



US00D753268S

(12) **United States Design Patent**
Nishimura

(10) **Patent No.:** **US D753,268 S**
(45) **Date of Patent:** **** Apr. 5, 2016**

(54) **FLOW-RATE CONTROL VALVE**

DESCRIPTION

(71) Applicant: **SMC CORPORATION**, Tokyo (JP)
(72) Inventor: **Akiho Nishimura**, Moriya (JP)
(73) Assignee: **SMC CORPORATION**, Tokyo (JP)
(**) Term: **14 Years**

(21) Appl. No.: **29/515,260**

(22) Filed: **Jan. 21, 2015**

(30) **Foreign Application Priority Data**

Jul. 30, 2014 (CN) 2014 3 0262693

(51) **LOC (10) Cl.** **23-01**

(52) **U.S. Cl.**
USPC **D23/233**

(58) **Field of Classification Search**
USPC D23/233-250; 137/498, 545, 547, 549,
137/377; 251/129.15, 129.01, 250
CPC F16K 47/08; F16K 15/188; F16K 31/12;
F16K 5/10; F16K 11/0716
See application file for complete search history.

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* cited by examiner

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Primary Examiner — Cynthia Ramirez

Assistant Examiner — Gino Colan

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(57) **CLAIM**

The ornamental design for a flow-rate control valve, as shown.

FIG. 1 is a front, top and left side perspective view of a flow-rate control valve showing a first embodiment of my design;
FIG. 2 is a front view thereof;
FIG. 3 is a rear view thereof;
FIG. 4 is a top plan view thereof;
FIG. 5 is a bottom plan view thereof;
FIG. 6 is a left side view thereof;
FIG. 7 is a right side view thereof;
FIG. 8 is a front, top and left side perspective view of a flow-rate control valve showing a second embodiment of my design;
FIG. 9 is a front view thereof;
FIG. 10 is a rear view thereof;
FIG. 11 is a top plan view thereof;
FIG. 12 is a bottom plan view thereof;
FIG. 13 is a left side view thereof;
FIG. 14 is a right side view thereof;
FIG. 15 is a front, top and left side perspective view of a flow-rate control valve showing a third embodiment of my design;
FIG. 16 is a front view thereof;
FIG. 17 is a rear view thereof;
FIG. 18 is a top plan view thereof;
FIG. 19 is a bottom plan view thereof;
FIG. 20 is a left side view thereof;
FIG. 21 is a right side view thereof;
FIG. 22 is a front, top and left side perspective view of a flow-rate control valve showing a fourth embodiment of my design;
FIG. 23 is a front view thereof;
FIG. 24 is a rear view thereof;
FIG. 25 is a top plan view thereof;
FIG. 26 is a bottom plan view thereof;
FIG. 27 is a left side view thereof;
FIG. 28 is a right side view thereof;
FIG. 29 is a front, top and left side perspective view of a flow-rate control valve showing a fifth embodiment of my design;
FIG. 30 is a front view thereof;
FIG. 31 is a rear view thereof;

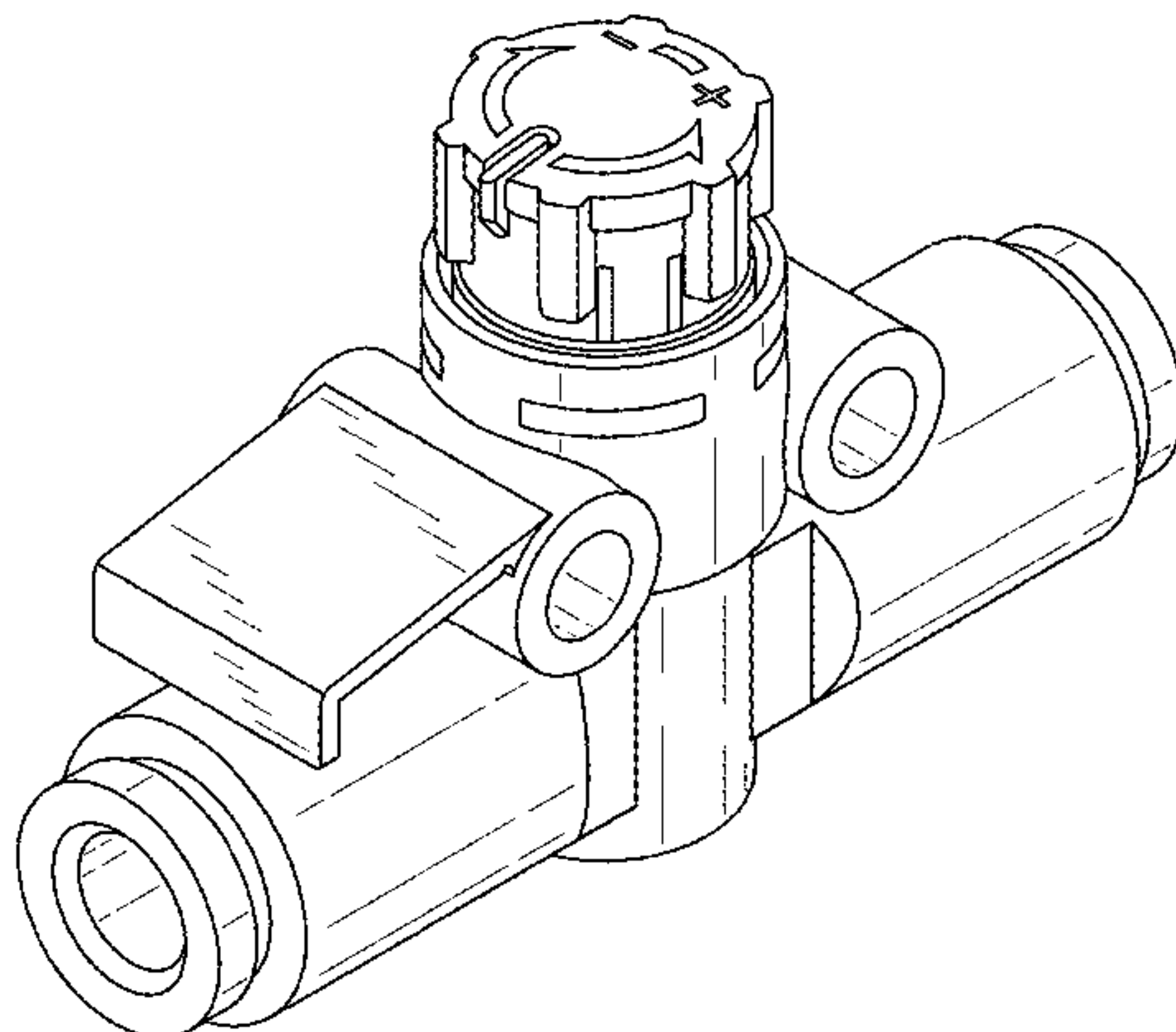


FIG. 32 is a top plan view thereof;
FIG. 33 is a bottom plan view thereof;
FIG. 34 is a left side view thereof;
FIG. 35 is a right side view thereof;
FIG. 36 is a front, top and left side perspective view of a flow-rate control valve showing a sixth embodiment of my design;
FIG. 37 is a front view thereof;
FIG. 38 is a rear view thereof;
FIG. 39 is a top plan view thereof;
FIG. 40 is a bottom plan view thereof;
FIG. 41 is a left side view thereof;

FIG. 42 is a right side view thereof;
FIG. 43 is a front, top and left side perspective view of a flow-rate control valve showing a seventh embodiment of my design;
FIG. 44 is a front view thereof;
FIG. 45 is a rear view thereof;
FIG. 46 is a top plan view thereof;
FIG. 47 is a bottom plan view thereof;
FIG. 48 is a left side view thereof; and,
FIG. 49 is a right side view thereof.

