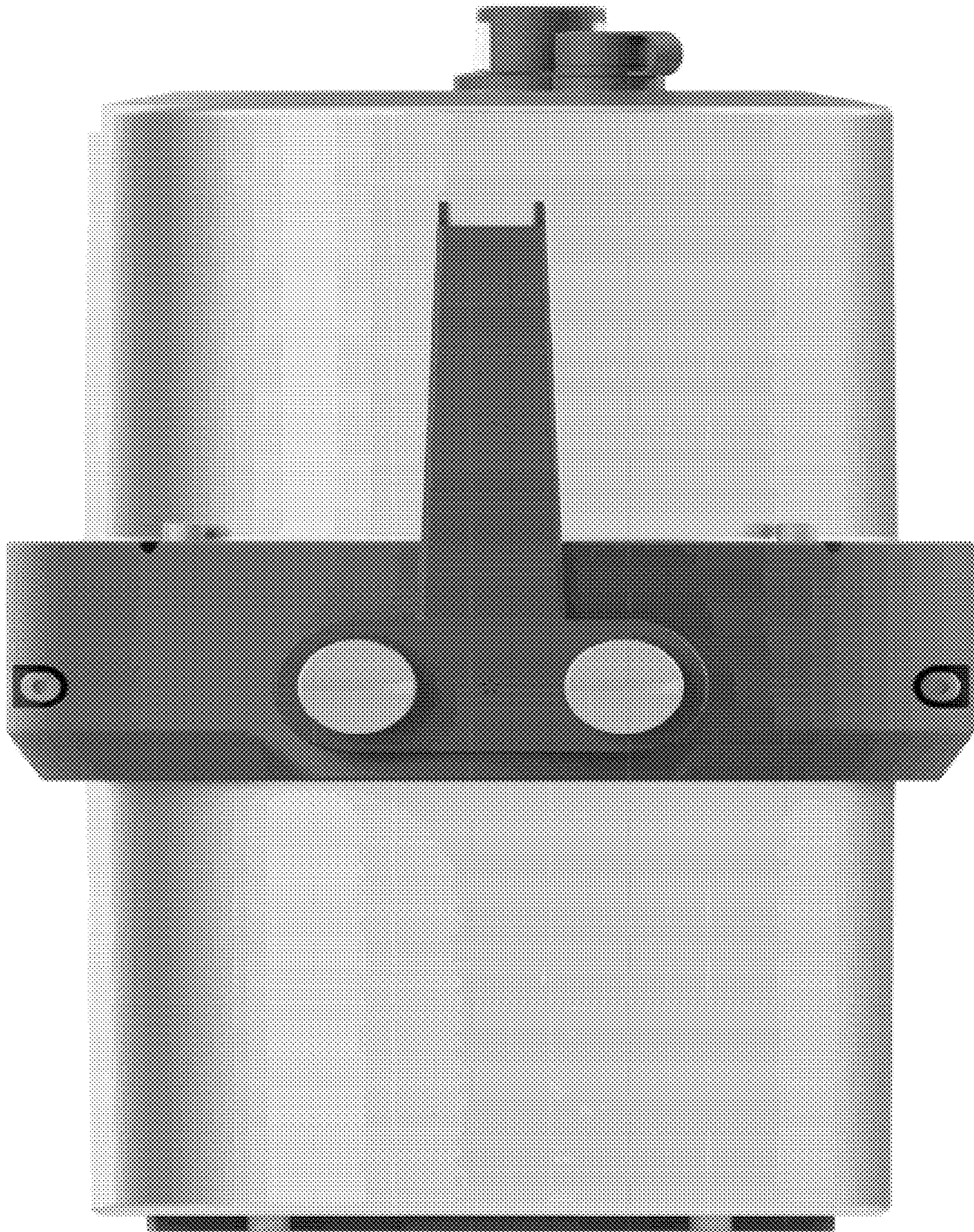


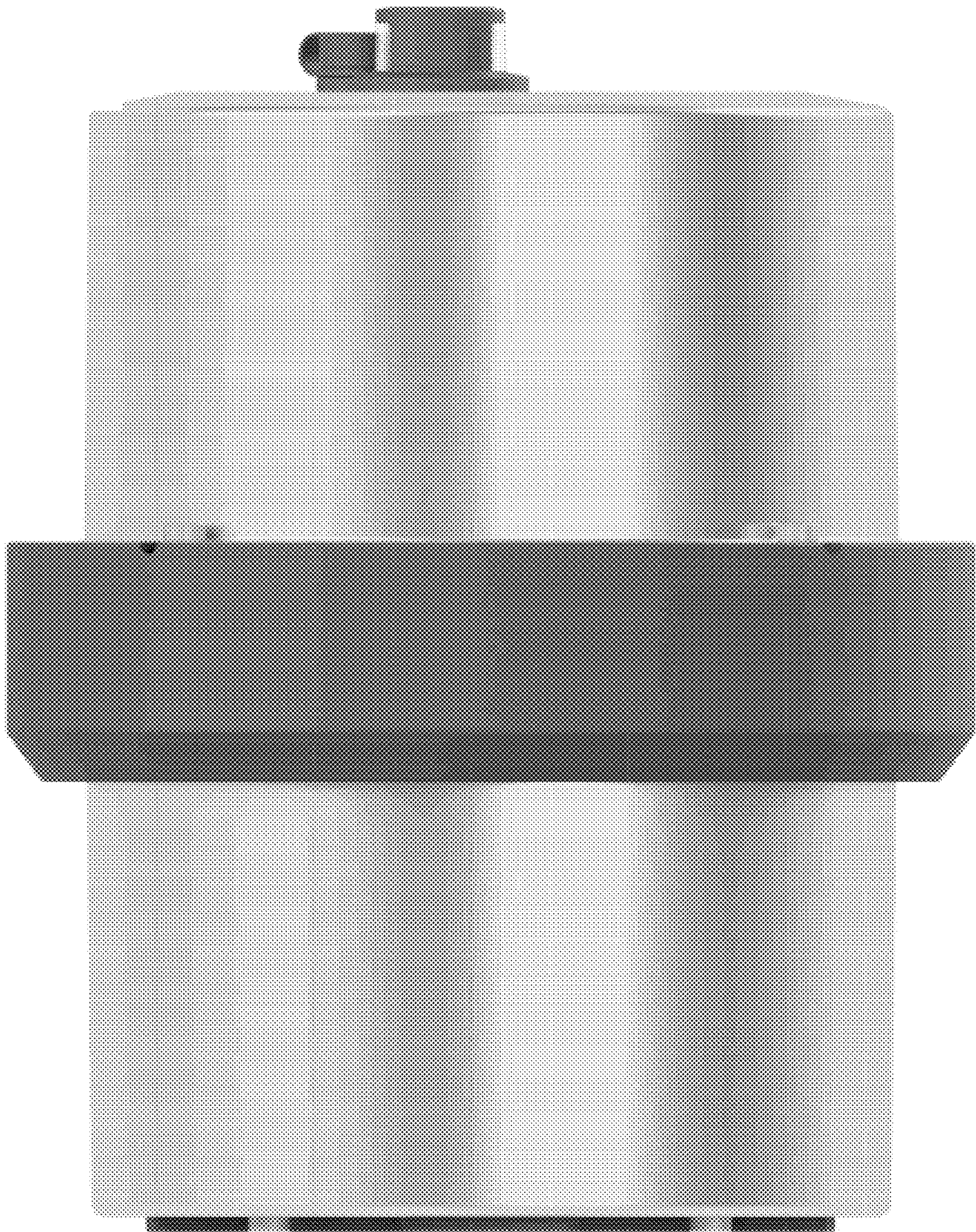
