

Shueker

STALKECKE R

PROFUSION SYSTEM
COMPONENTS
Arrell / Saturn STAB

Eaton

1A 48312
1B 69030

1A 48257

1B 74535
1B 67193

← 1A 49988 R

Fairchild

1A 48240

1B 67713 (P4-4)

1B 64601 (P5-4)

Prepared by:
System Integration Group
Saturn Propulsion
18 April 1969

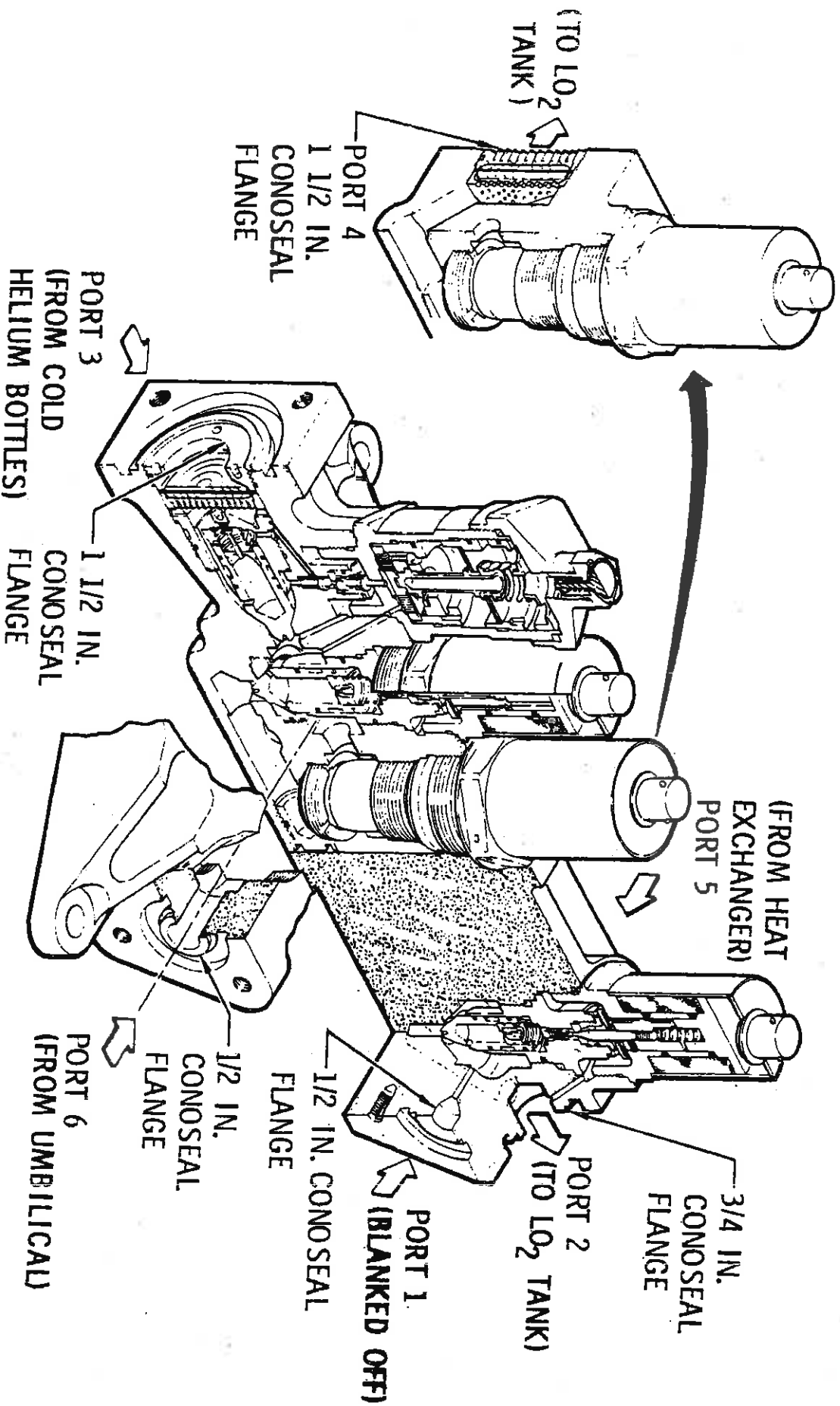
Revised: October 27, 1969
January 27, 1971
October 1, 1971

14" 80
16" 80

1A 49968 R
1A 49965 ?
1B 53920 ?
1A 49964 ?