1 Claim, 49 Drawing Sheets

FIG. 1

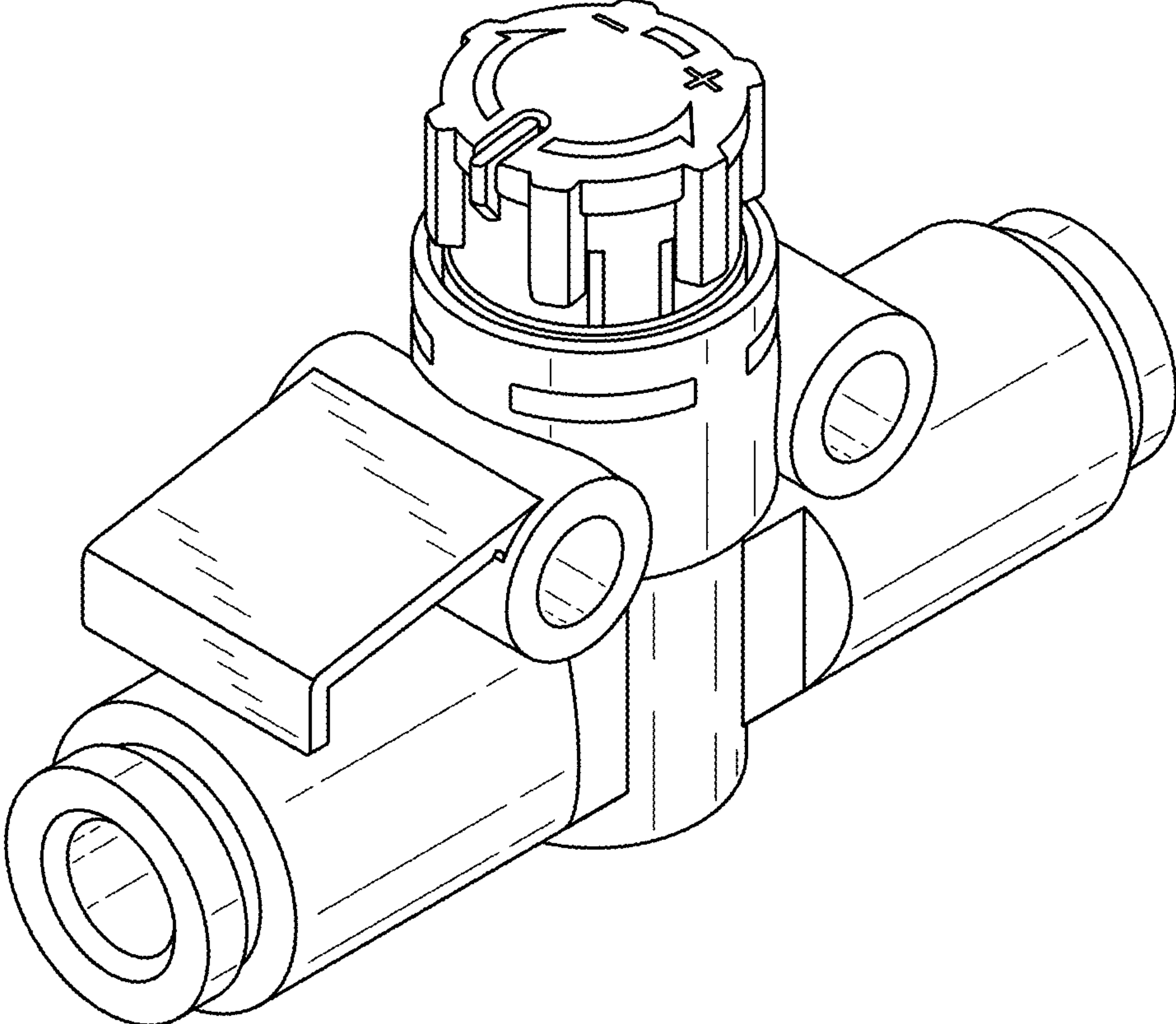


FIG. 2

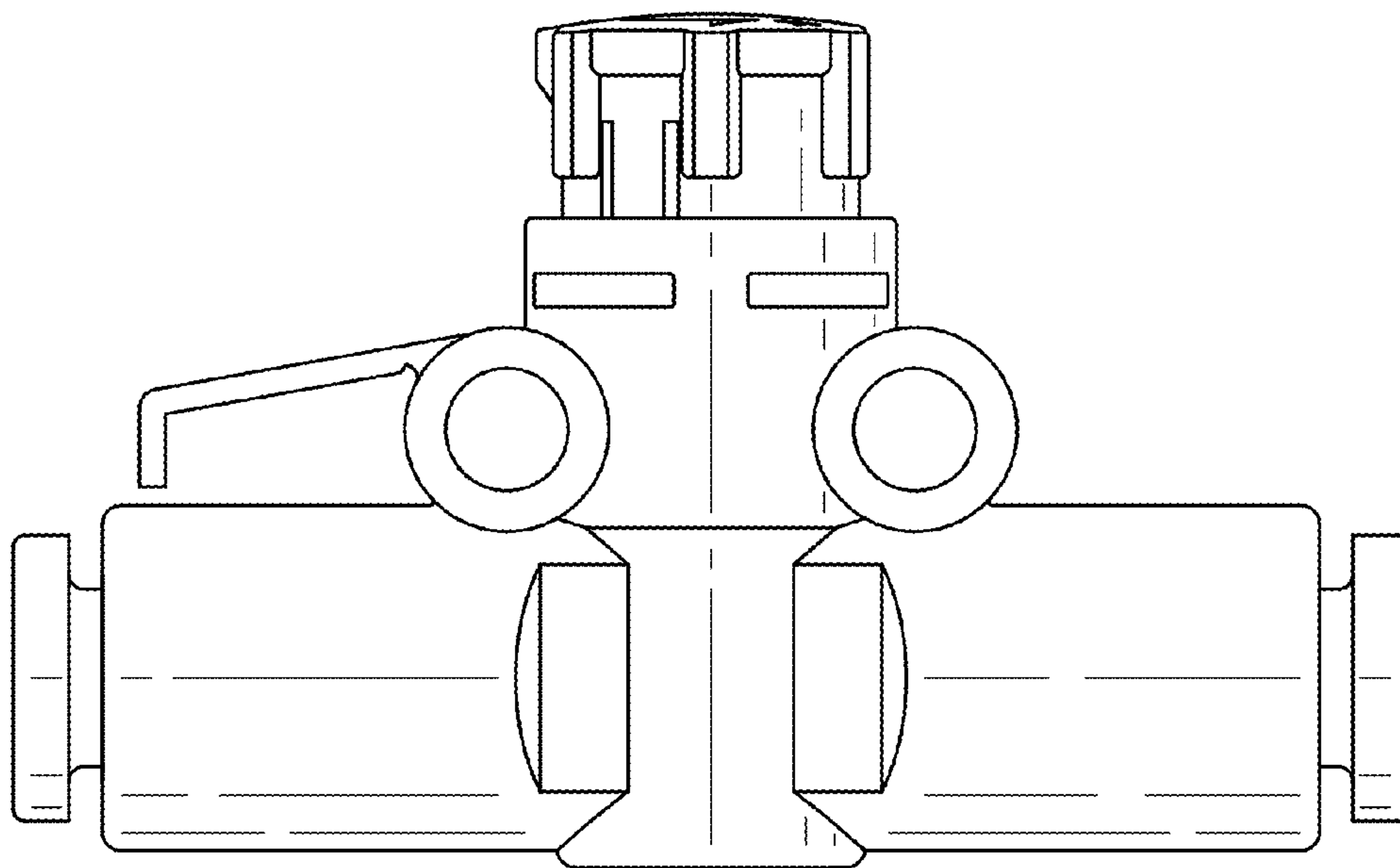


FIG. 3

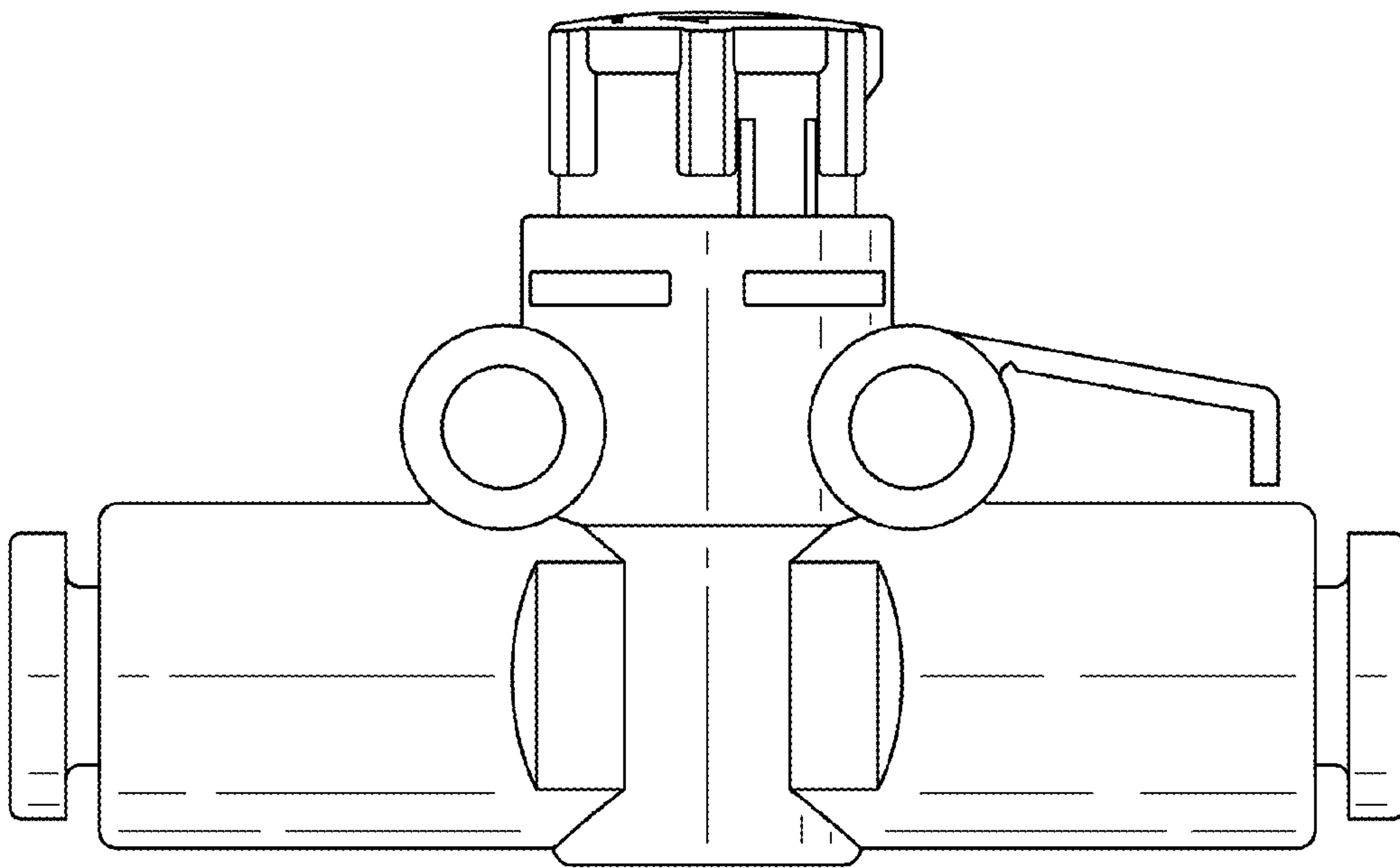


FIG. 4

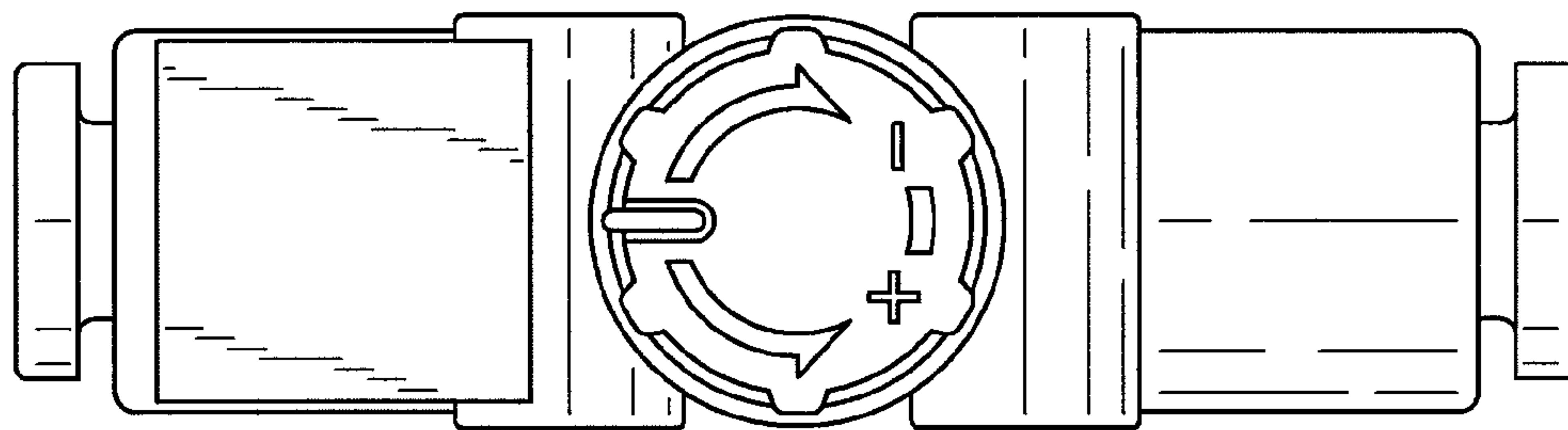


FIG. 5

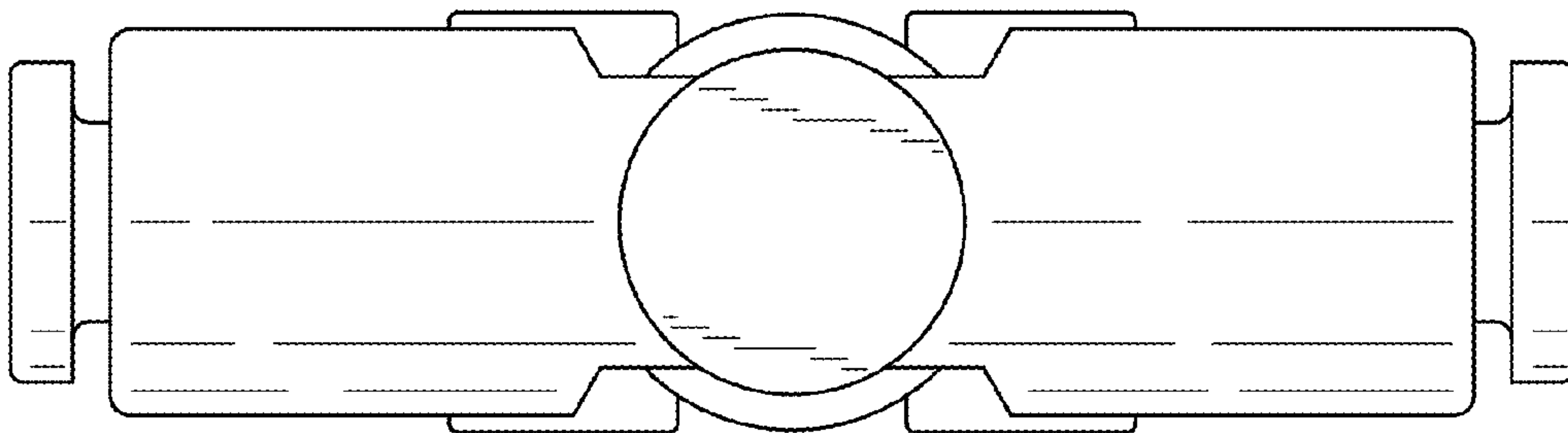


FIG. 6

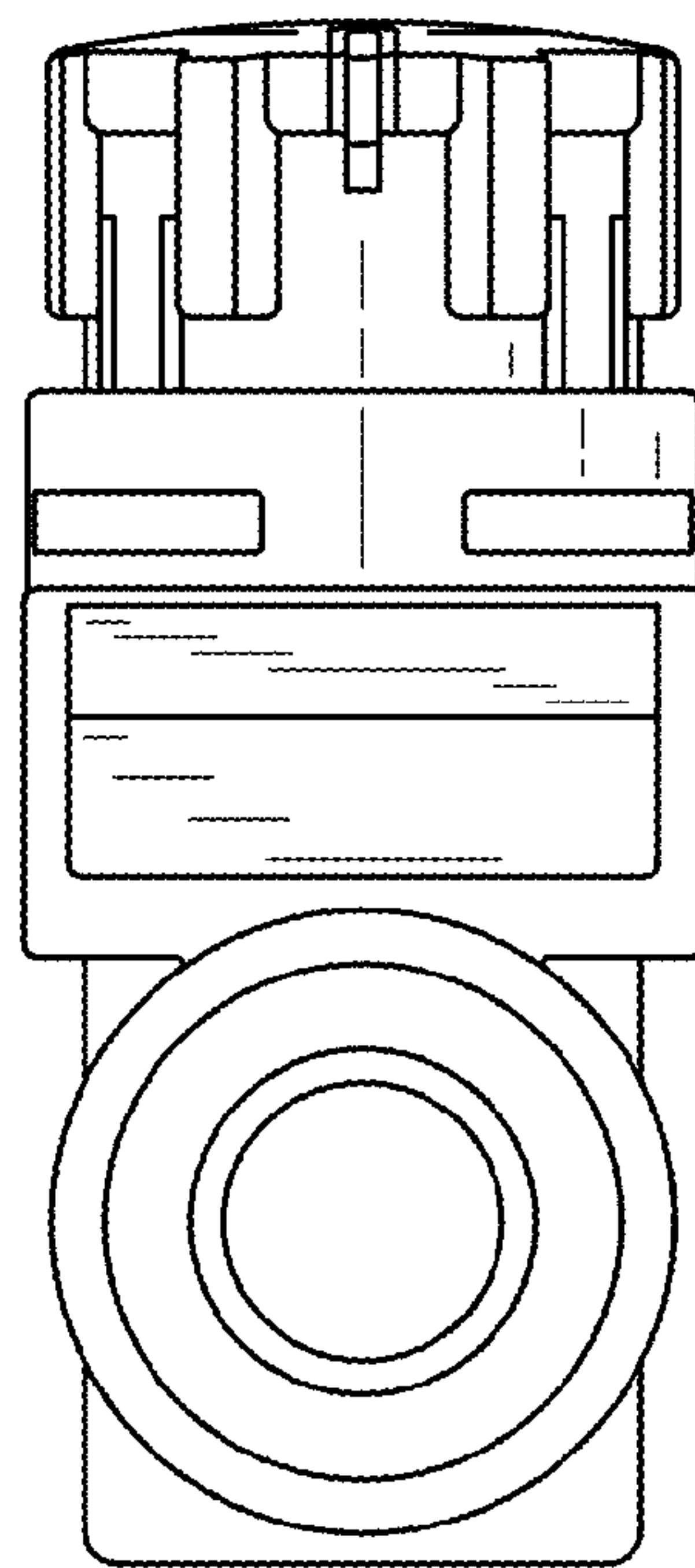


FIG. 7