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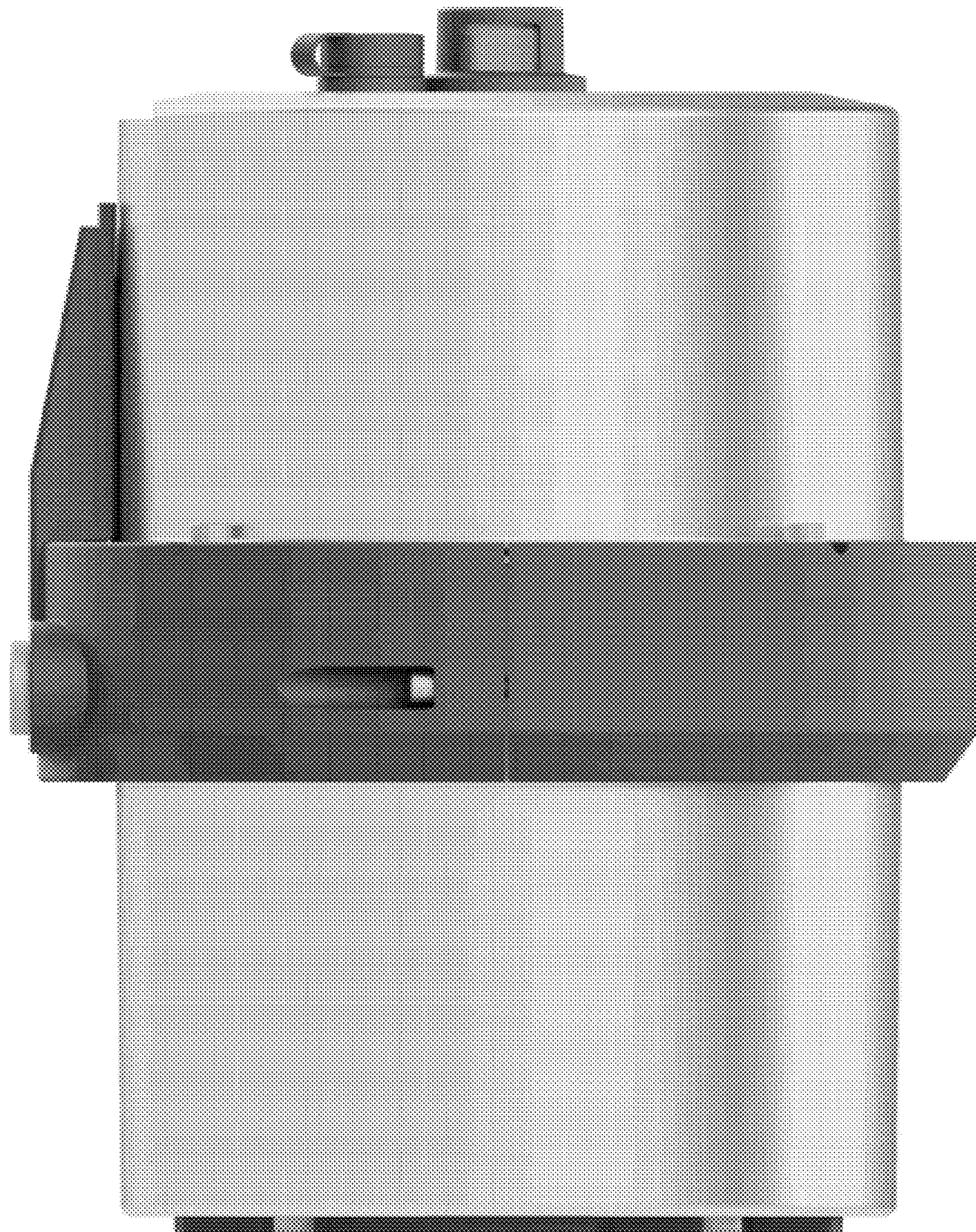