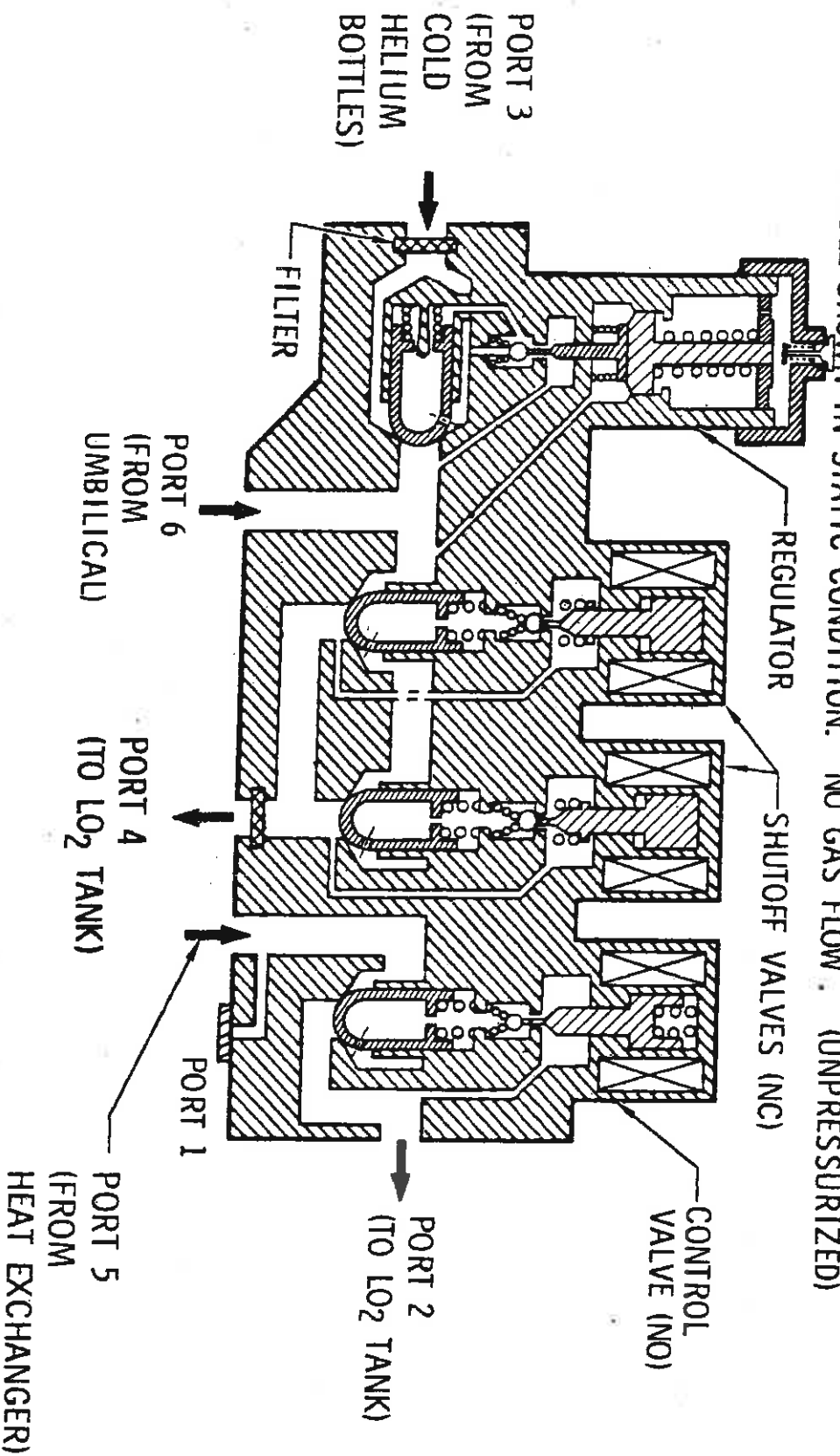
SECTION I
LOX SYSTEM

LOX TANK PRESSURIZATION CONTROL MODULE **1B42290**