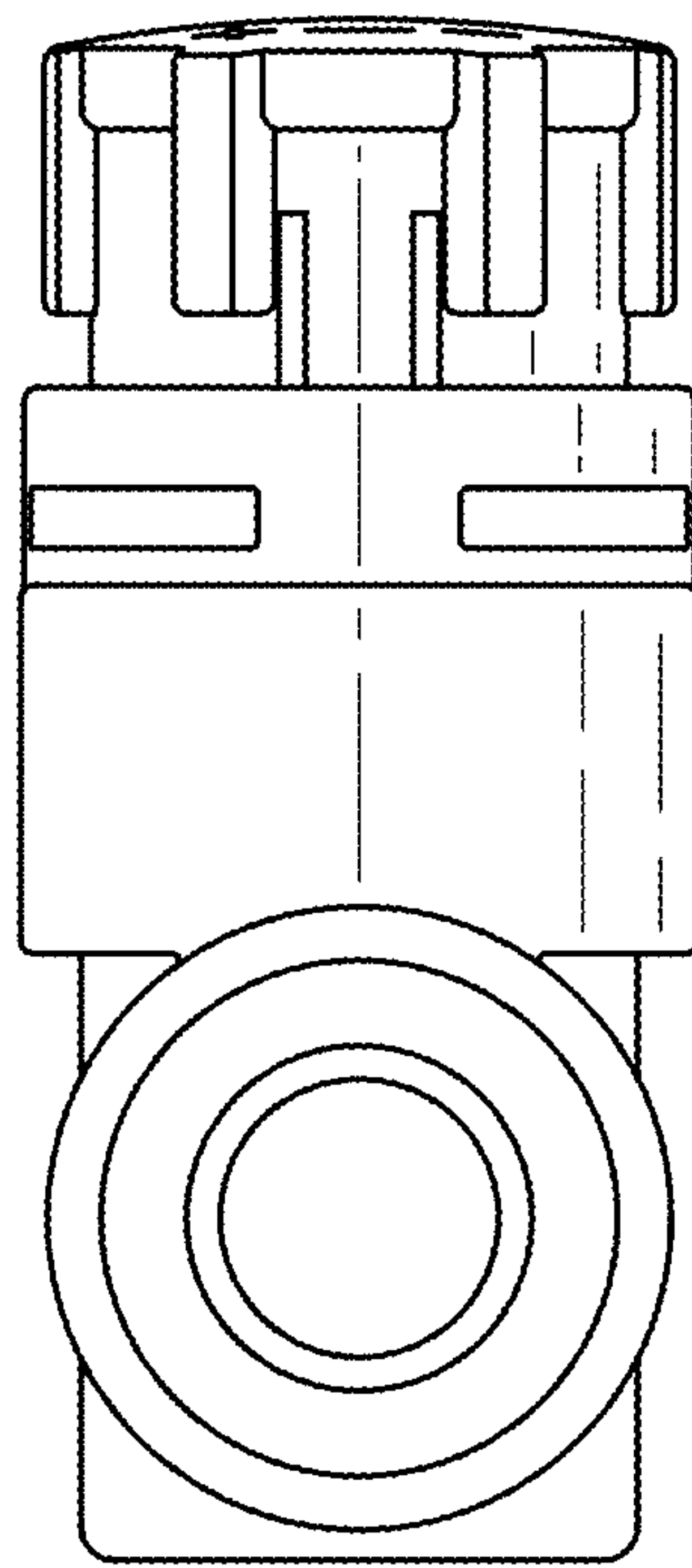


FIG. 8

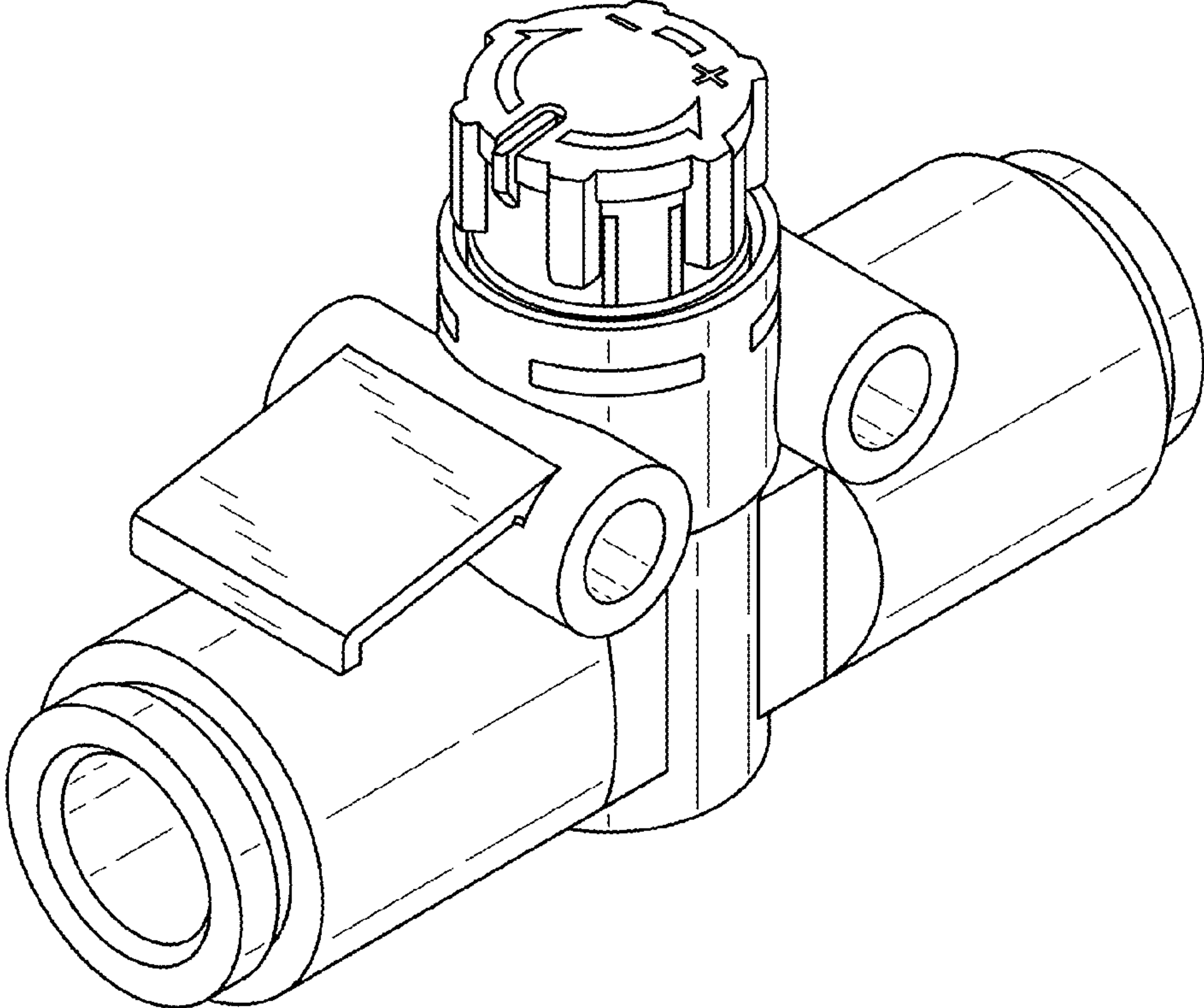


FIG. 9

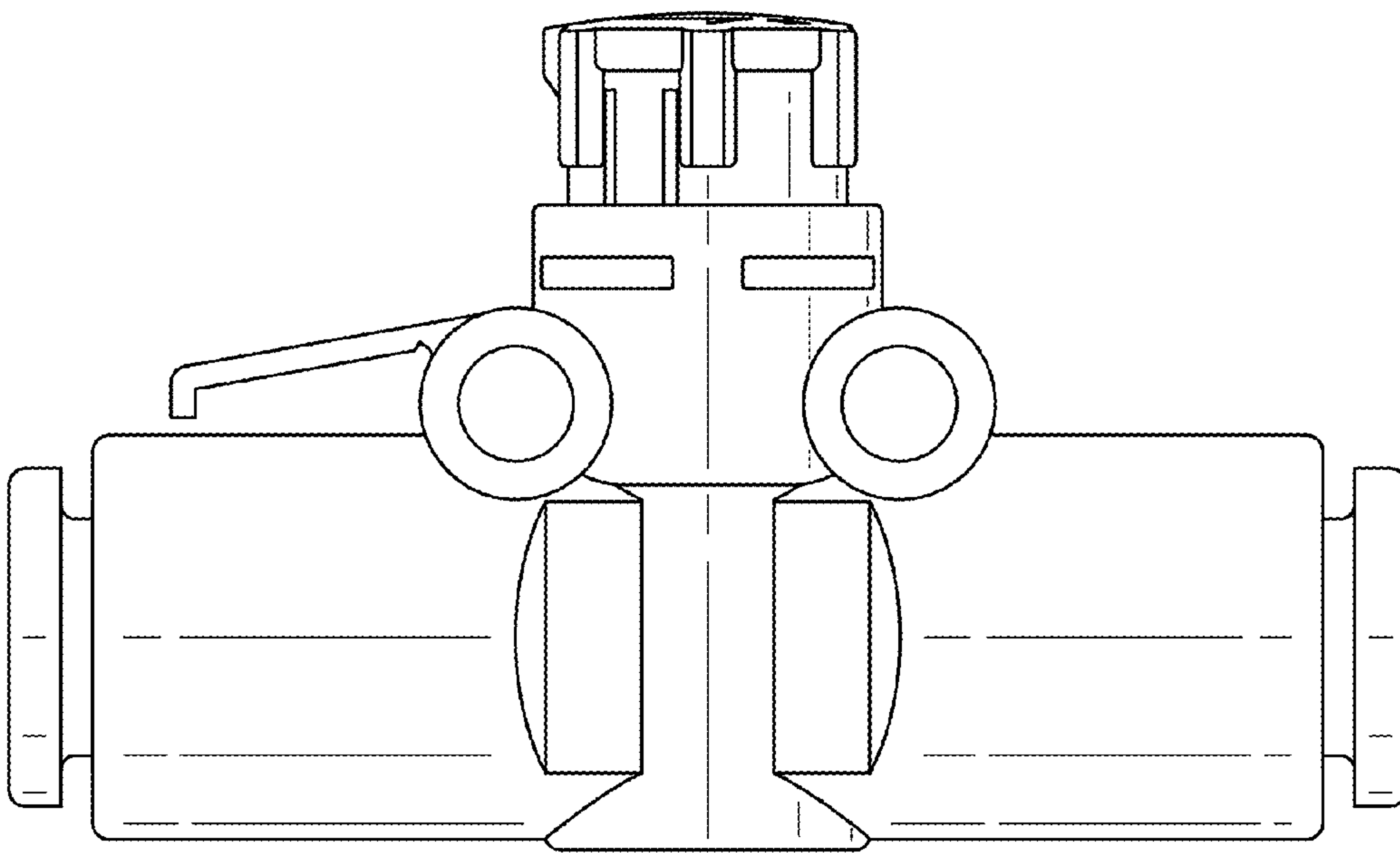


FIG. 10

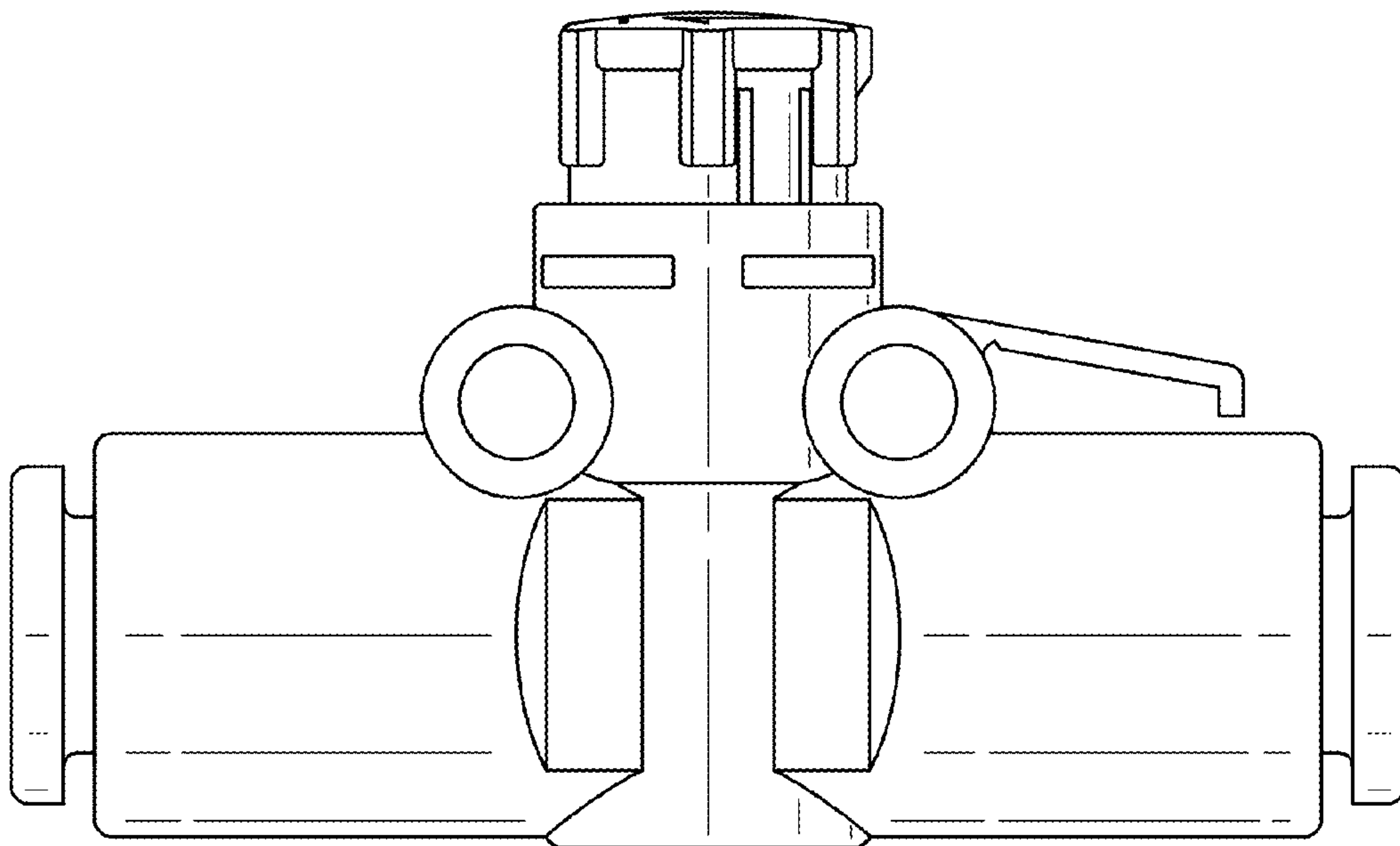


FIG. 11

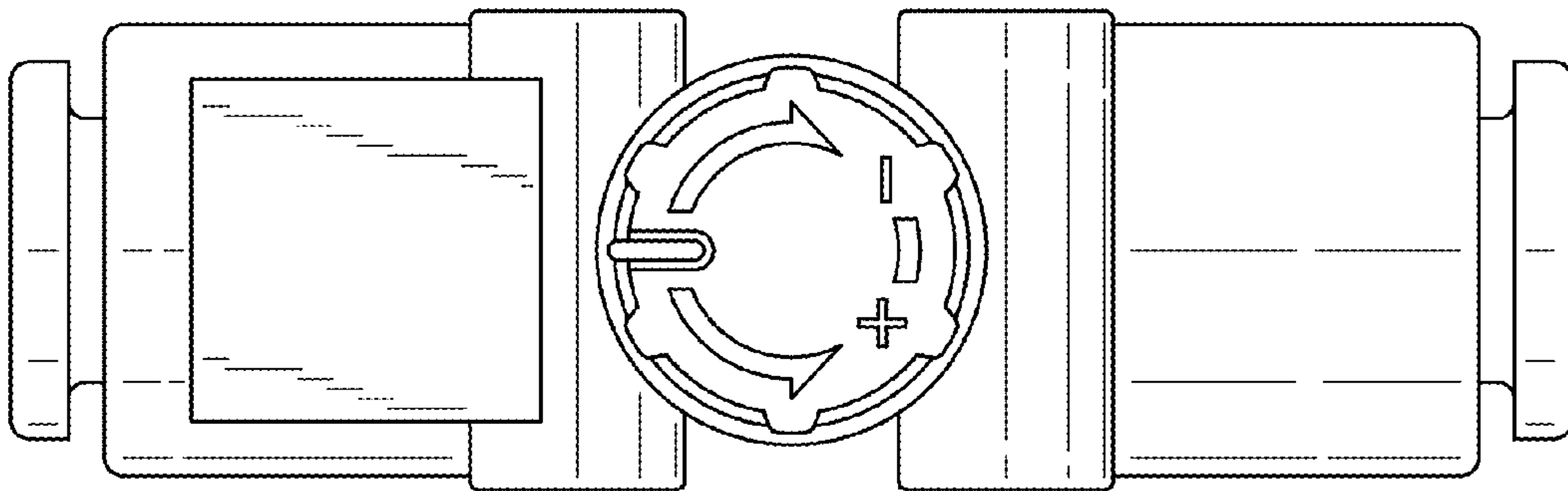


FIG. 12

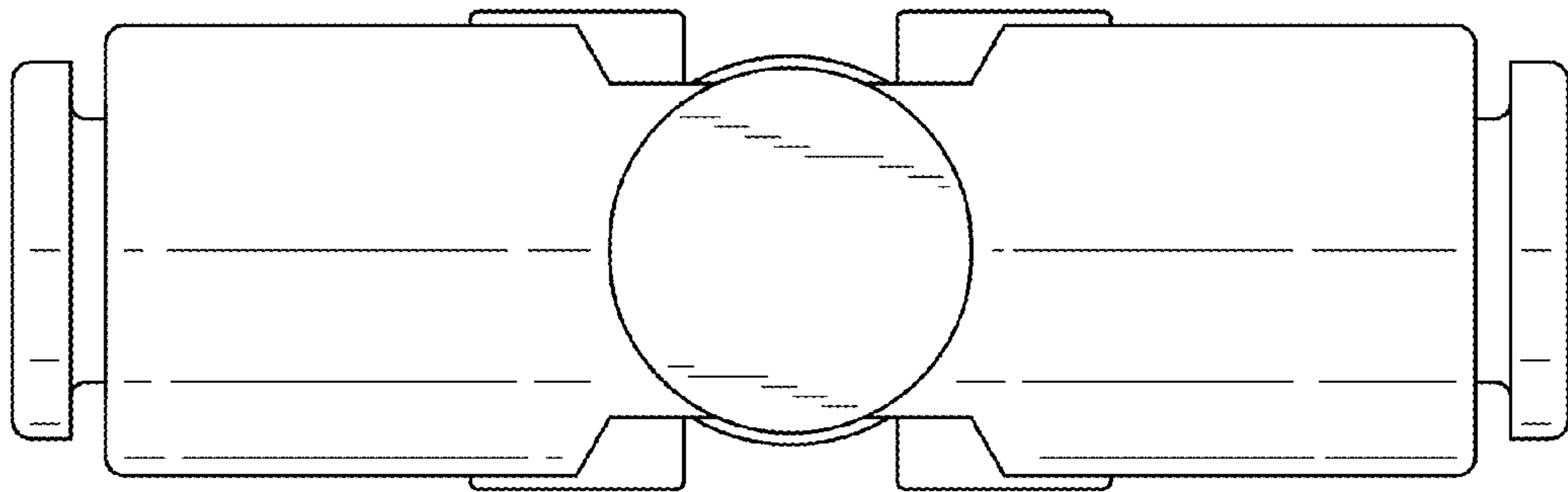


FIG. 13

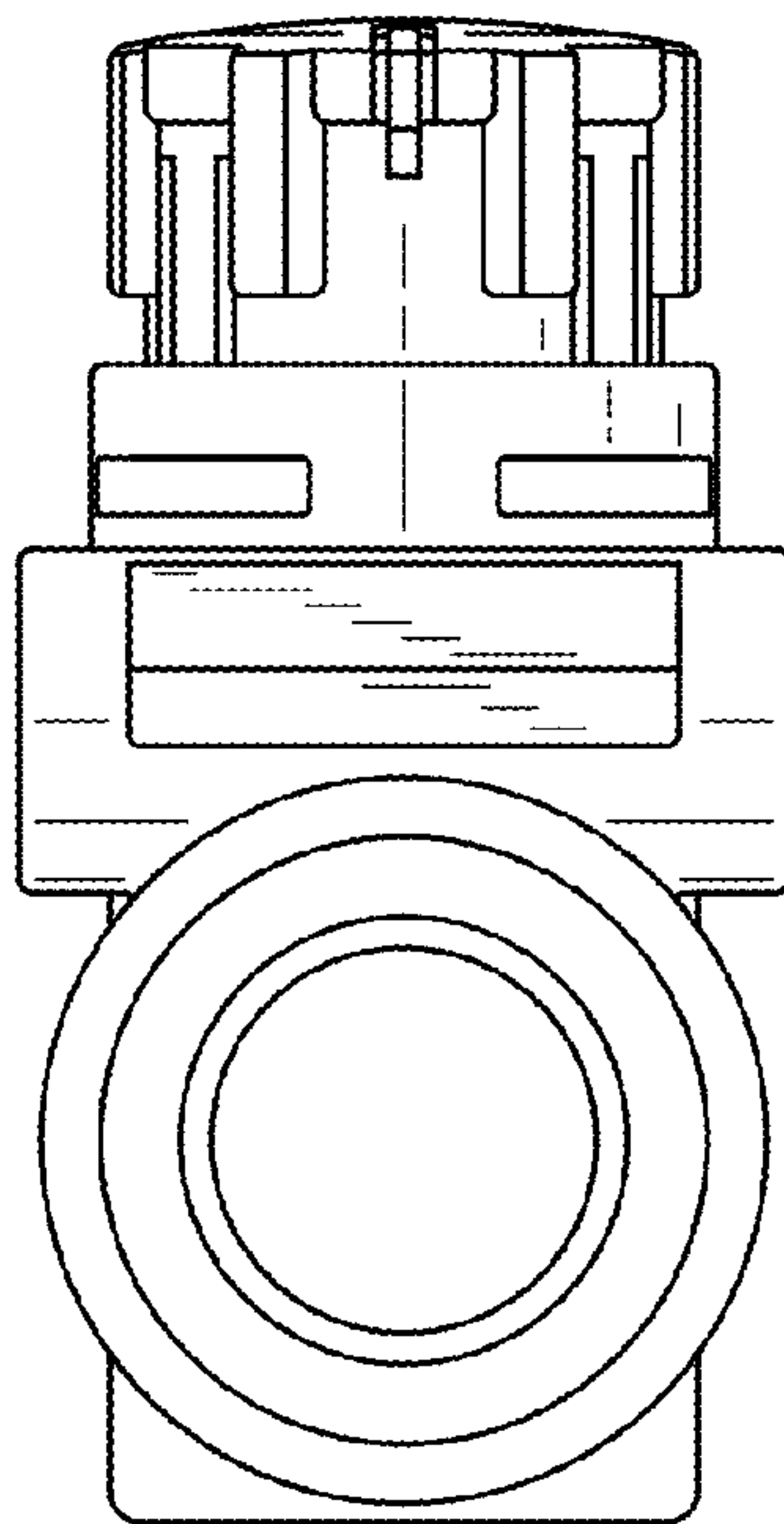


FIG. 14