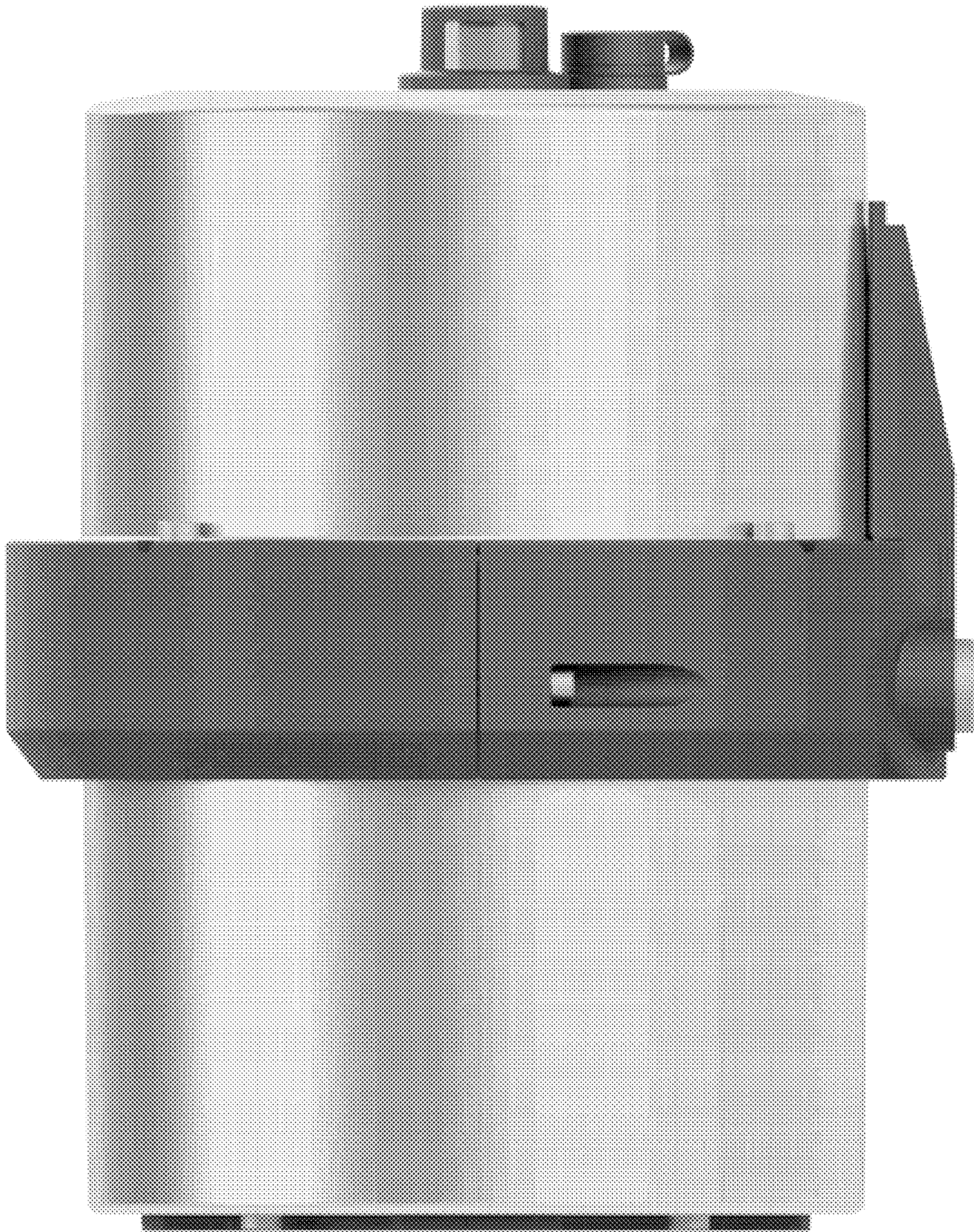
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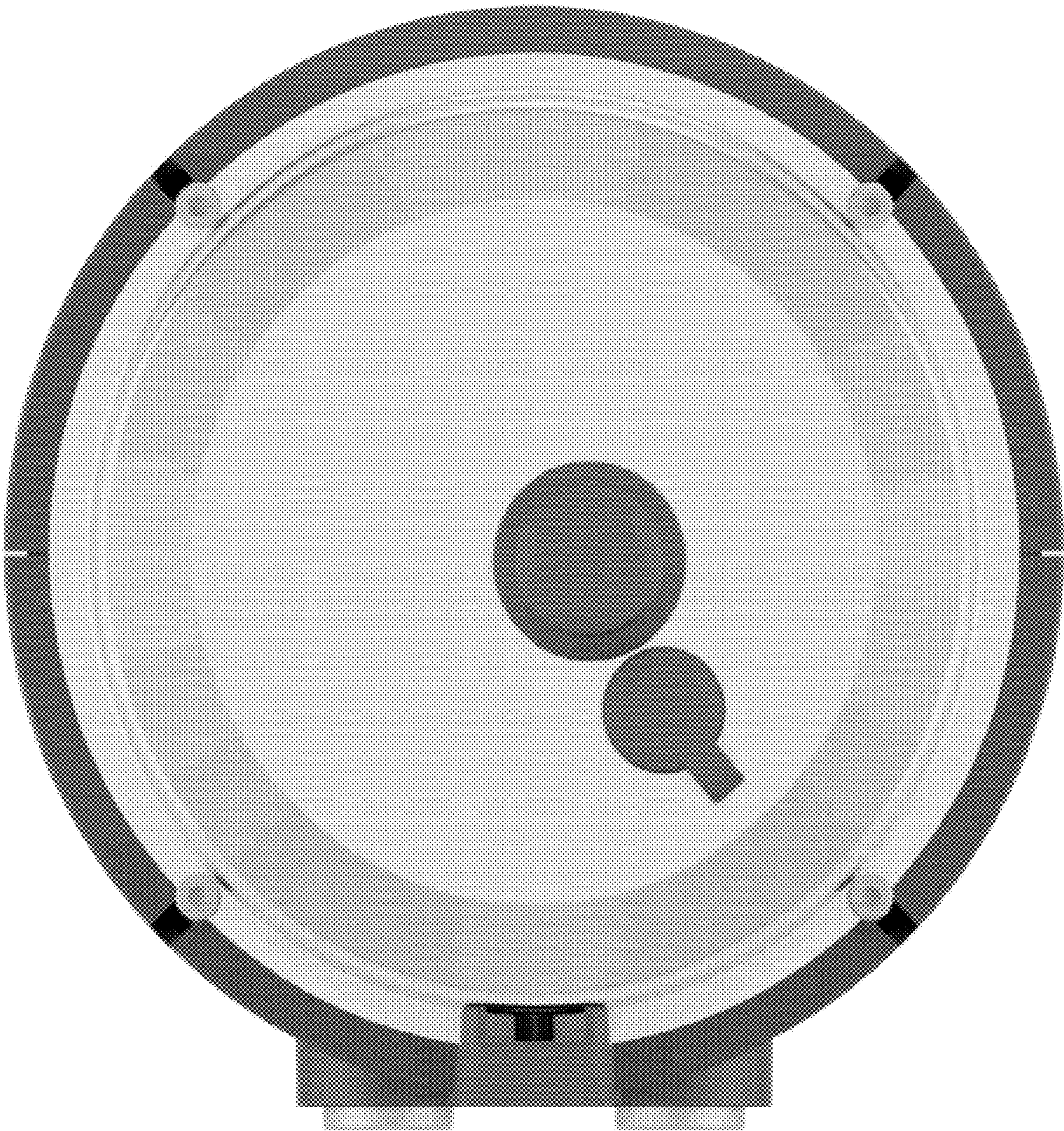