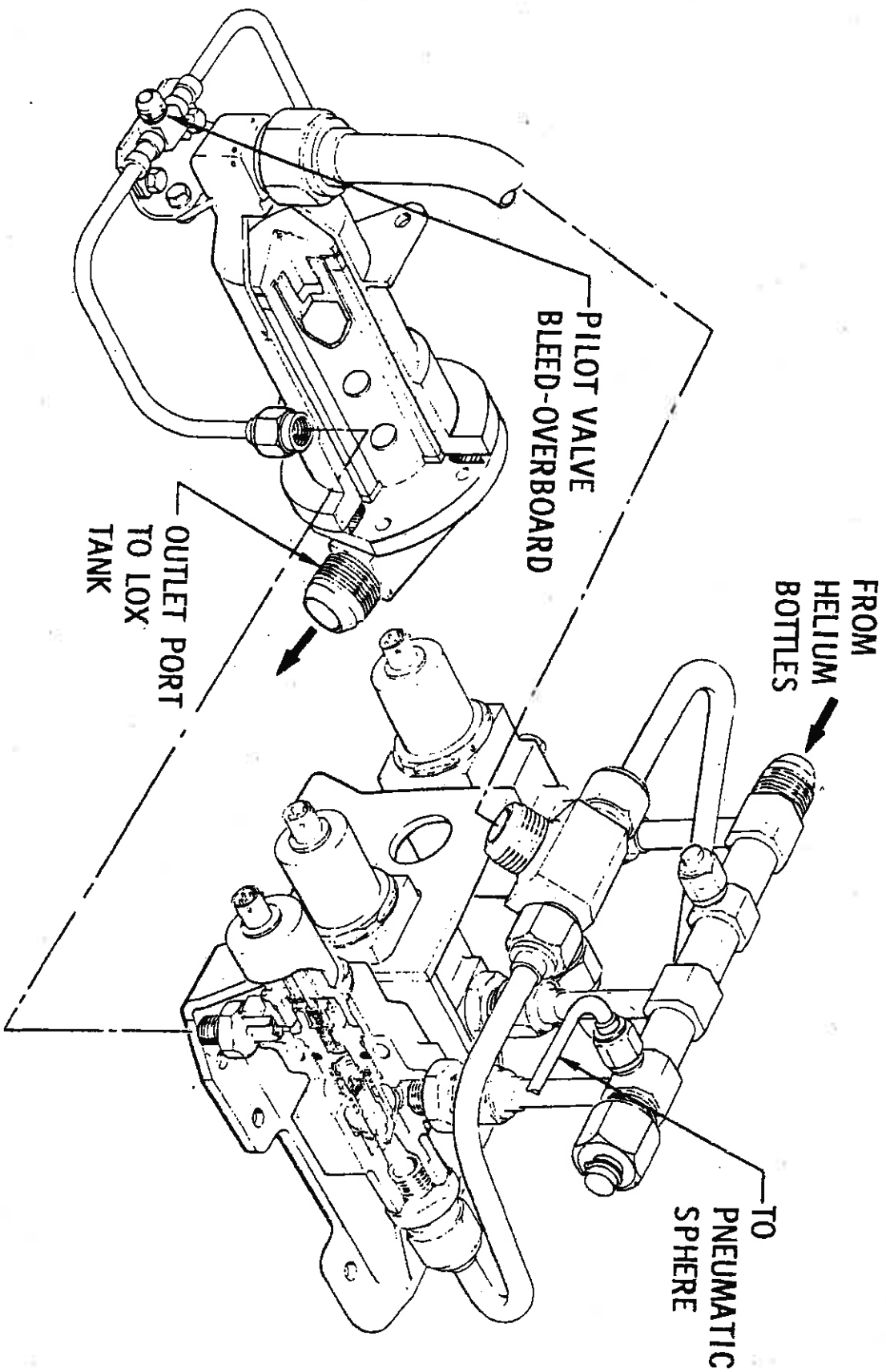


LOX TANK PRESSURIZATION CONTROL MODULE 1B42290 **(SCHEMATIC)**