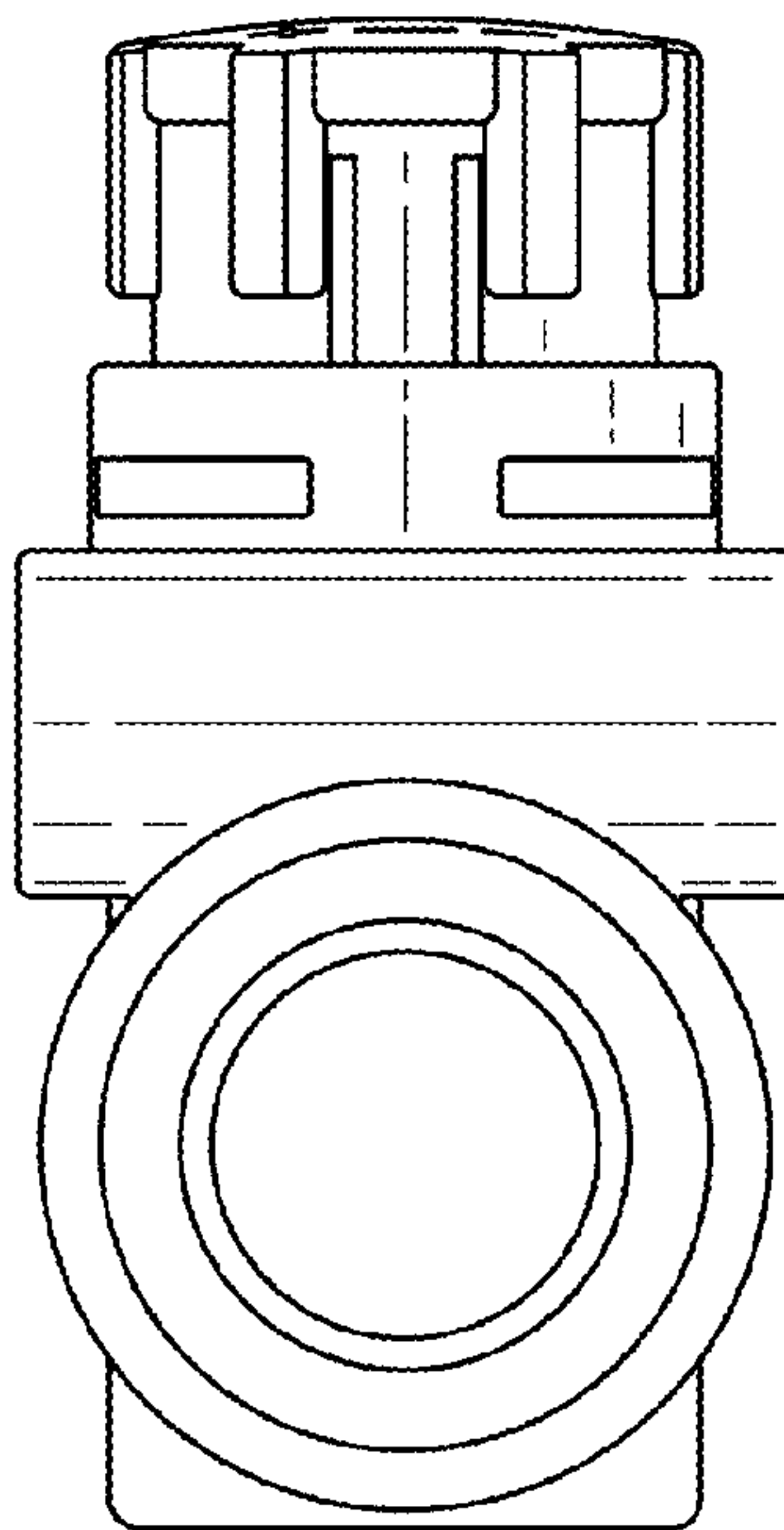


FIG. 15

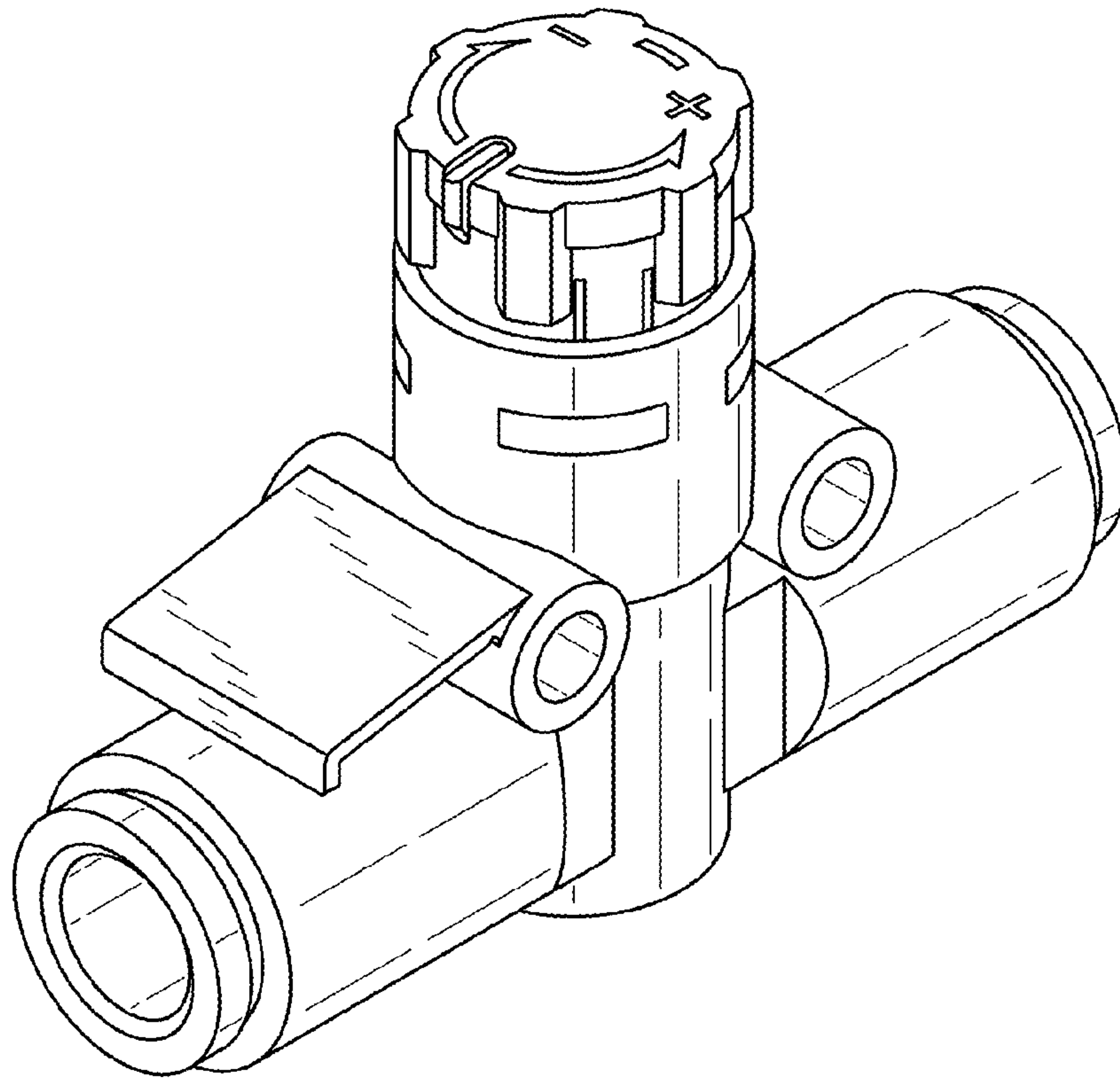


FIG. 16

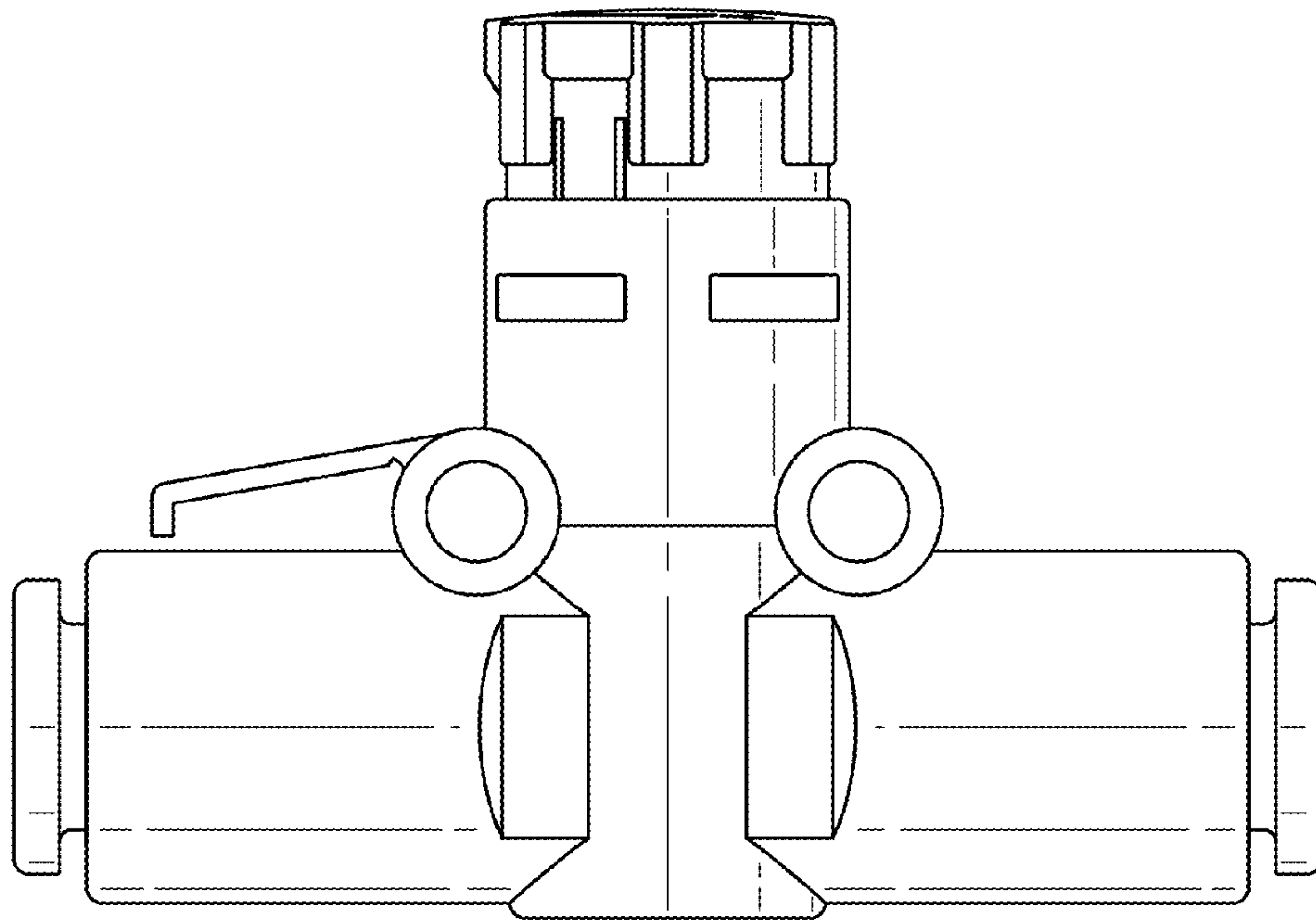


FIG. 17

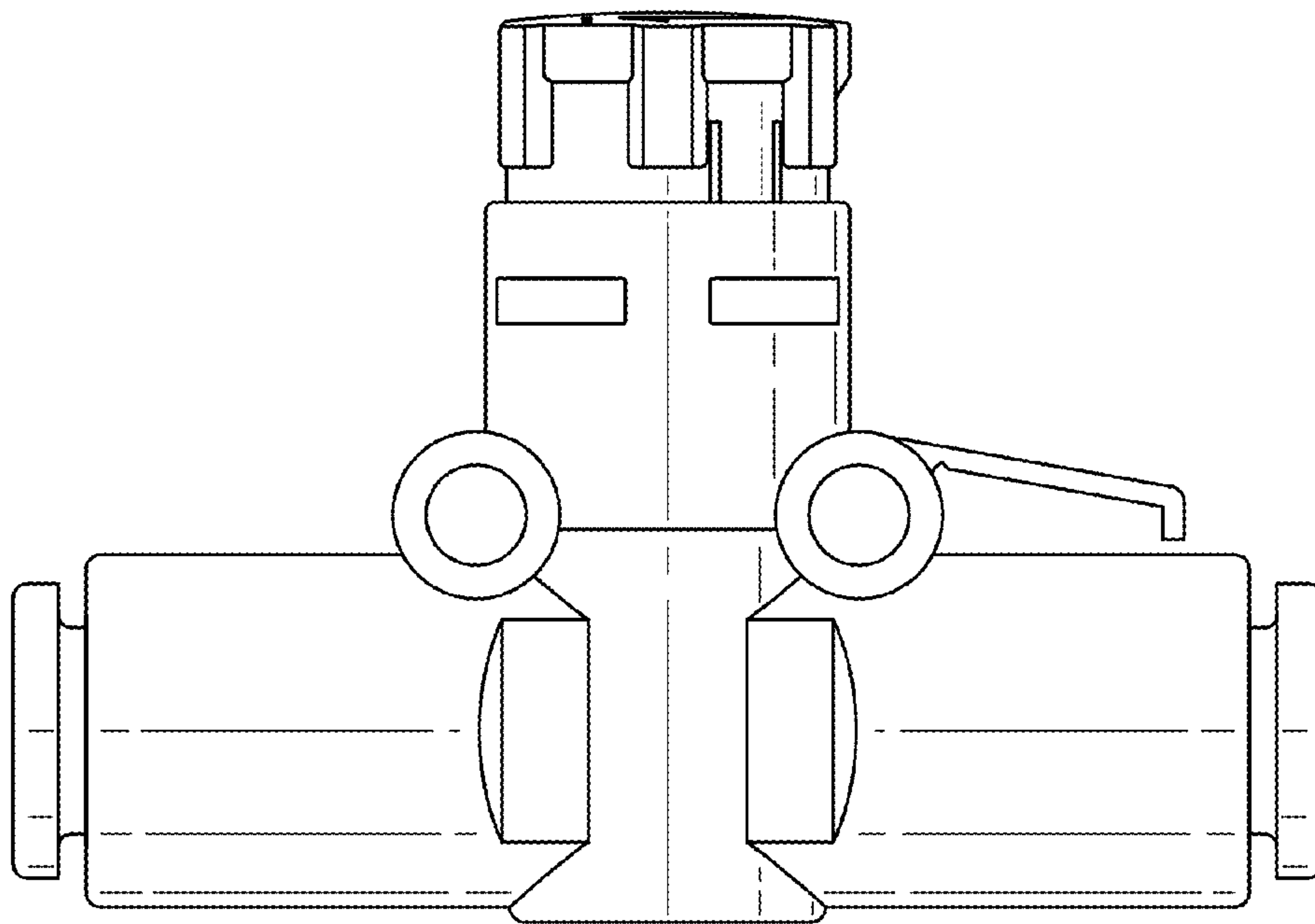


FIG. 18

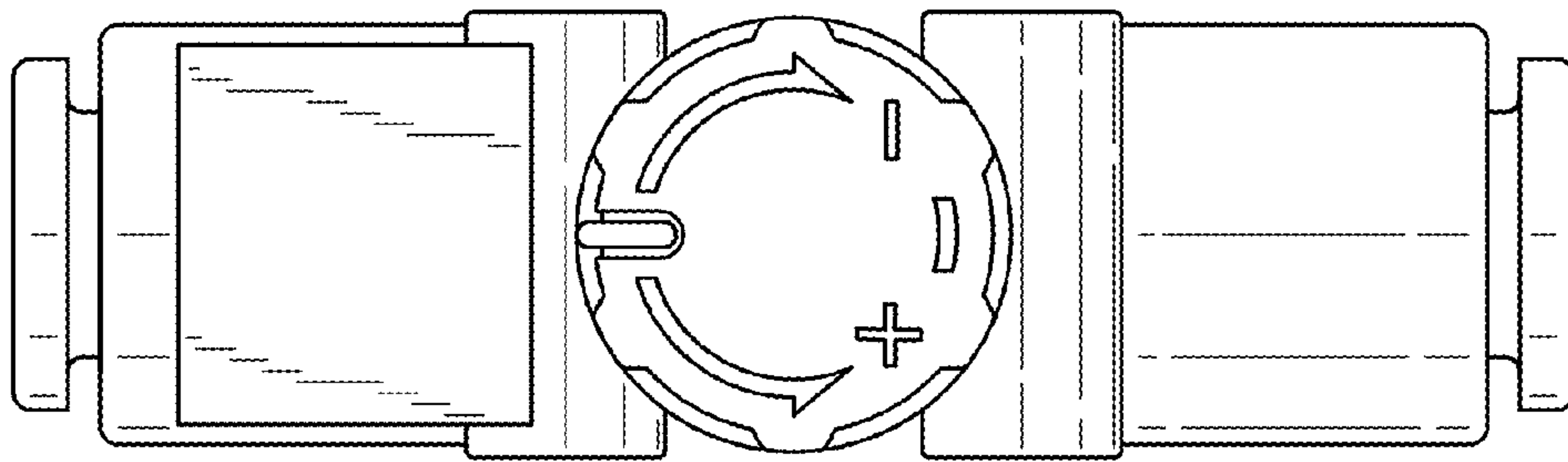


FIG. 19

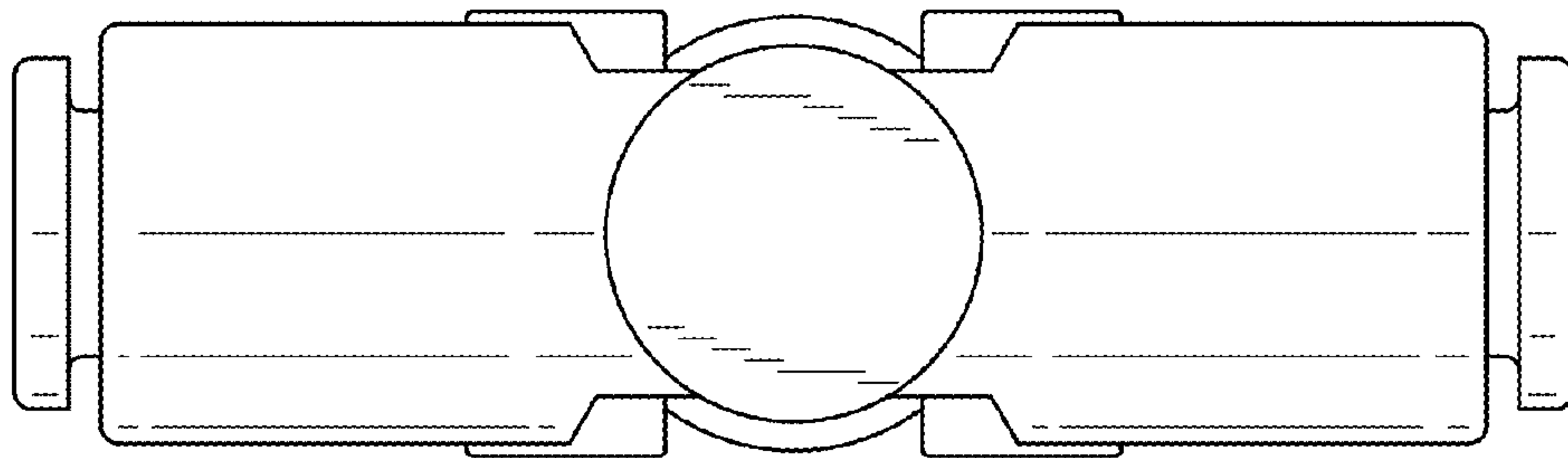


FIG. 20

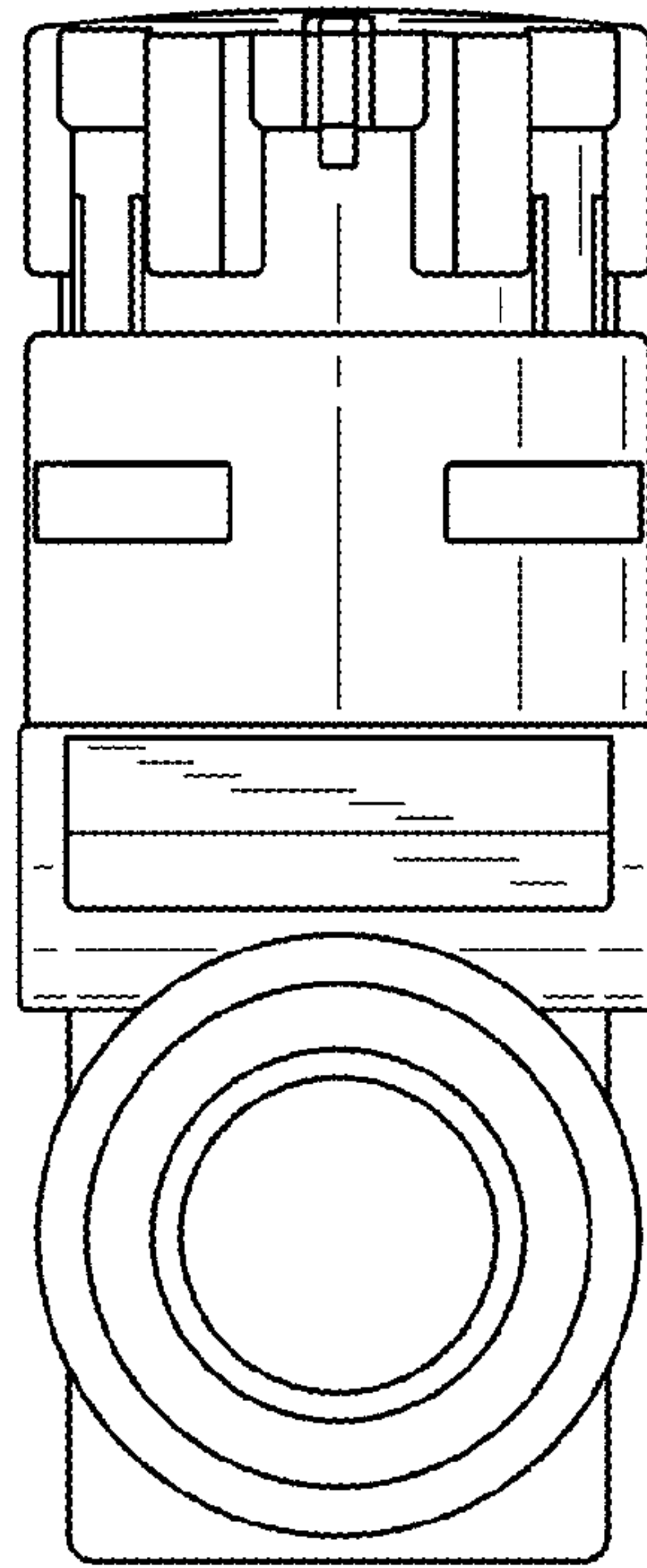


FIG. 21