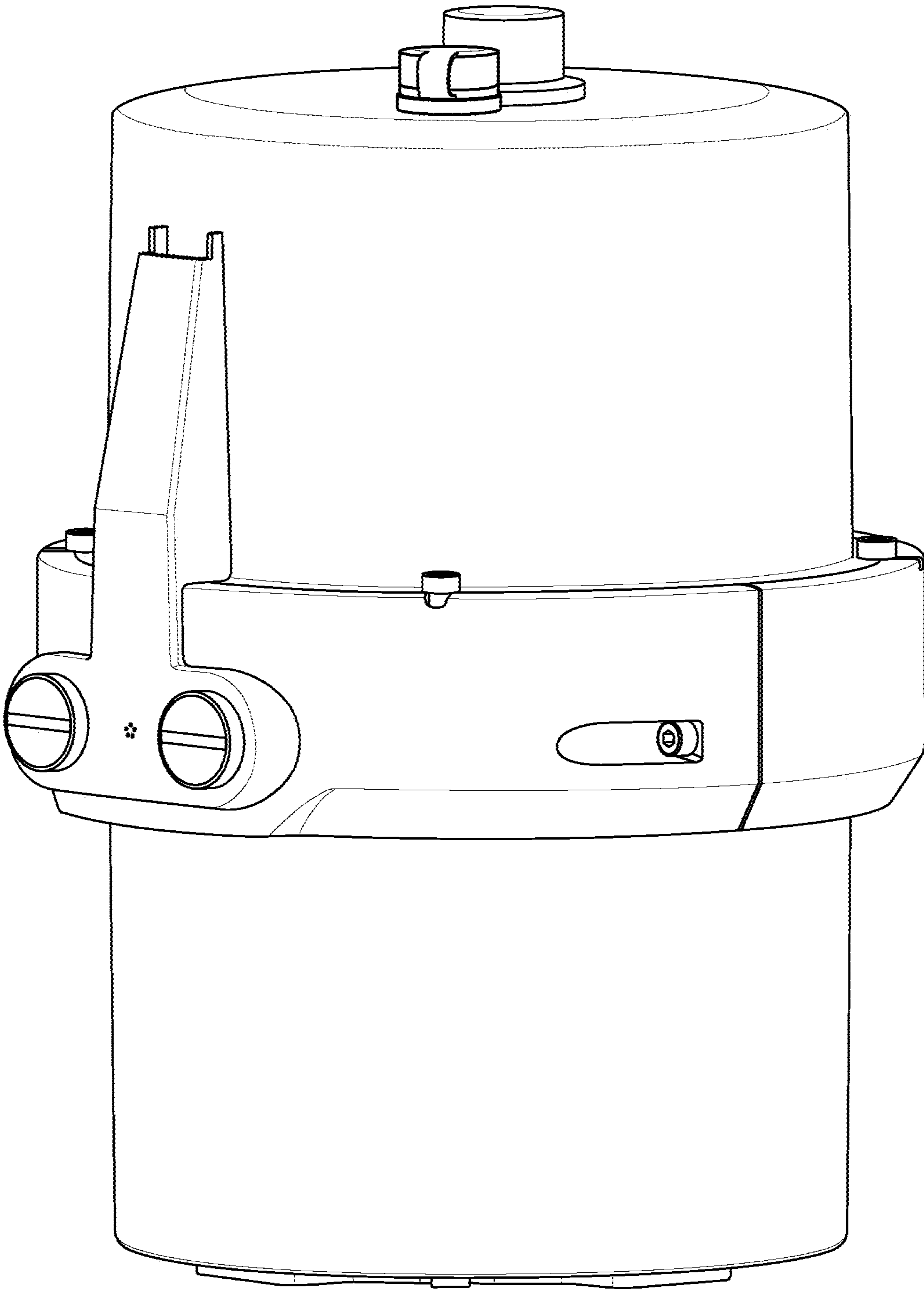




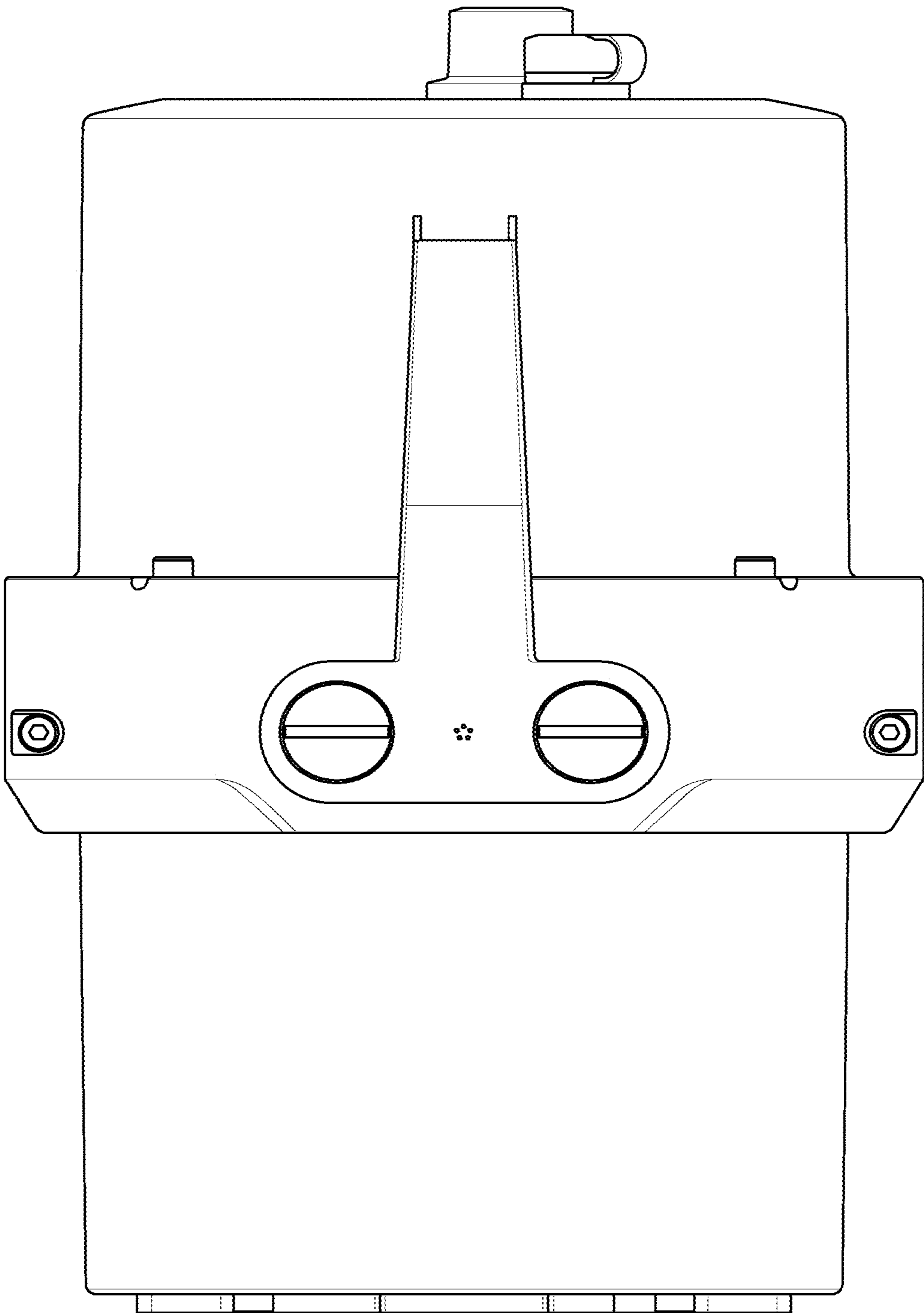