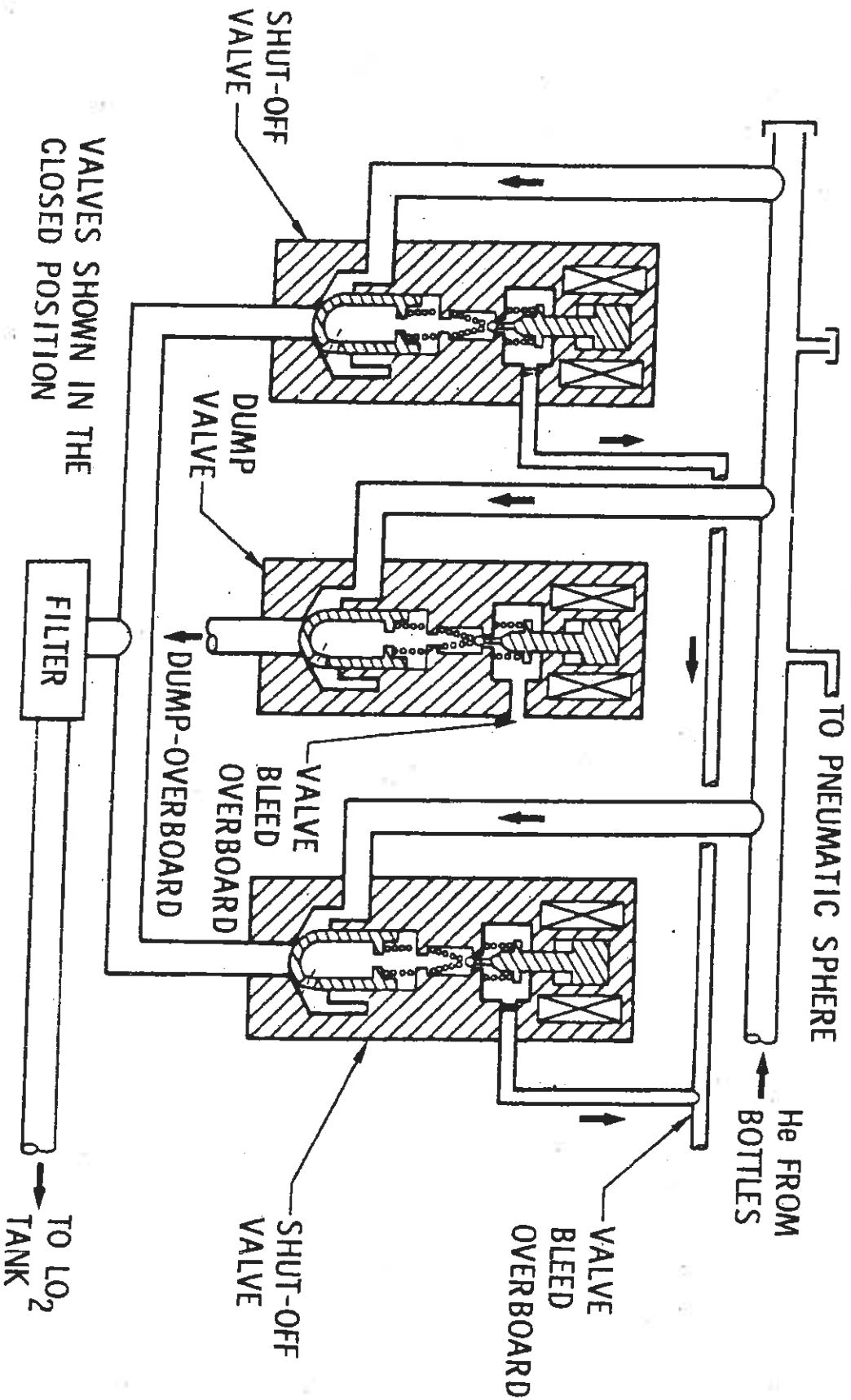
MODULE SHOWN IN STATIC CONDITION. NO GAS FLOW. (UNPRESSURIZED)