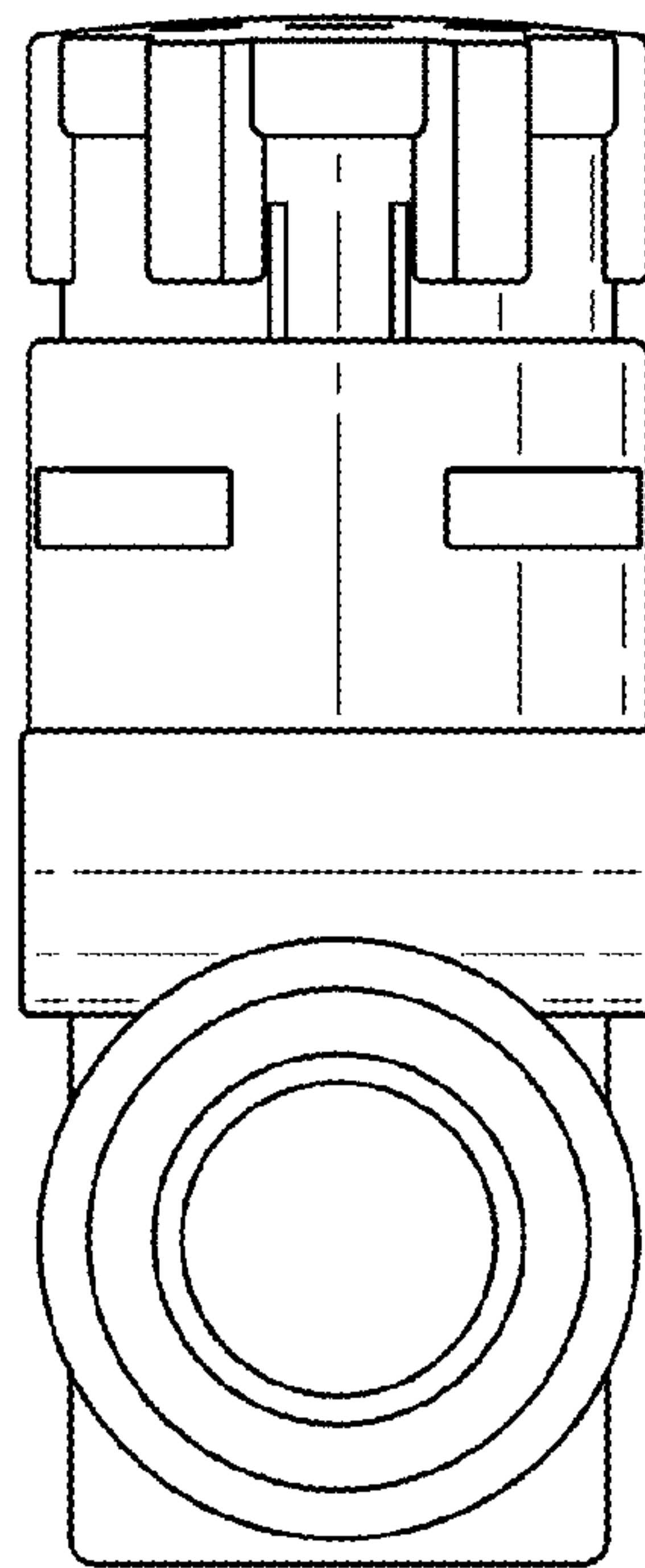


FIG. 22

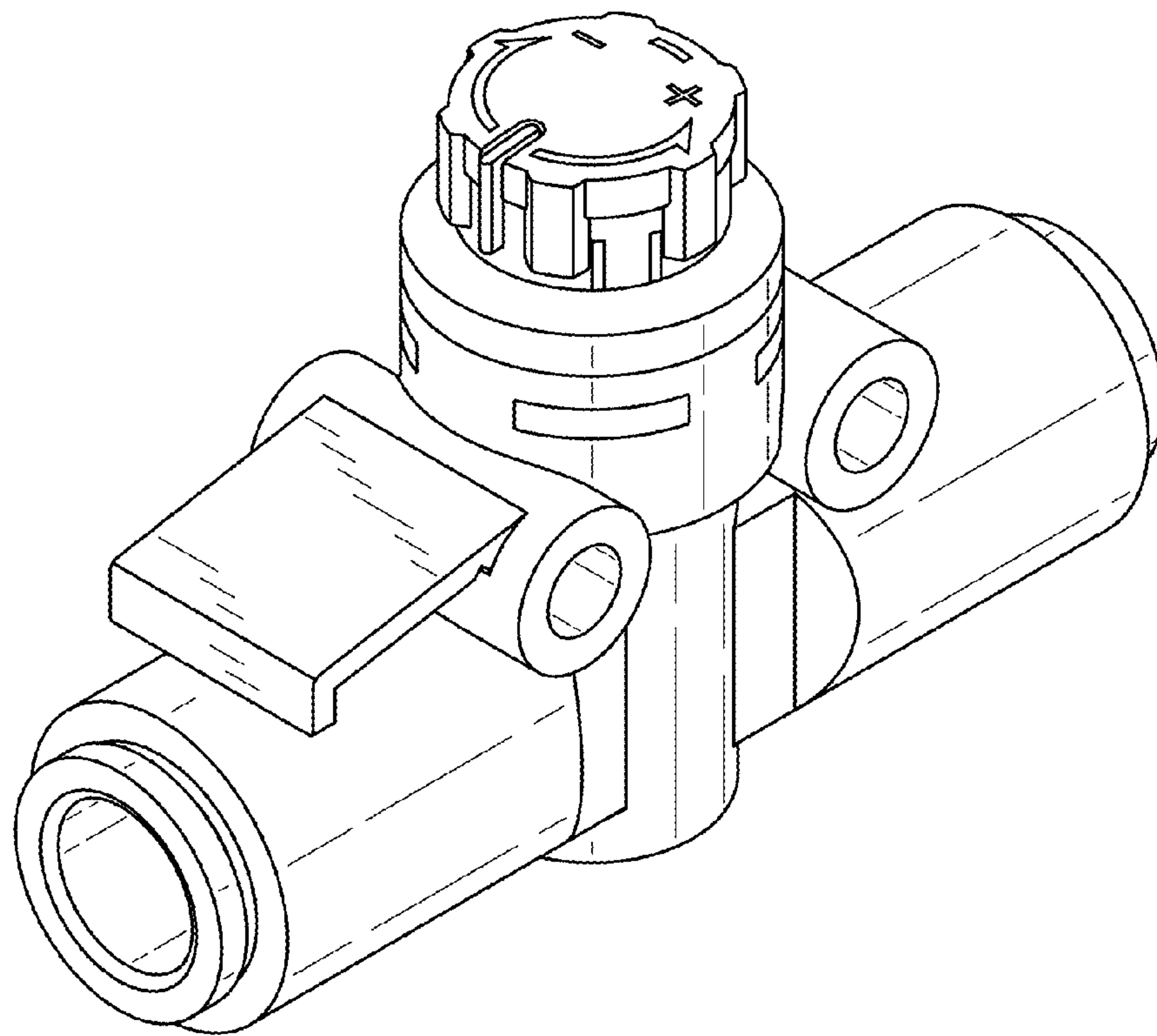


FIG. 23

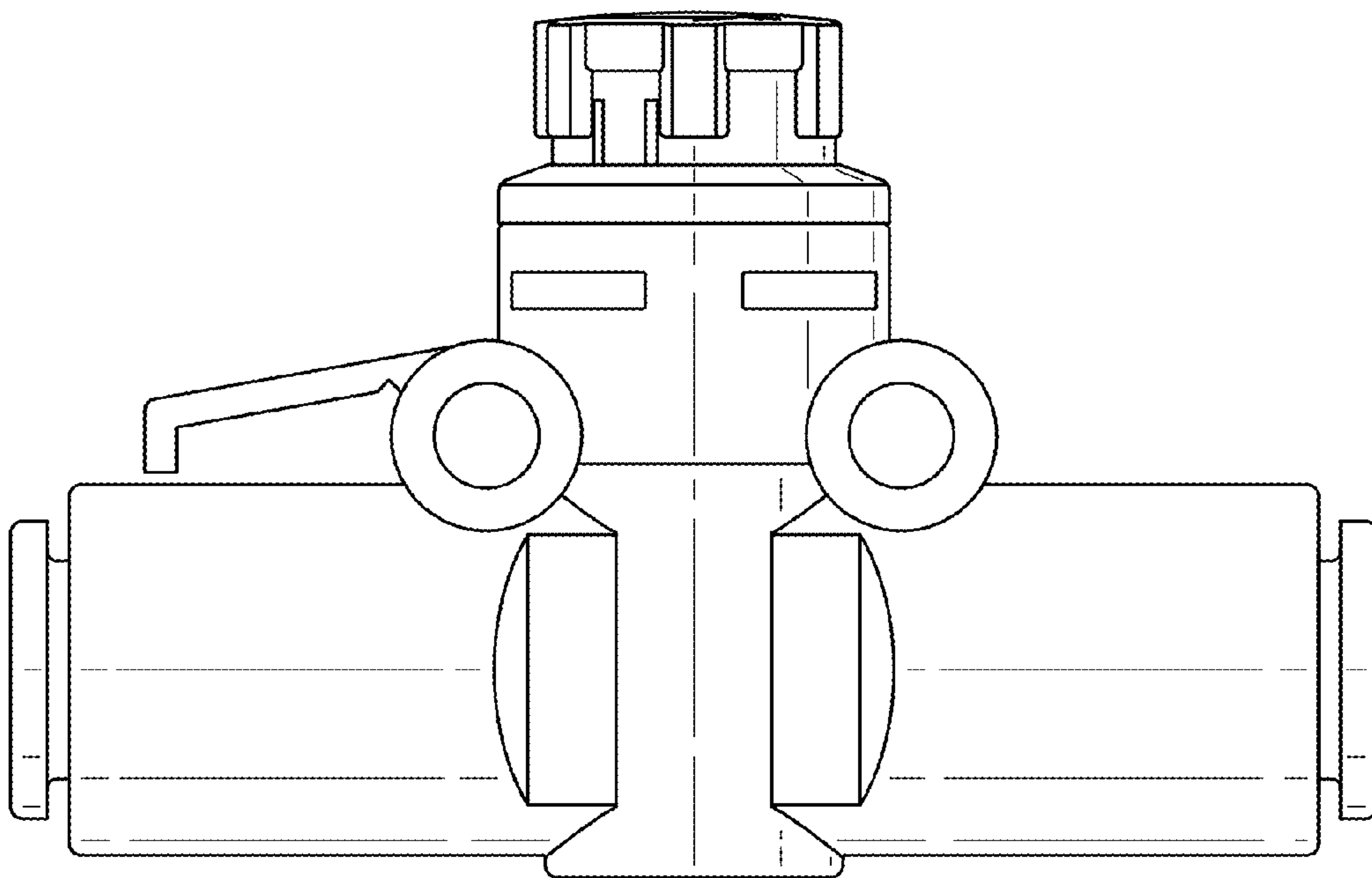


FIG. 24

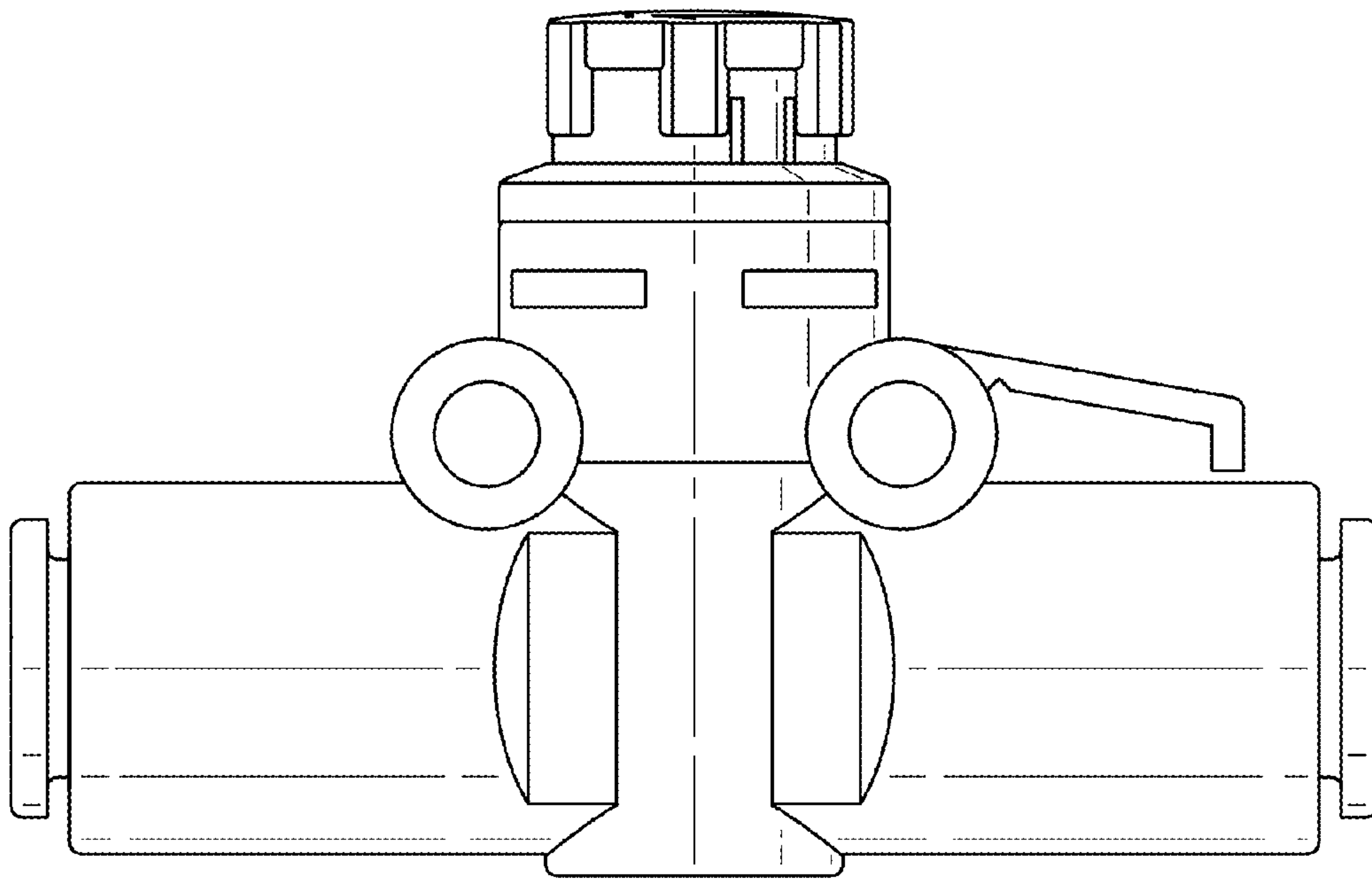


FIG. 25

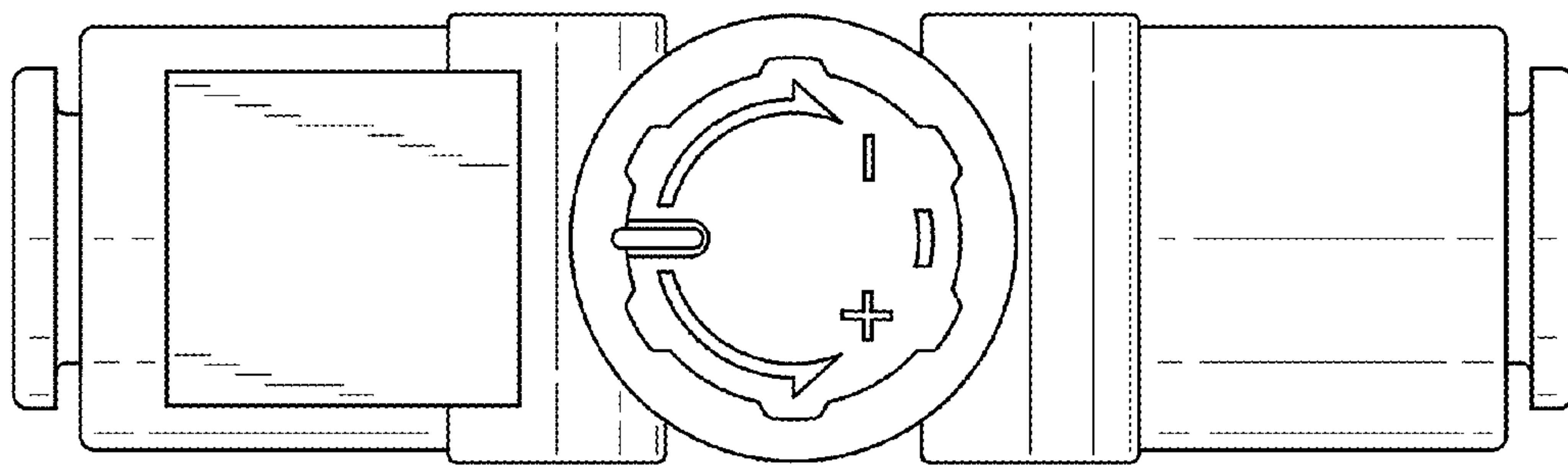


FIG. 26

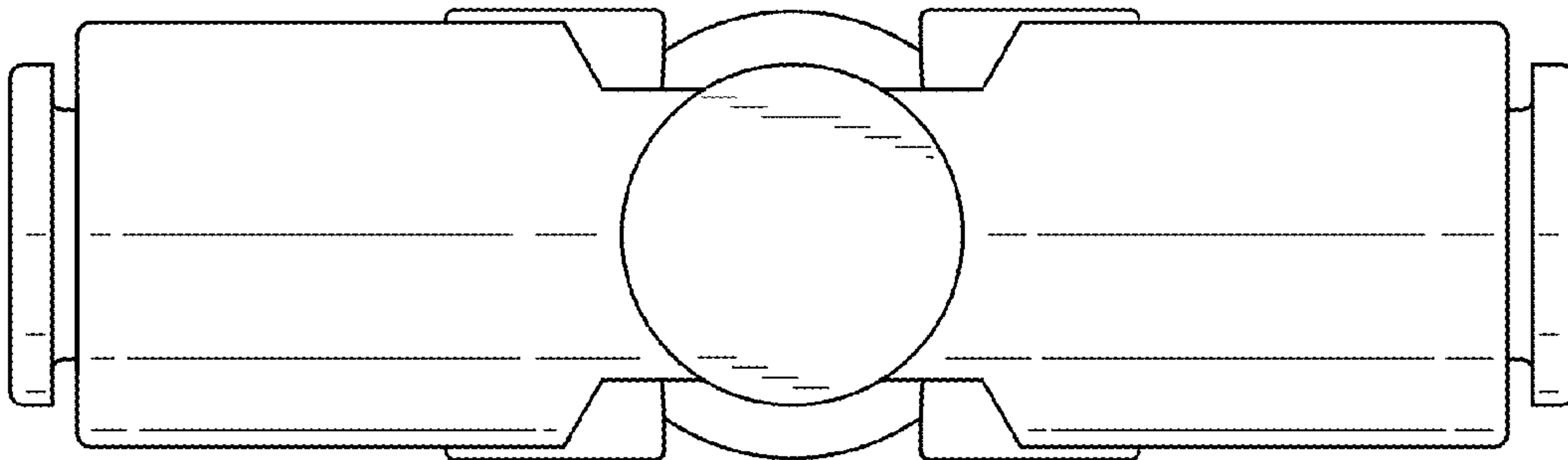


FIG. 27

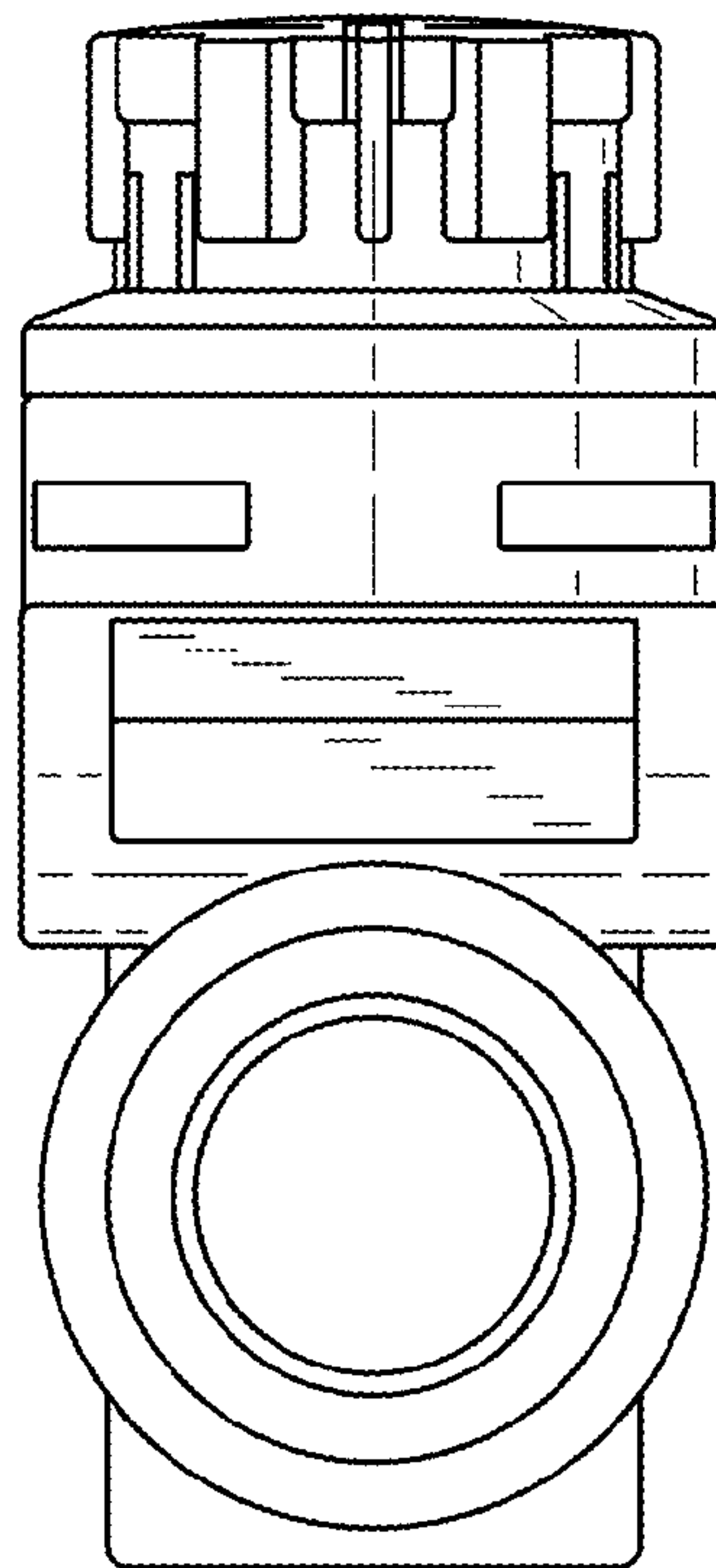


FIG. 28