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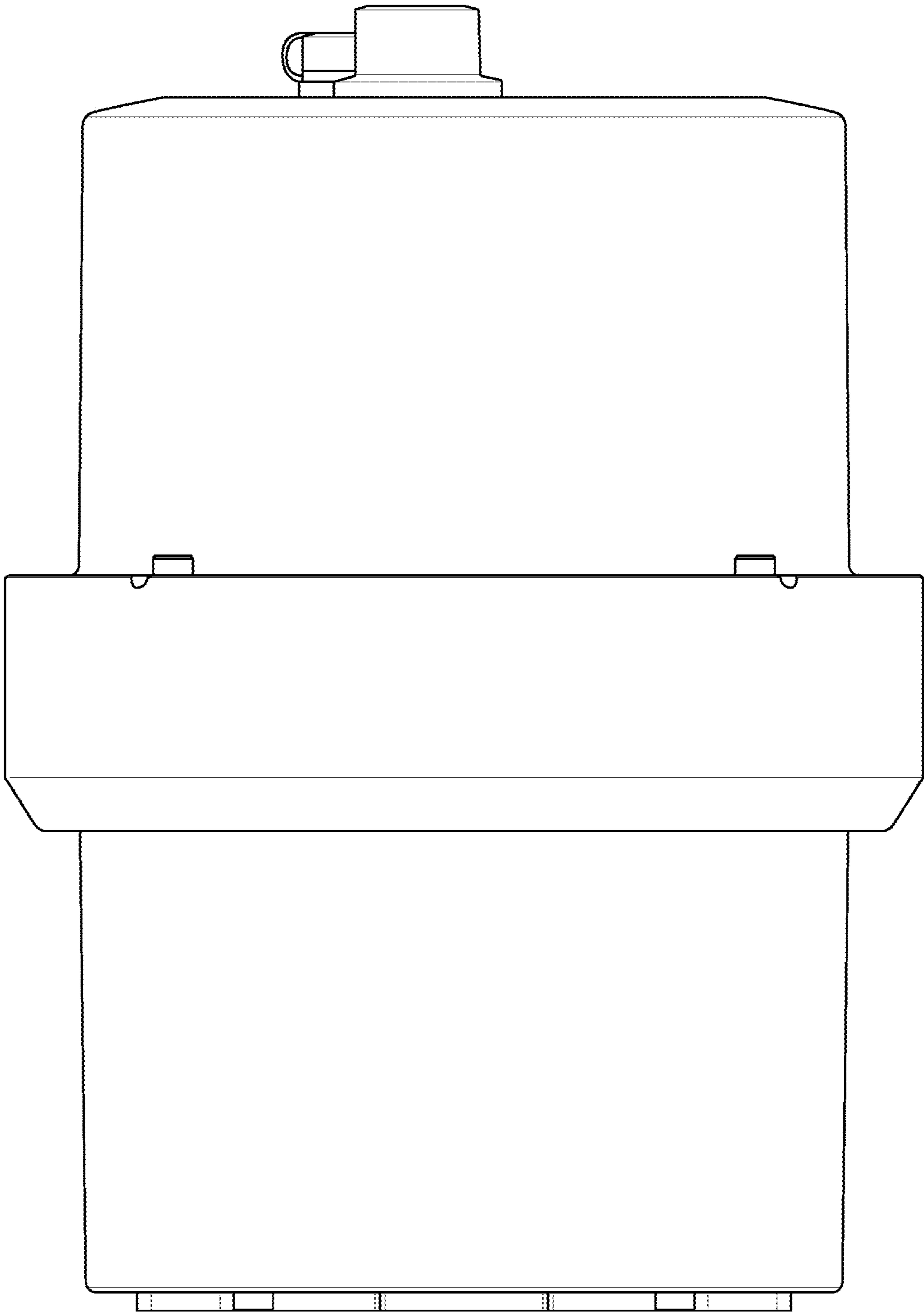