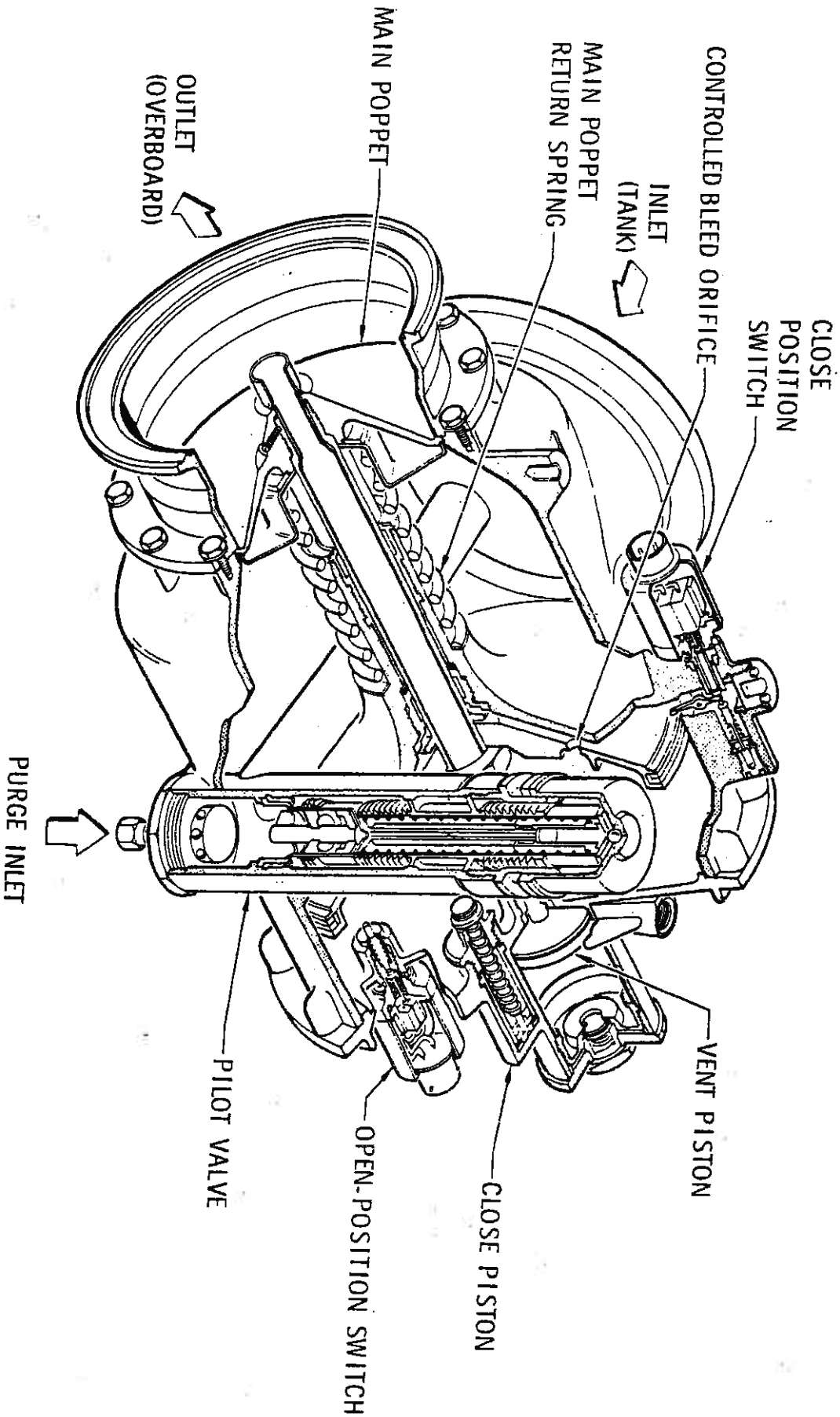
LOX TANK REPRESSURIZATION CONTROL MODULE 1B69550