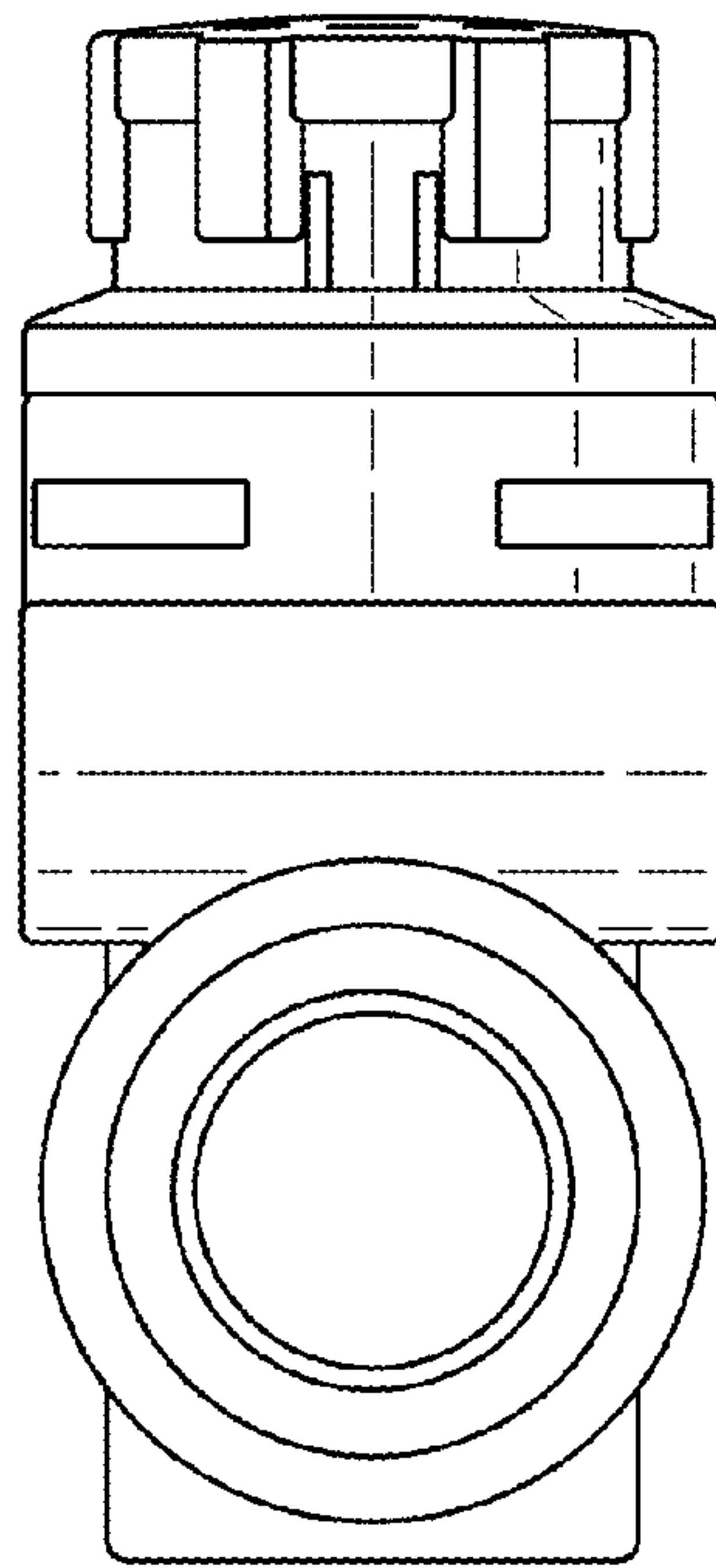


FIG. 29

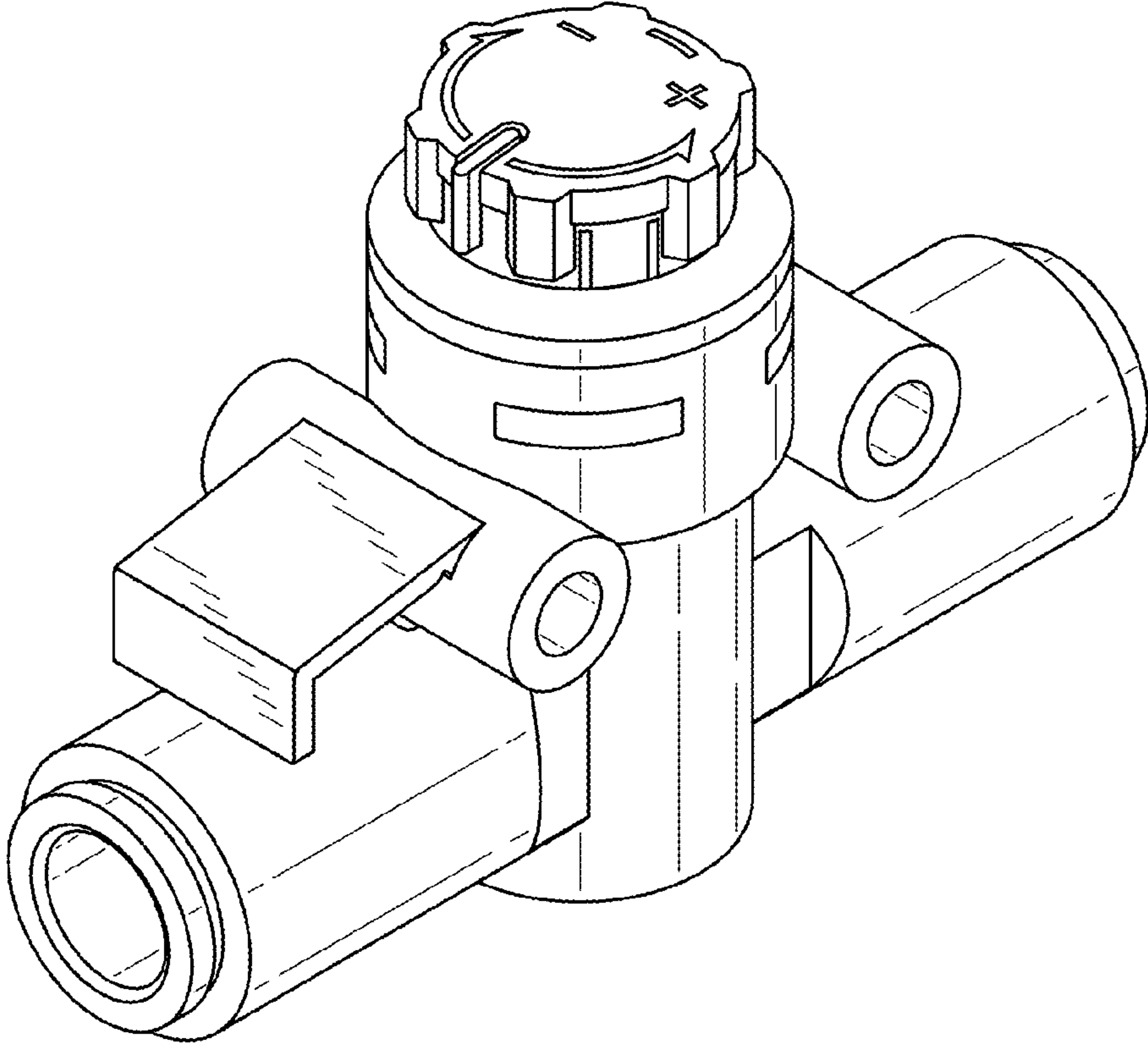


FIG. 30

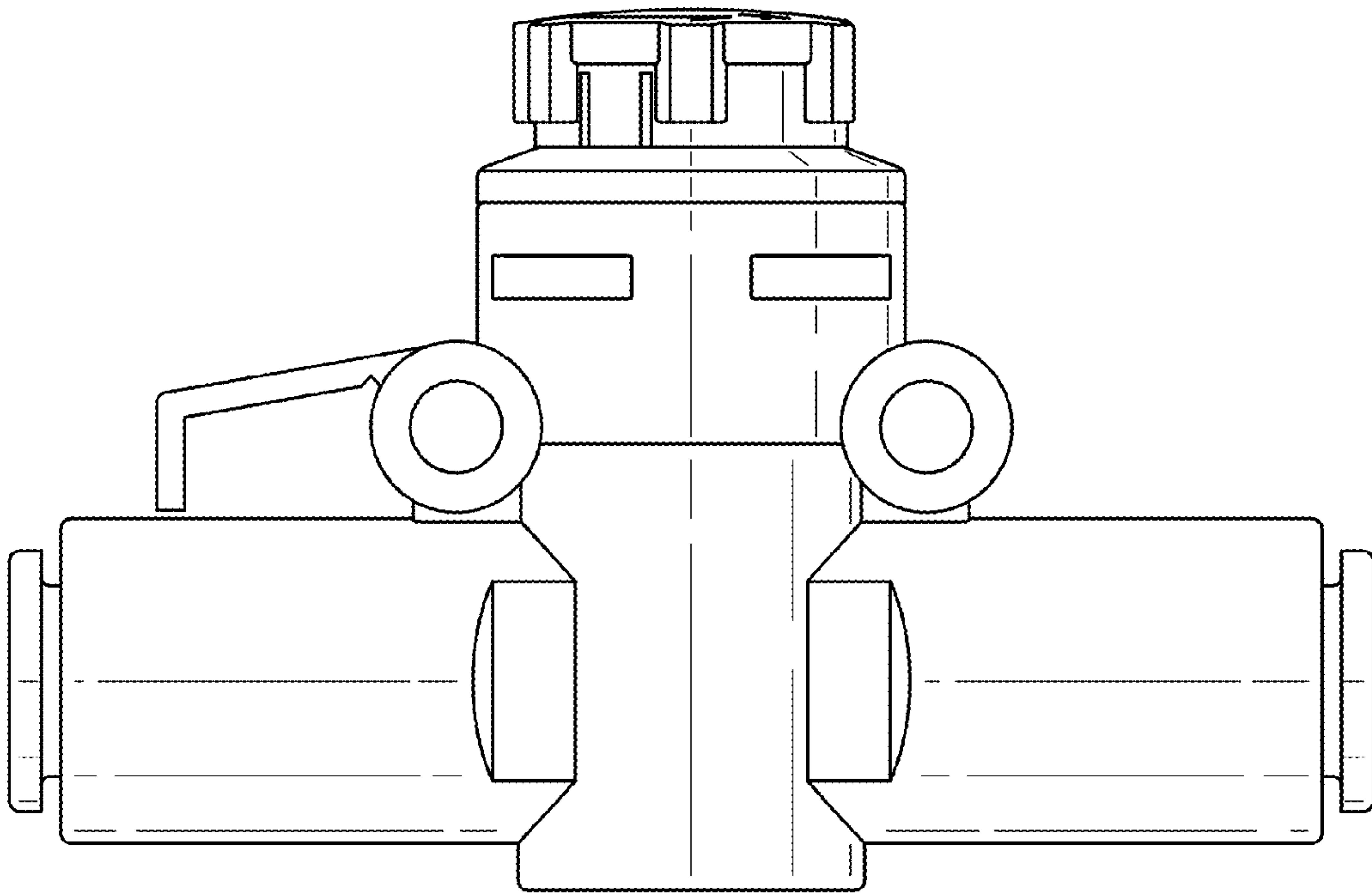


FIG. 31

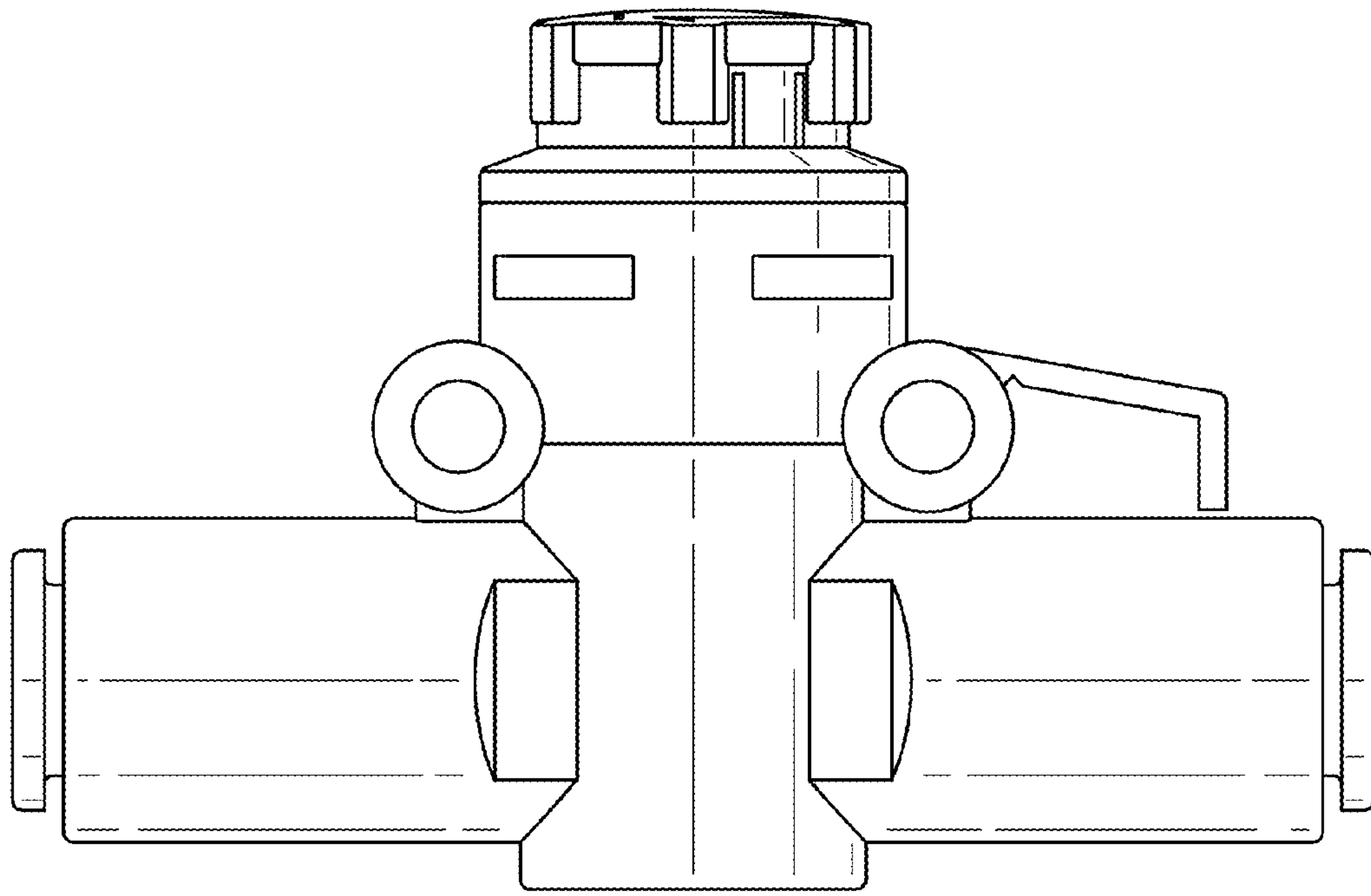


FIG. 32

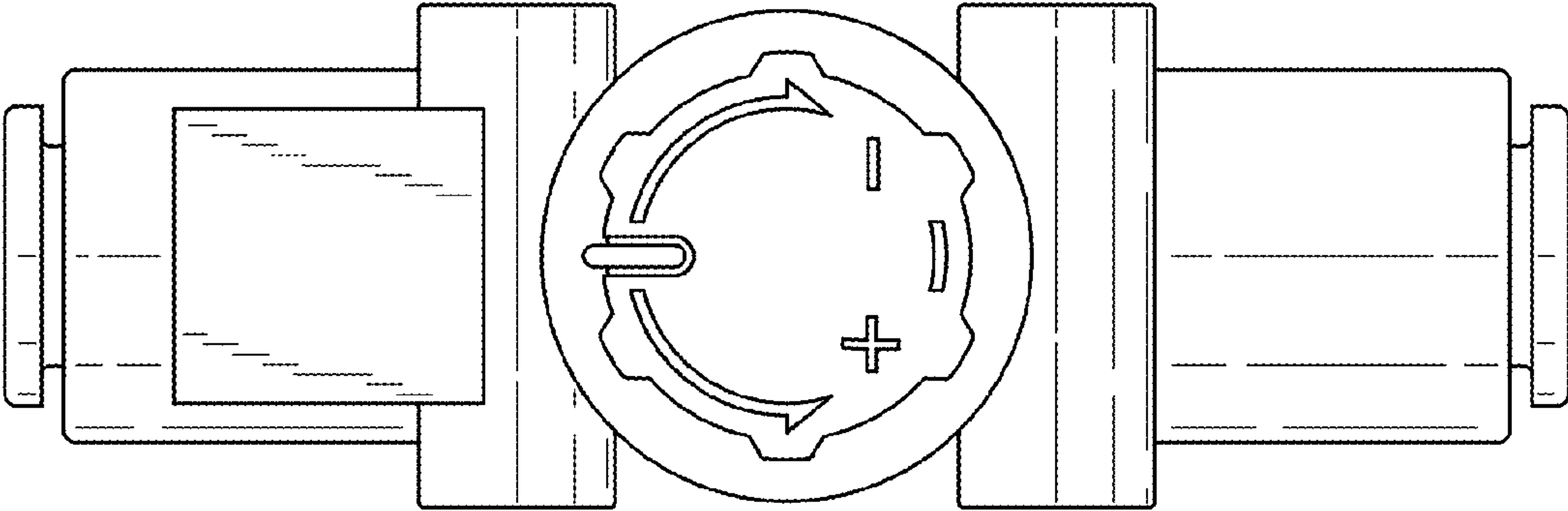


FIG. 33

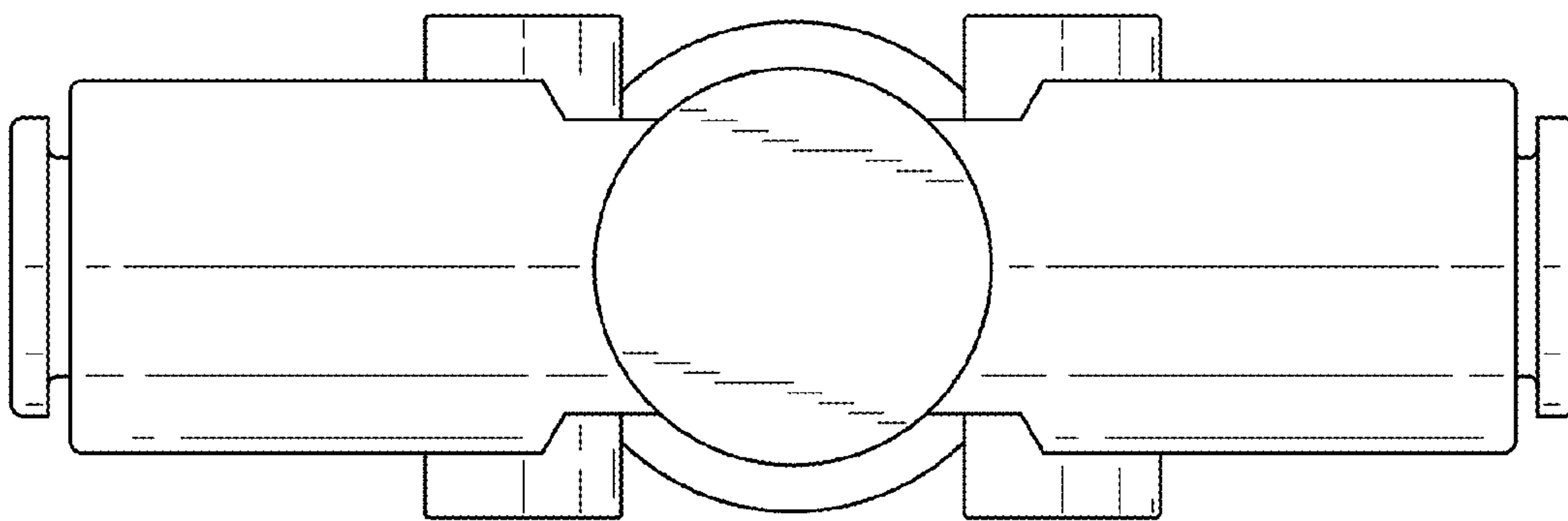


FIG. 34

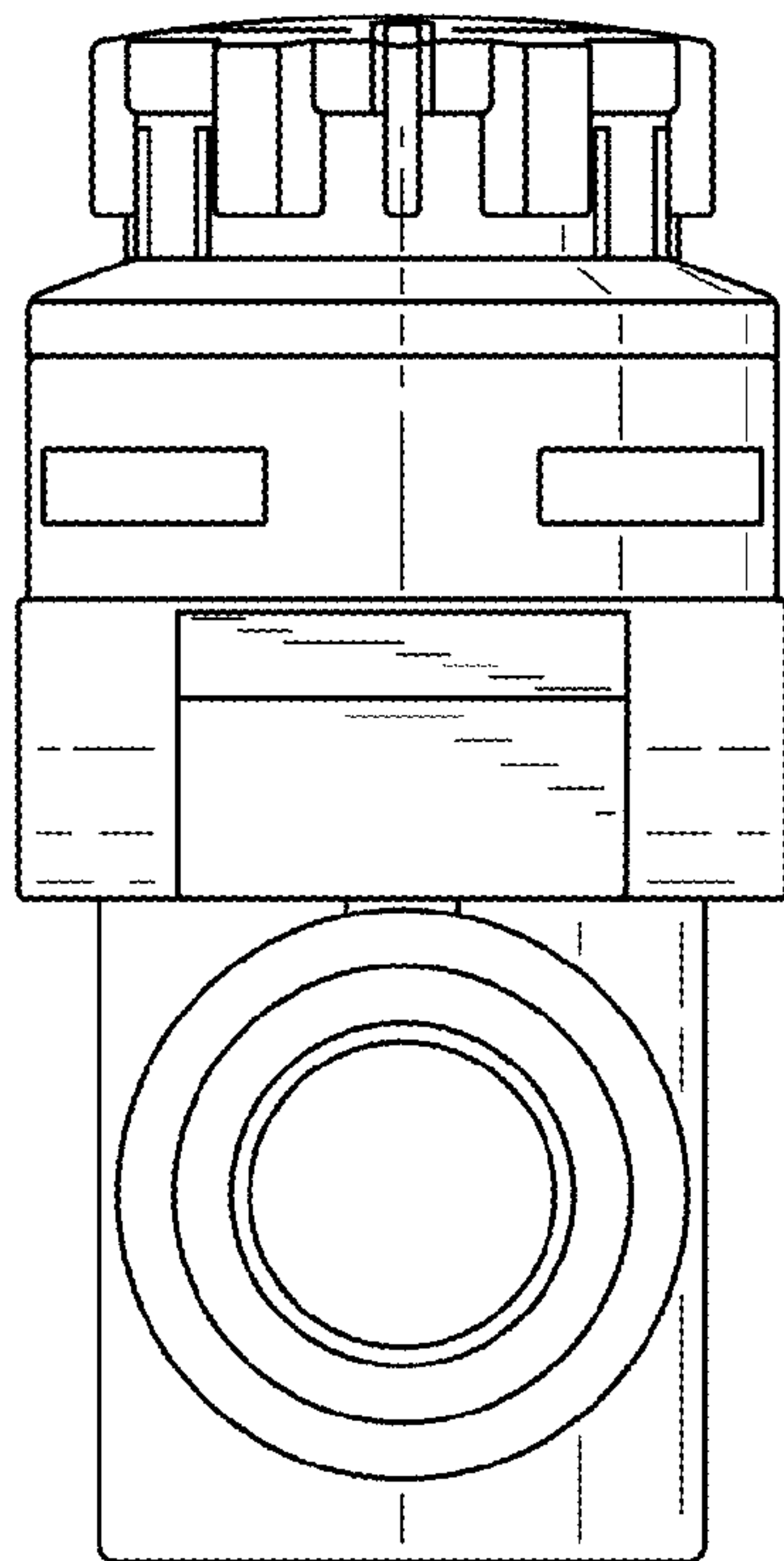


FIG. 35