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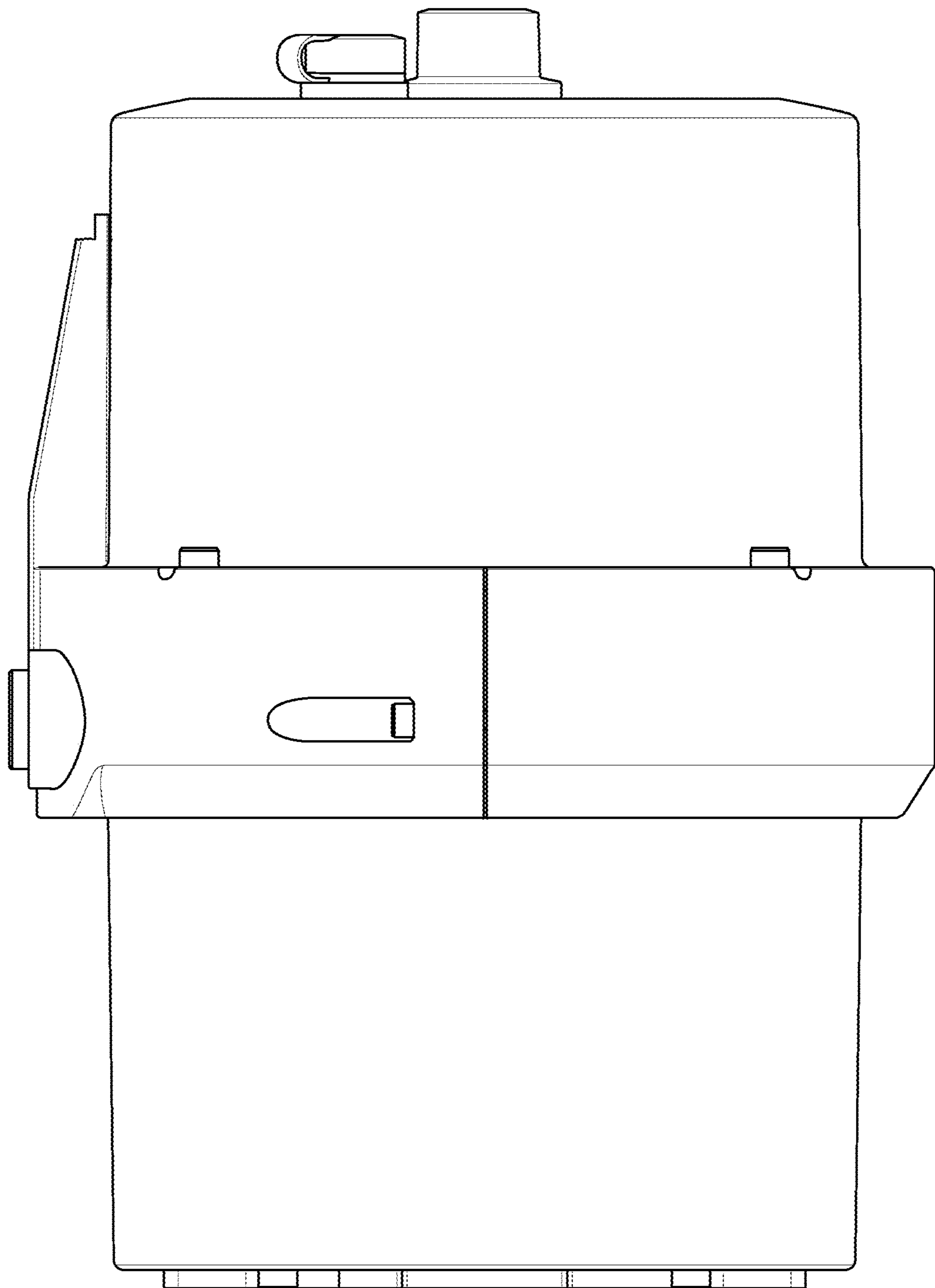