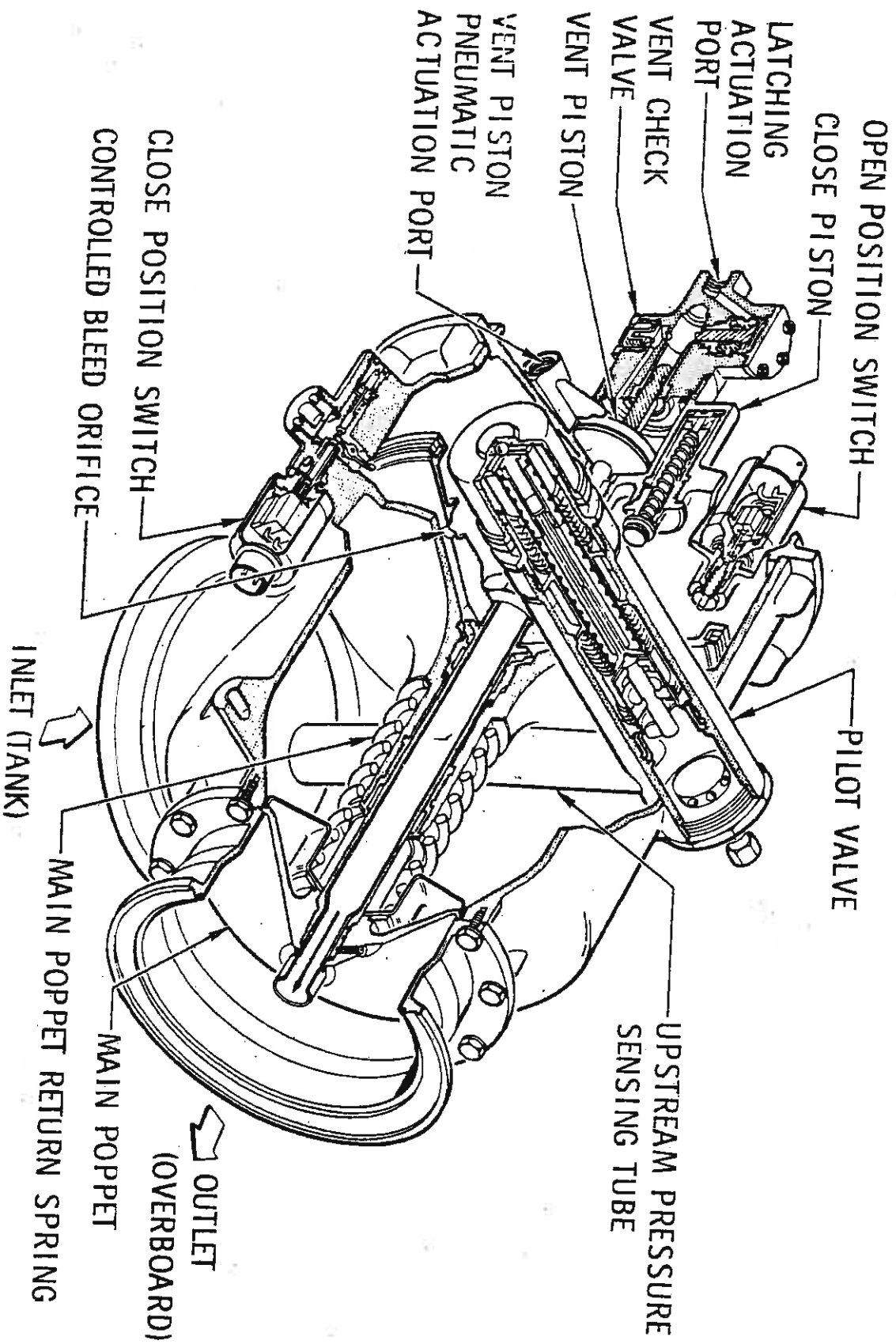
LOX TANK REPRESSURIZATION CONTROL MODULE (SCHEMATIC) 1B69550