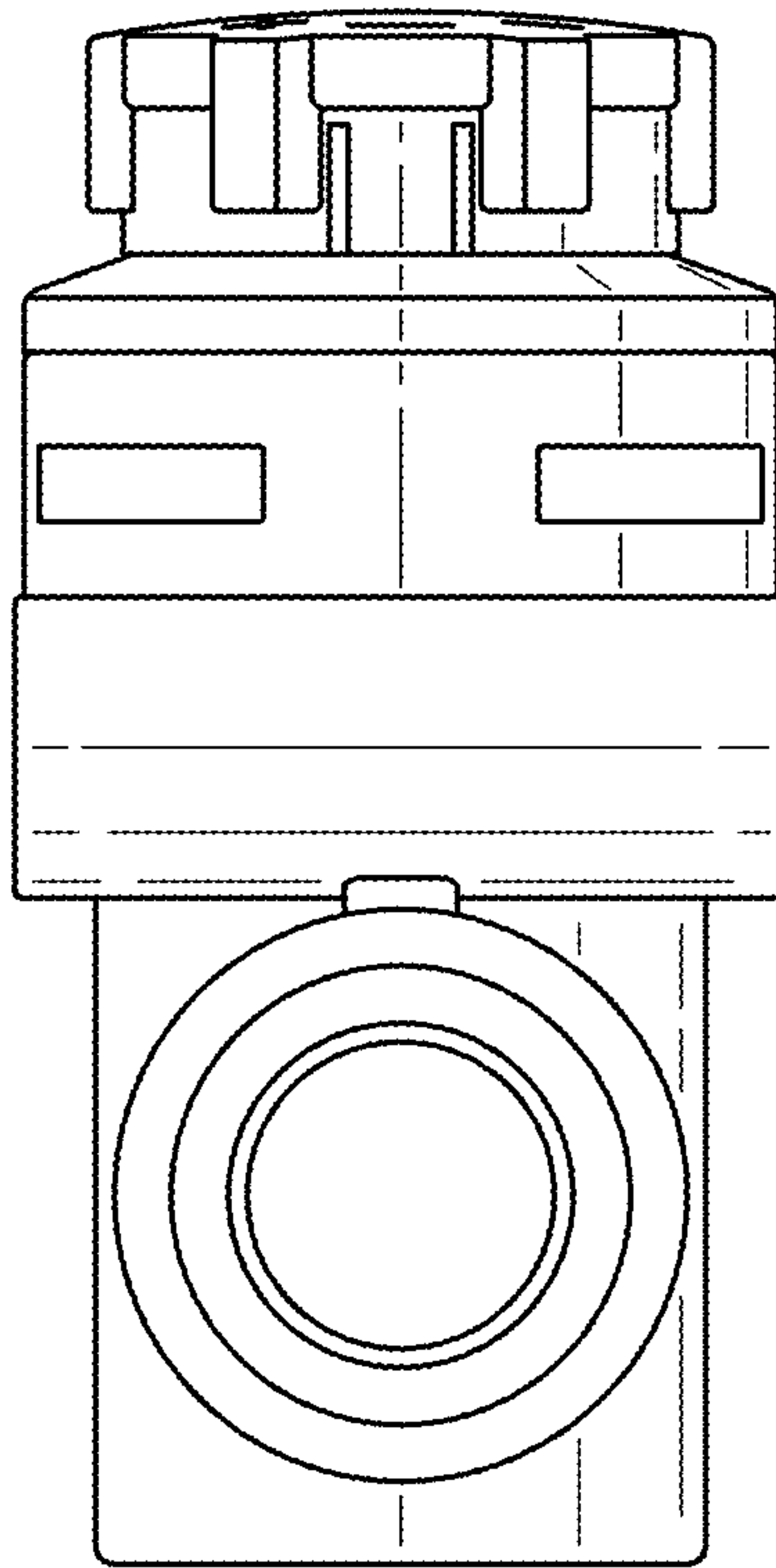


FIG. 36

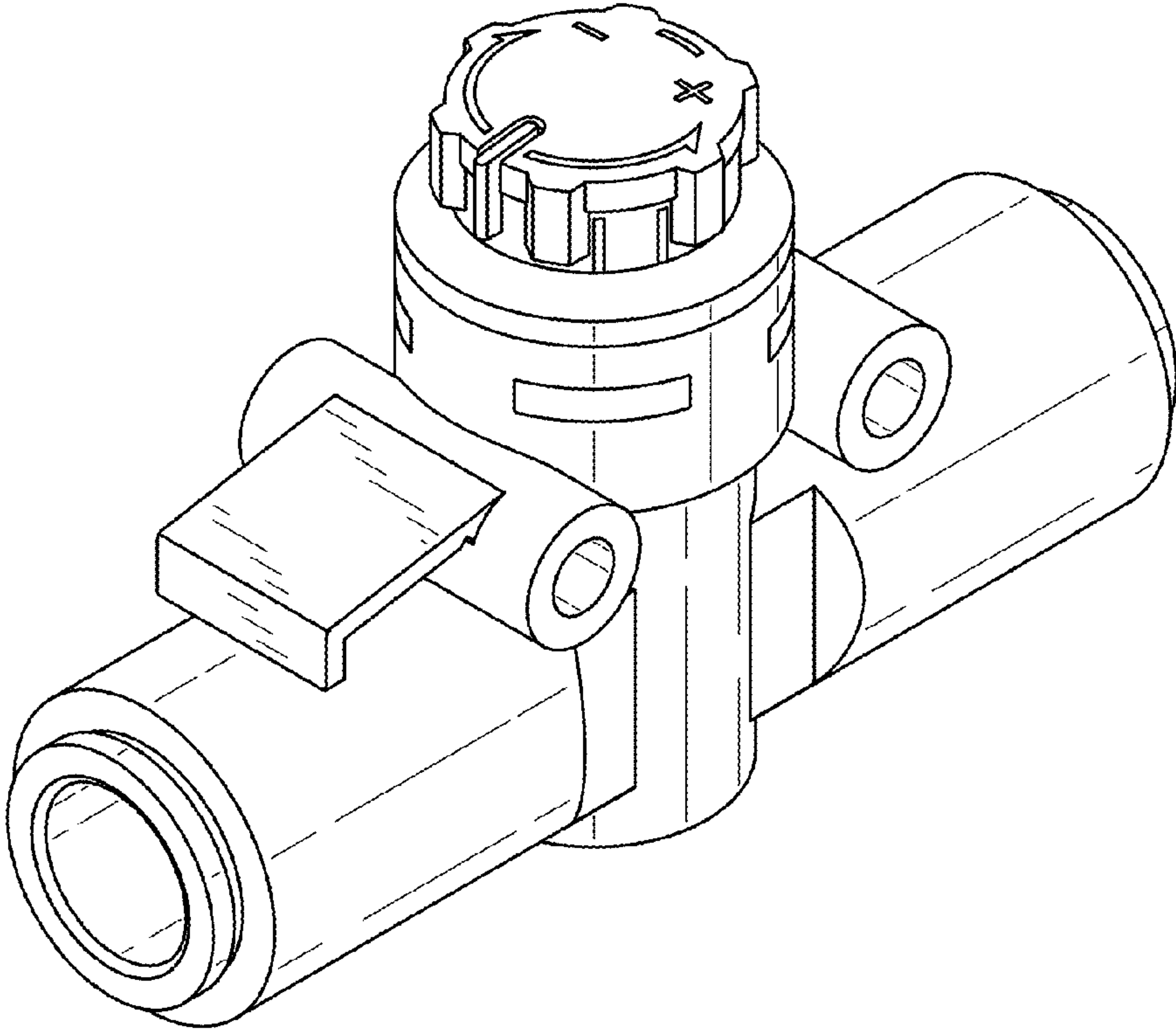


FIG. 37

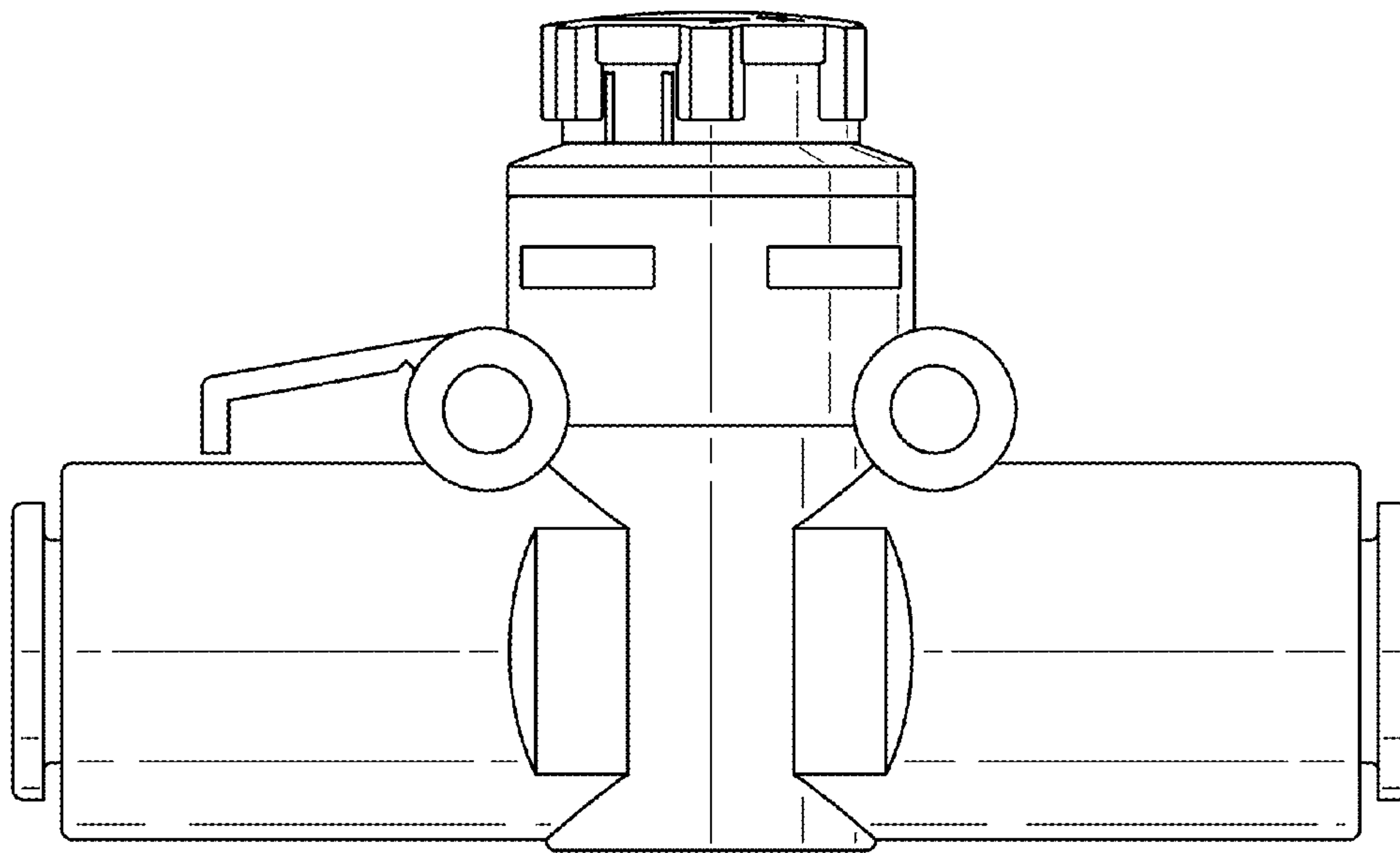


FIG. 38

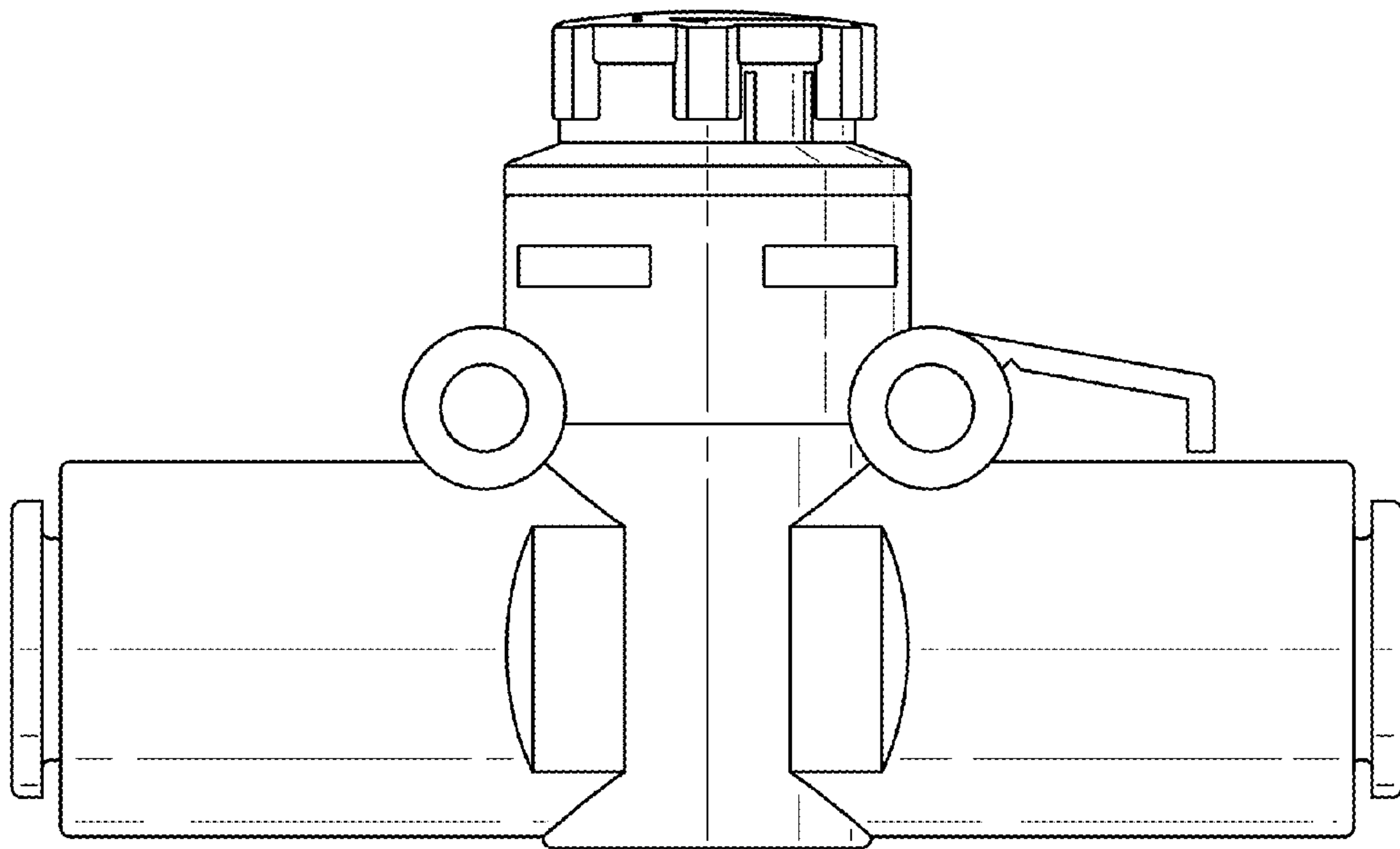


FIG. 39

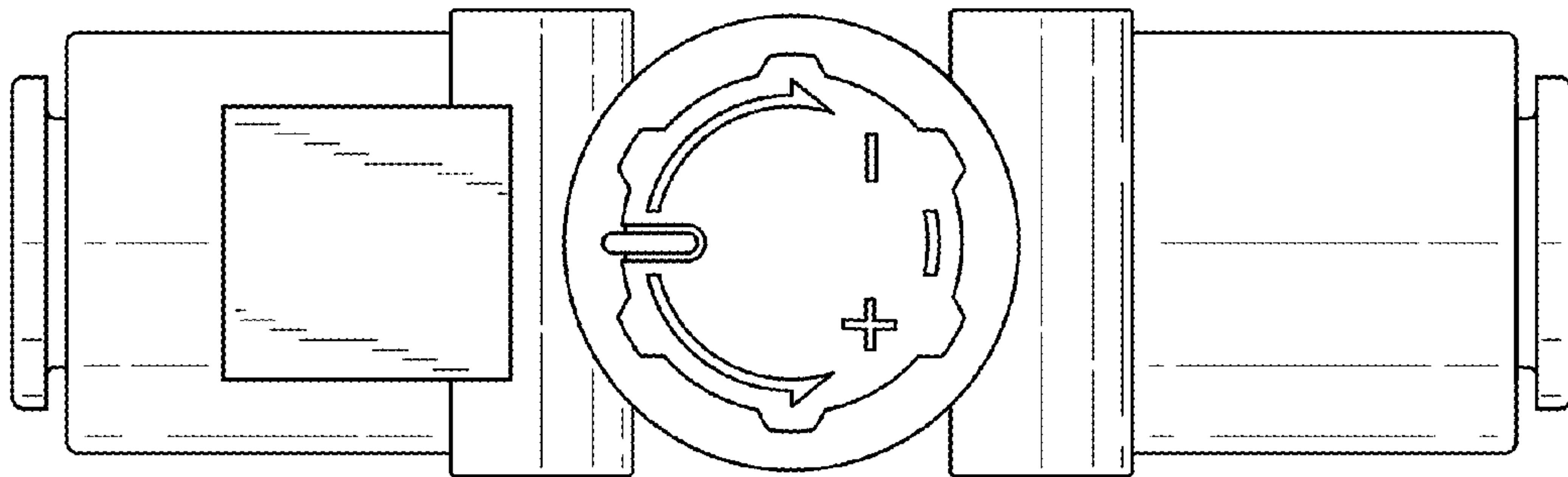


FIG. 40

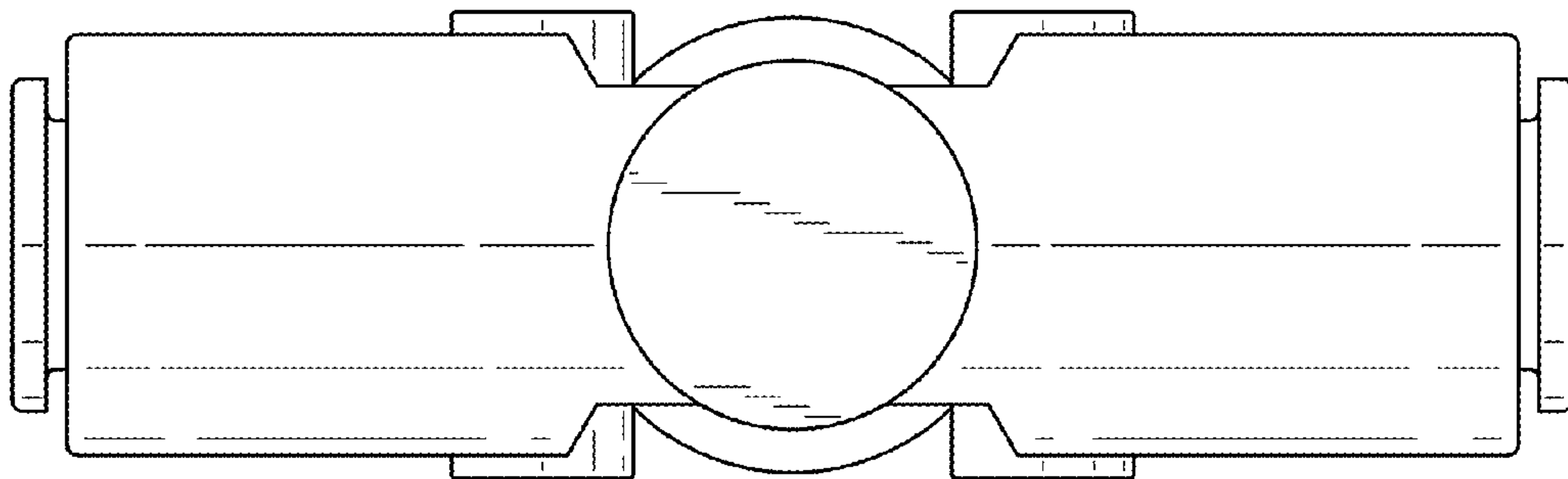


FIG. 41

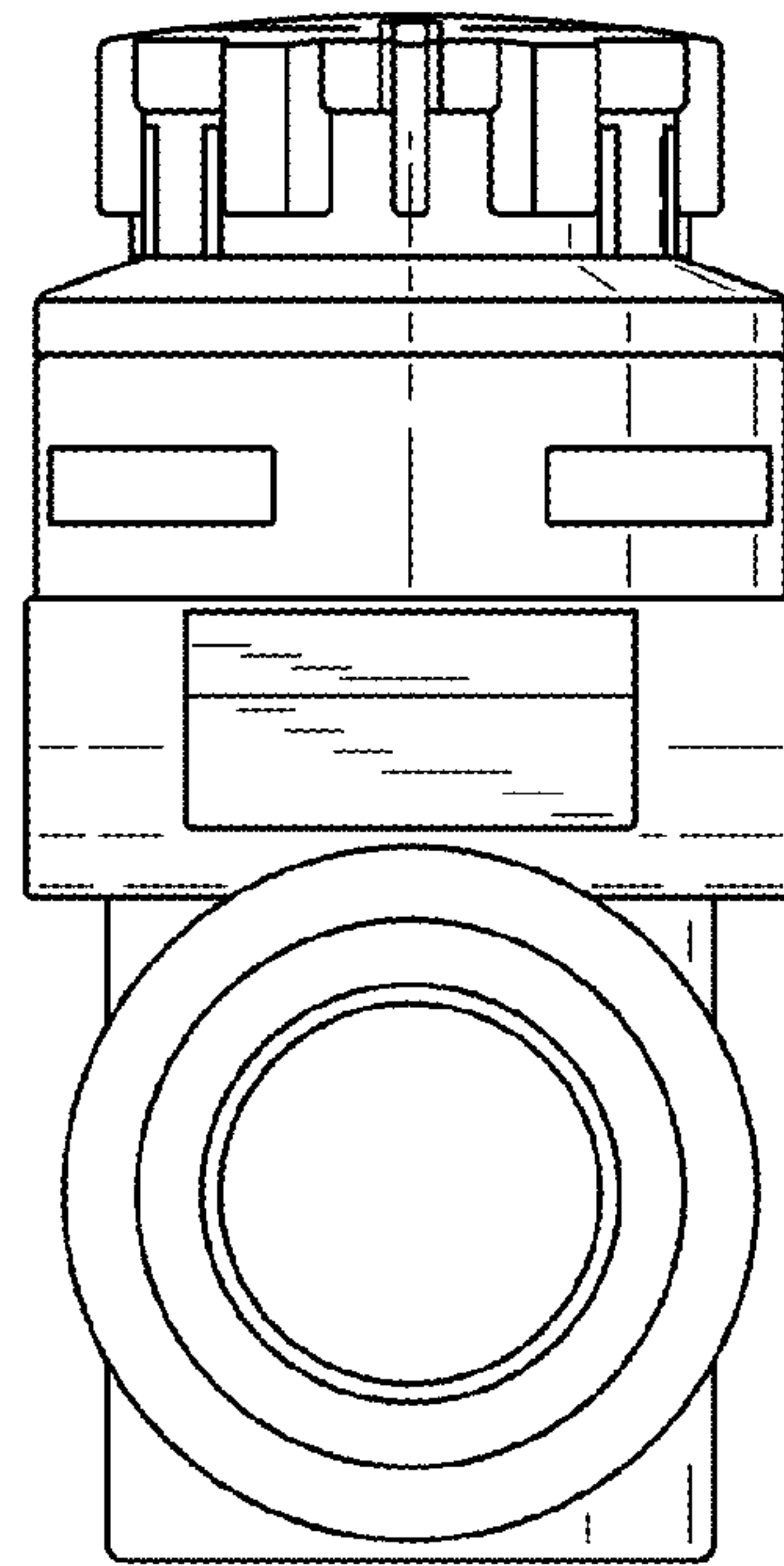


FIG. 42