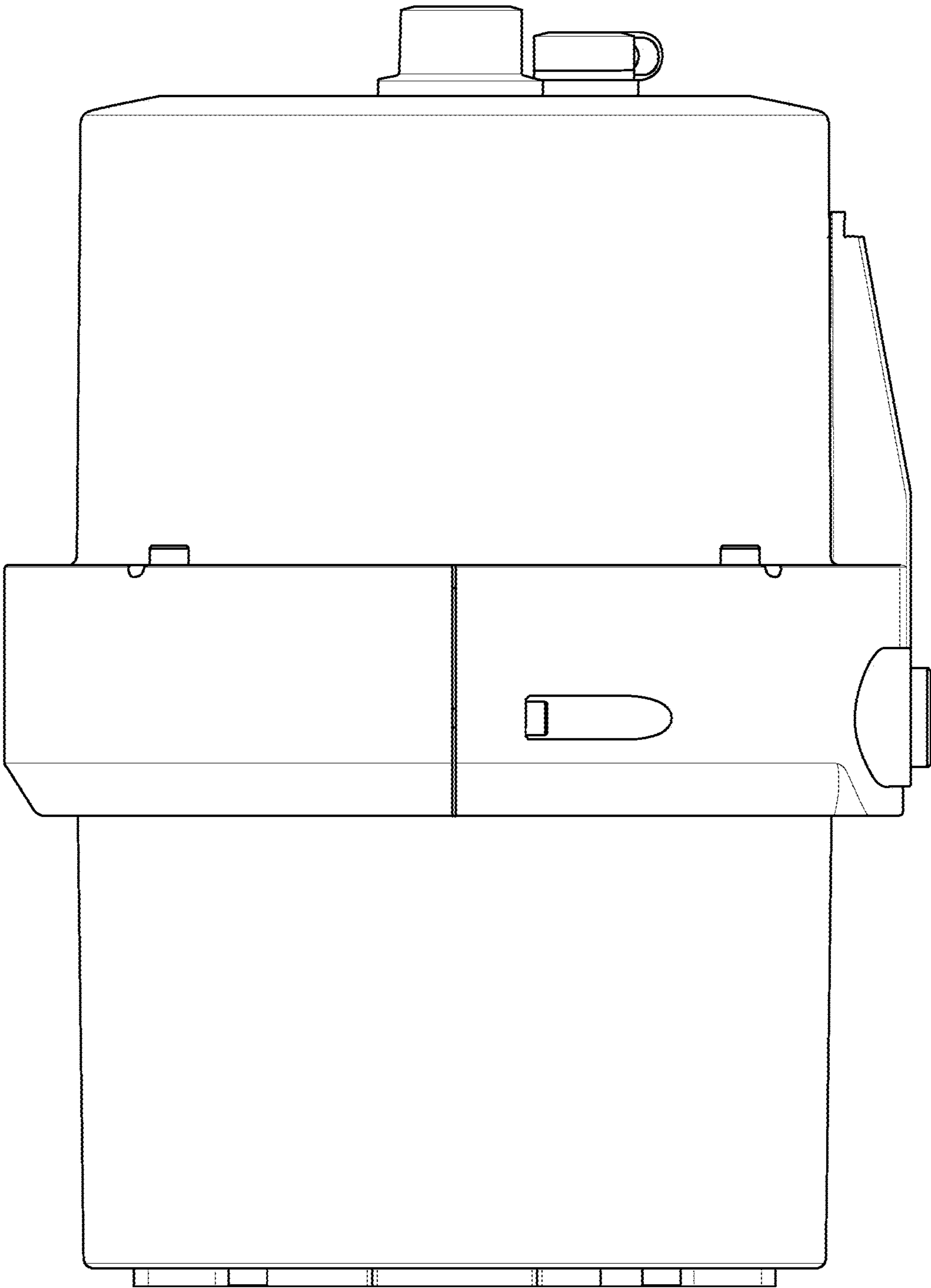
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