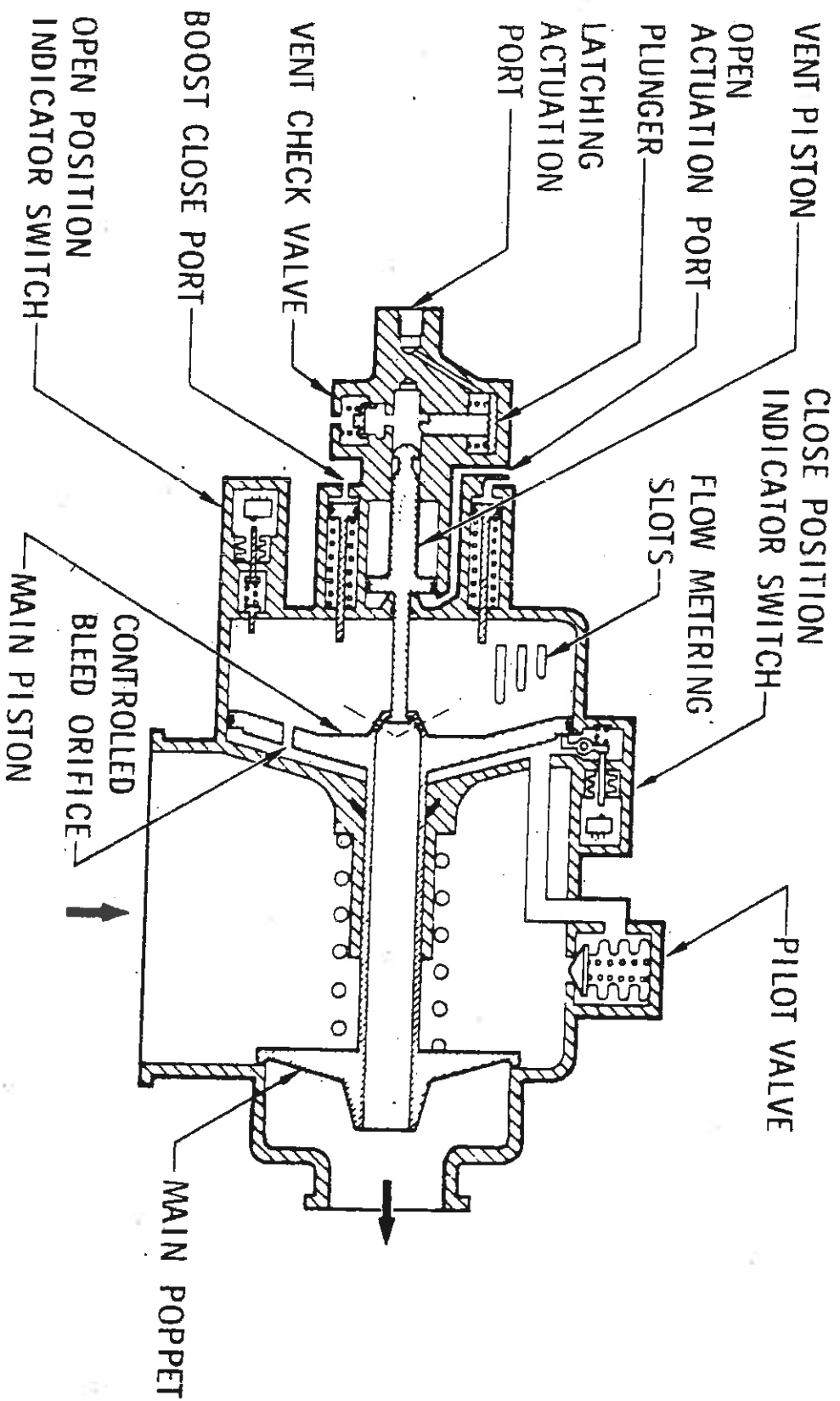
LOX TANK VENT AND RELIEF VALVE 1A48312