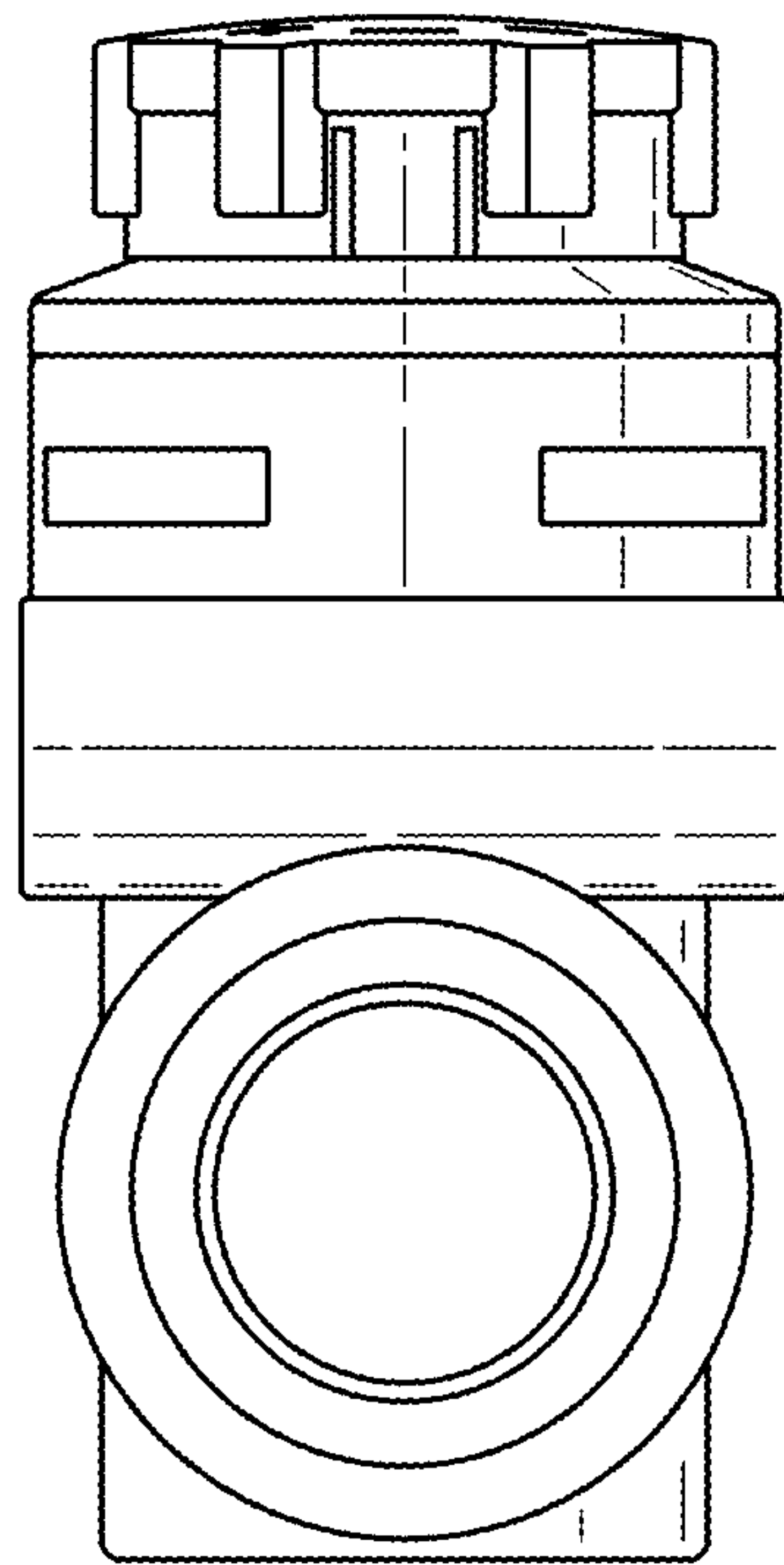


FIG. 43

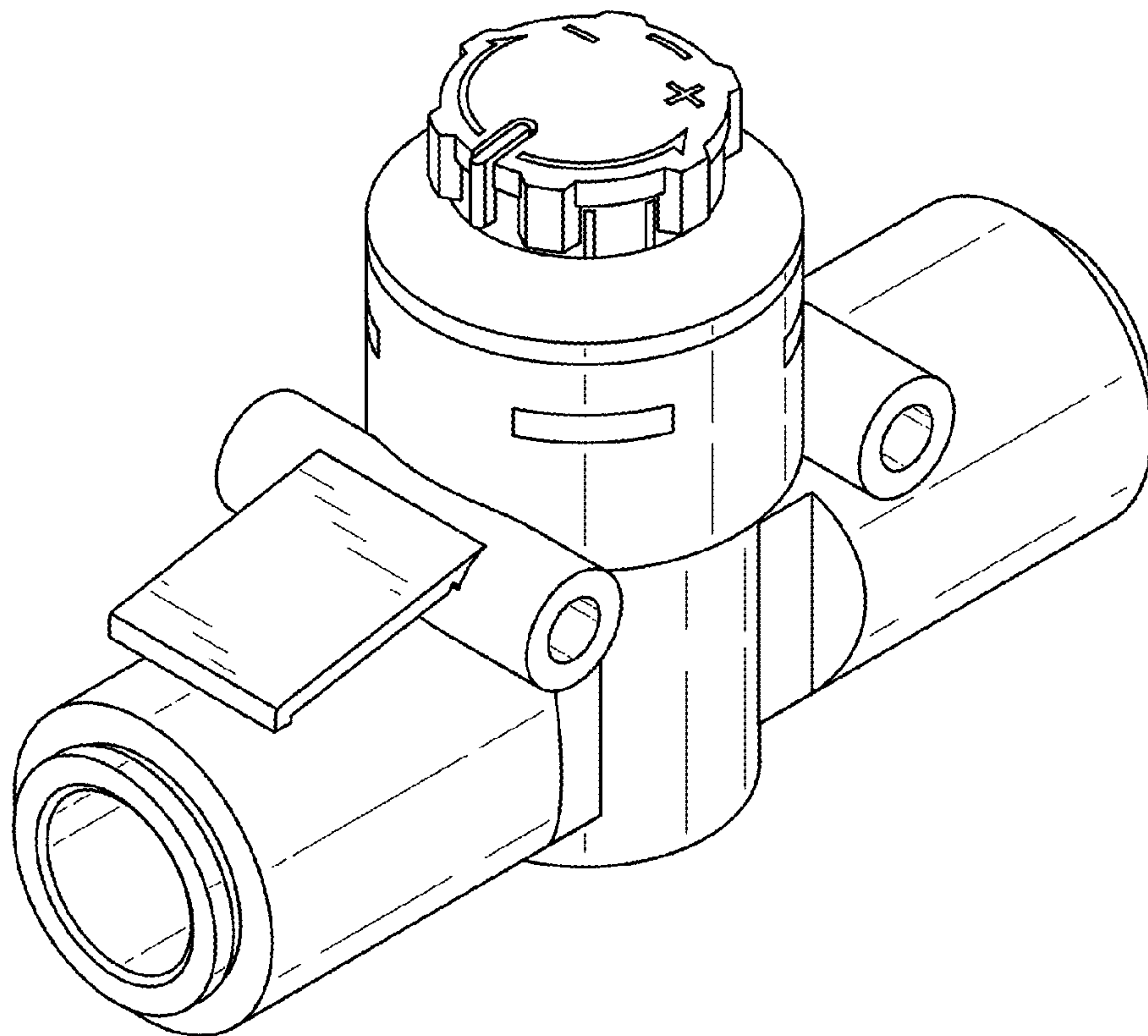


FIG. 44

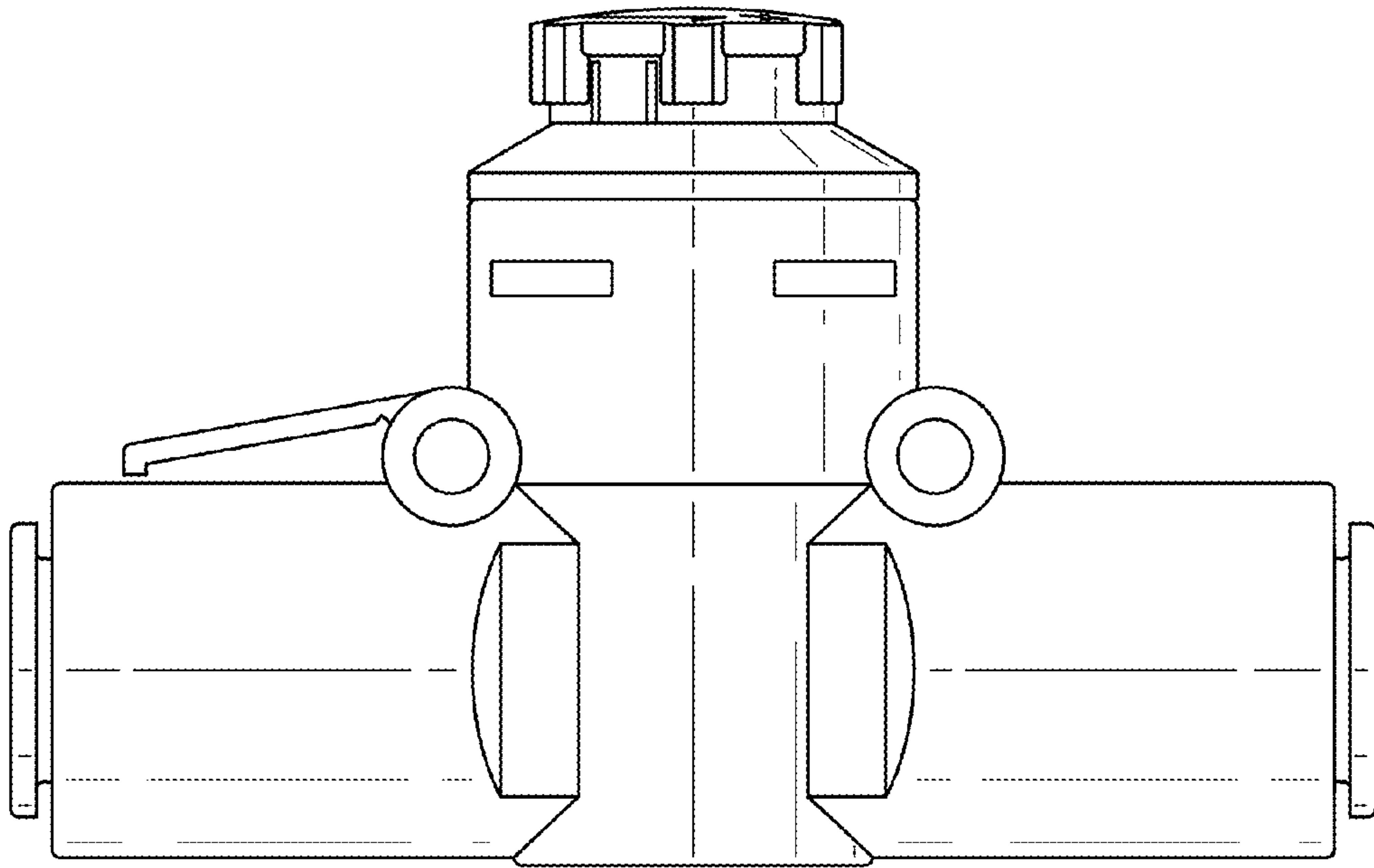


FIG. 45

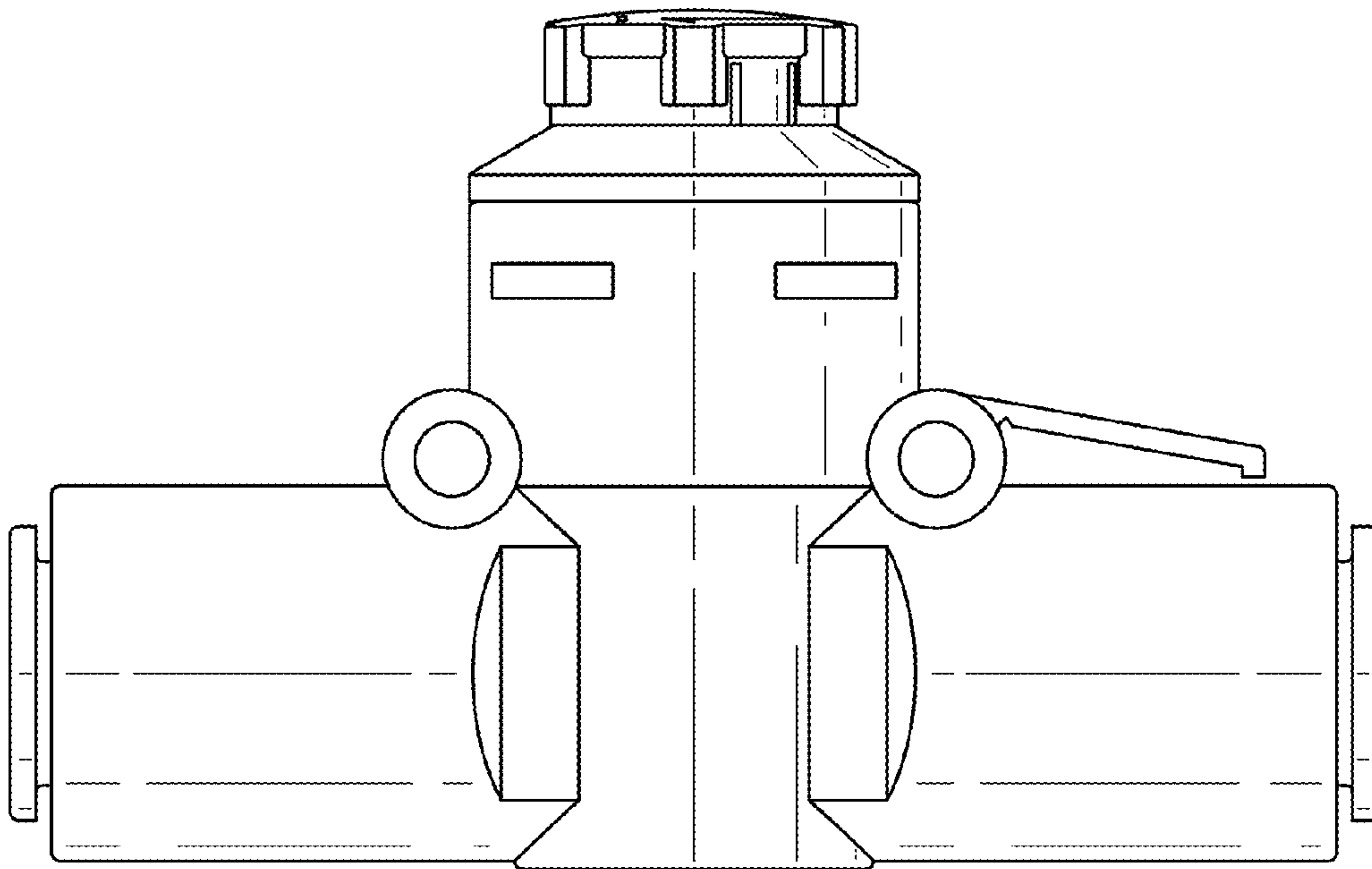


FIG. 46

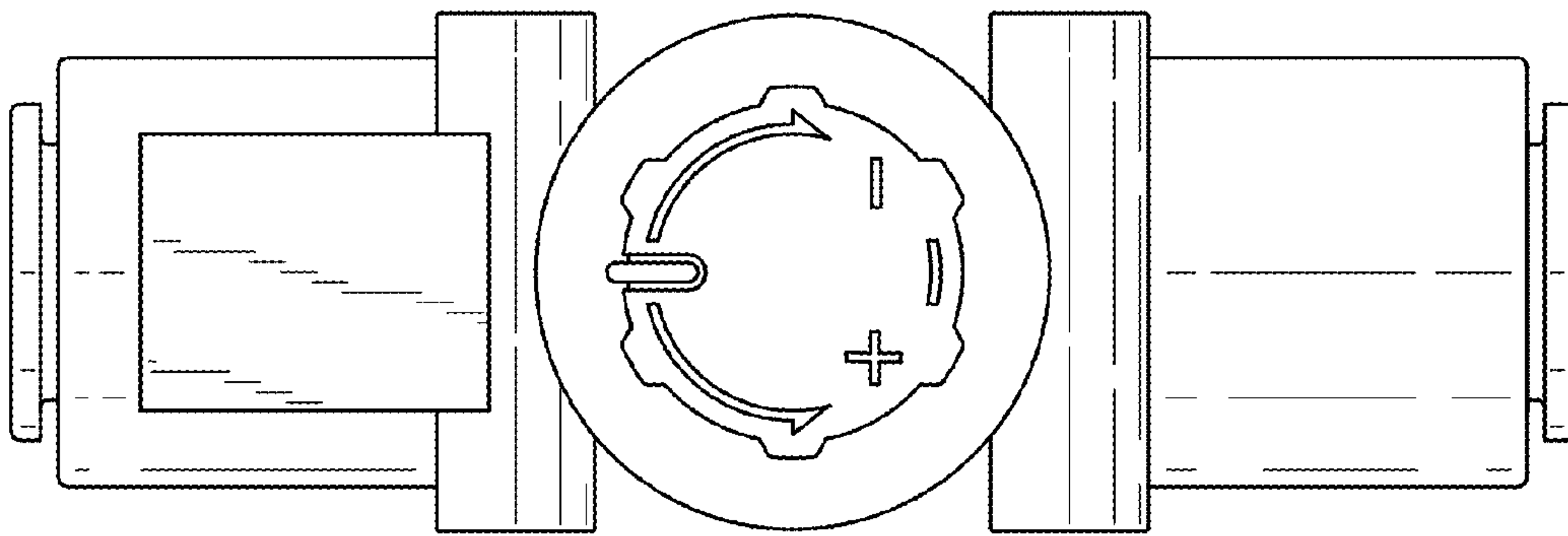


FIG. 47

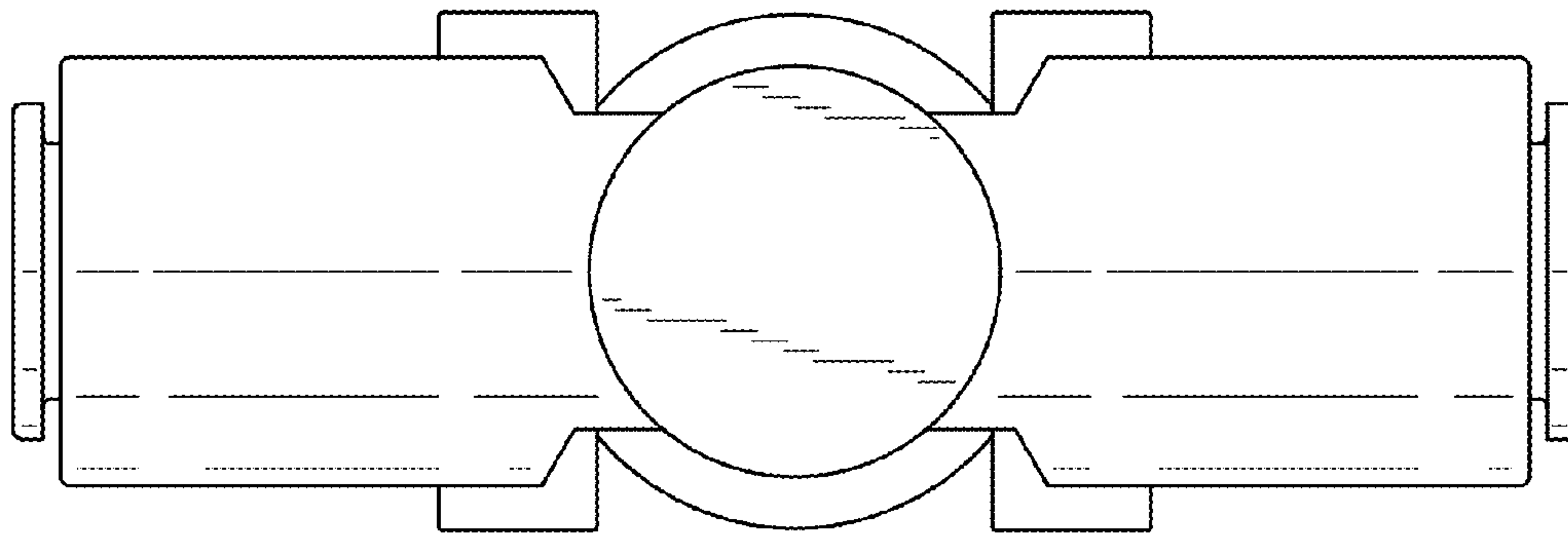


FIG. 48

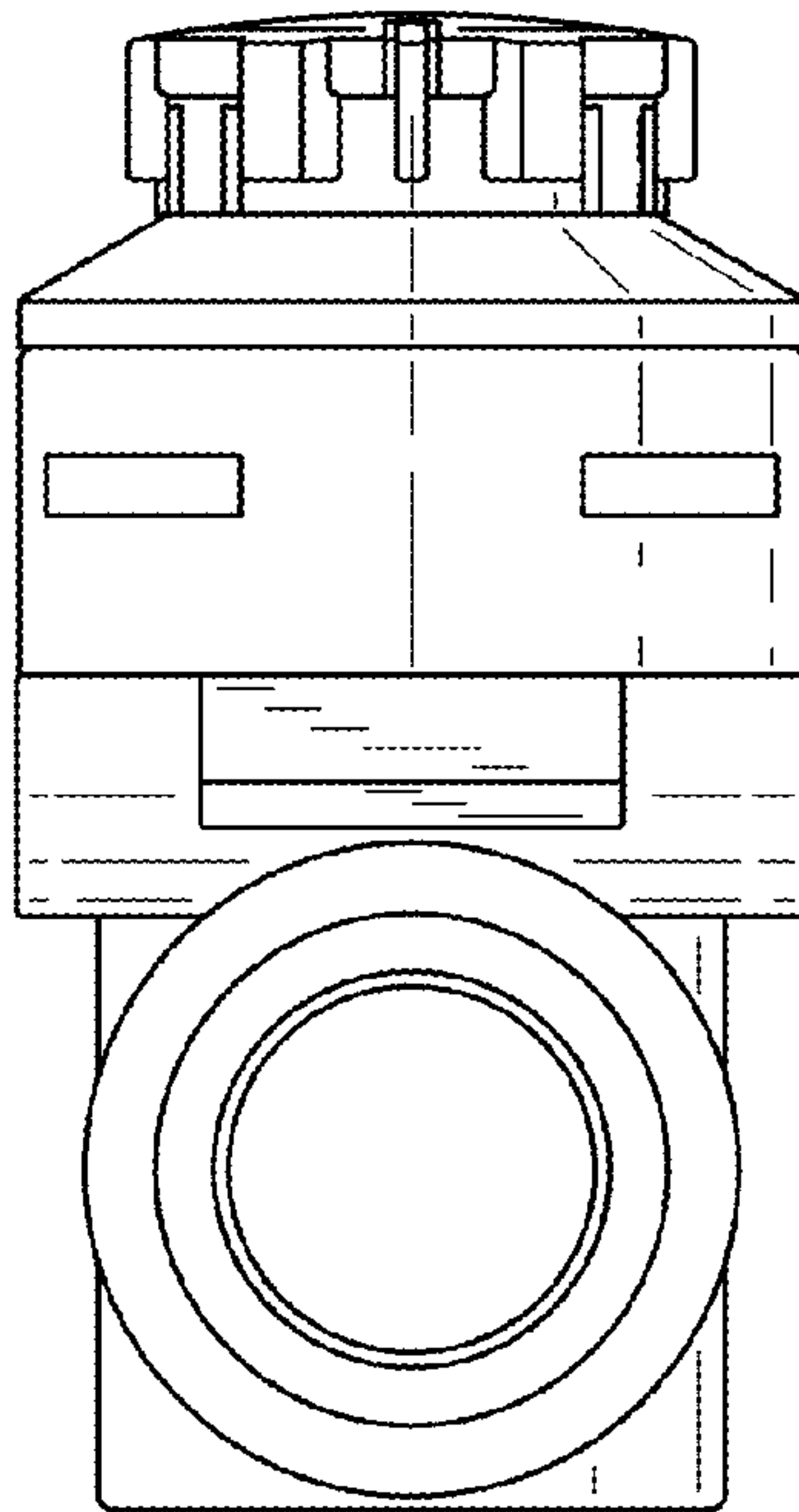


FIG. 49