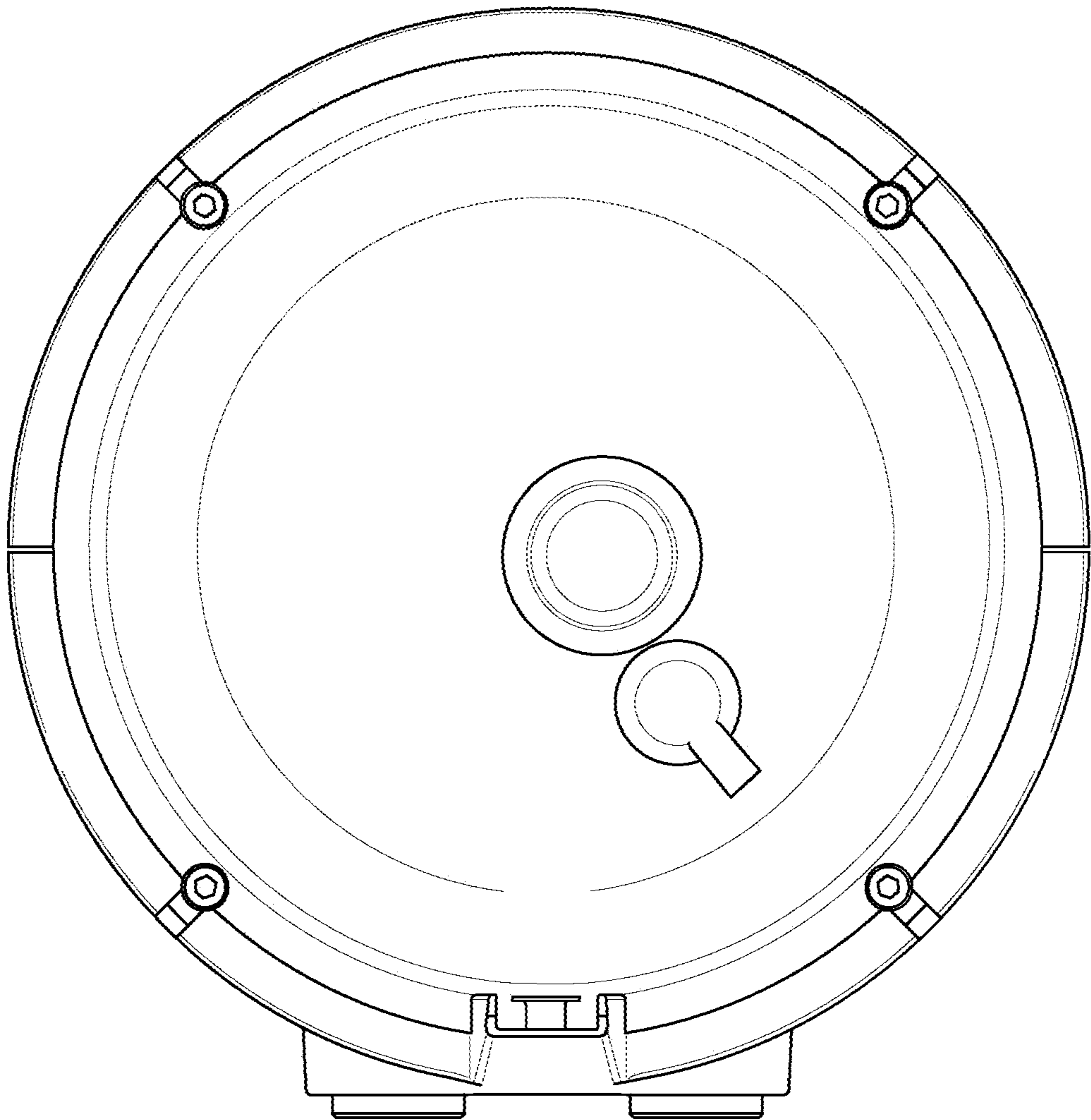




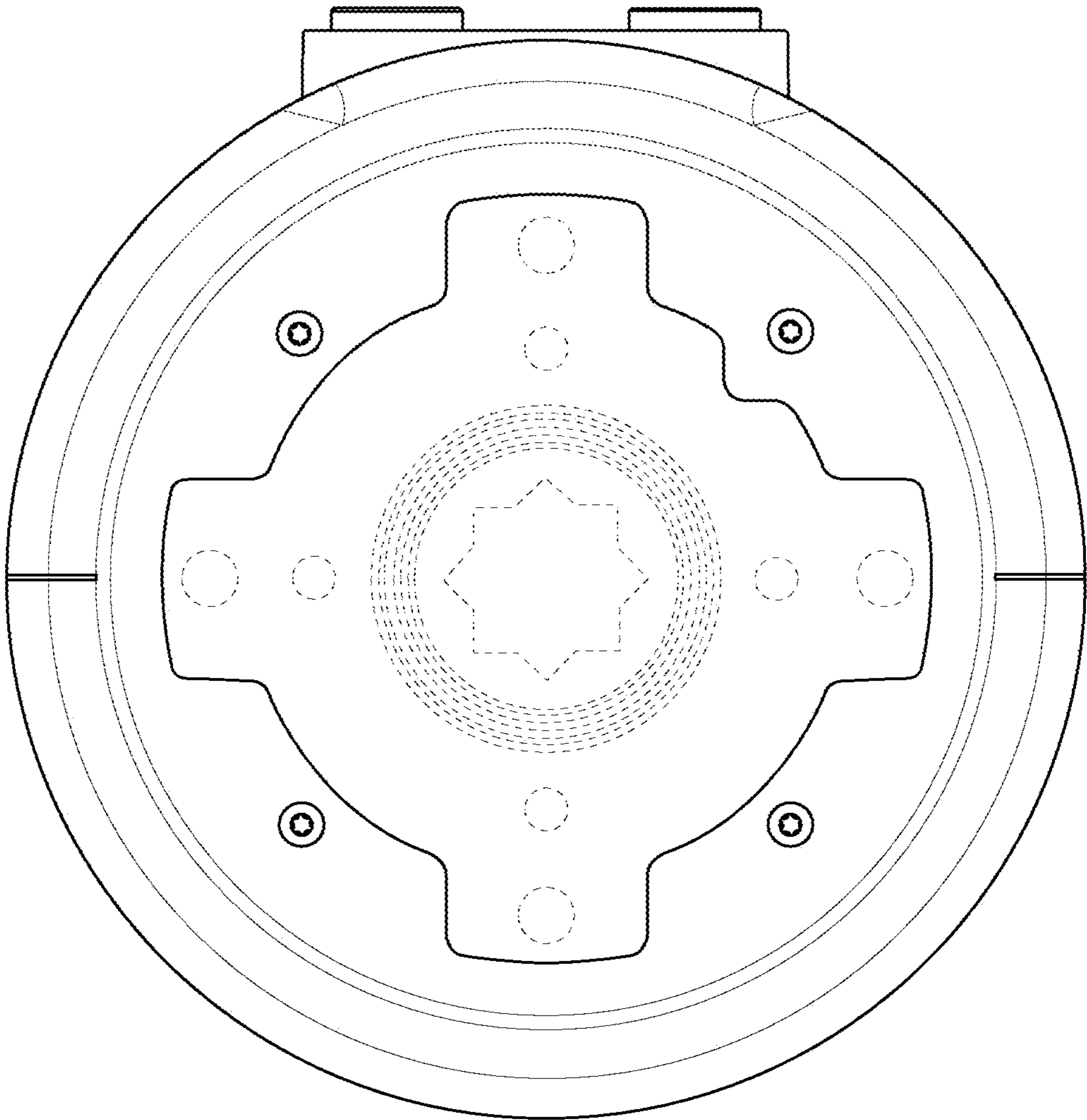
6.3







6.6



6.7