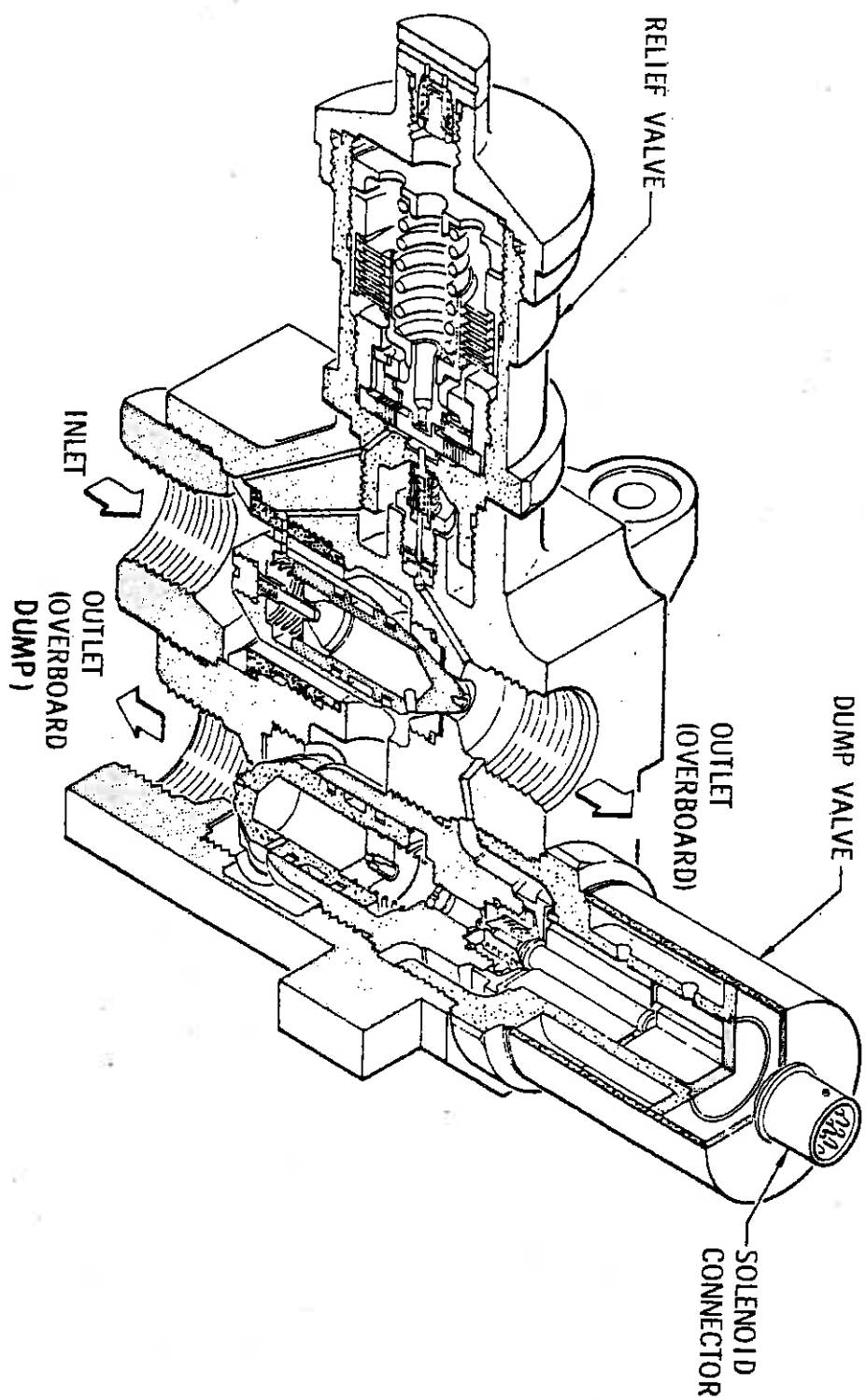
LOX NPV VALVE 1B69030



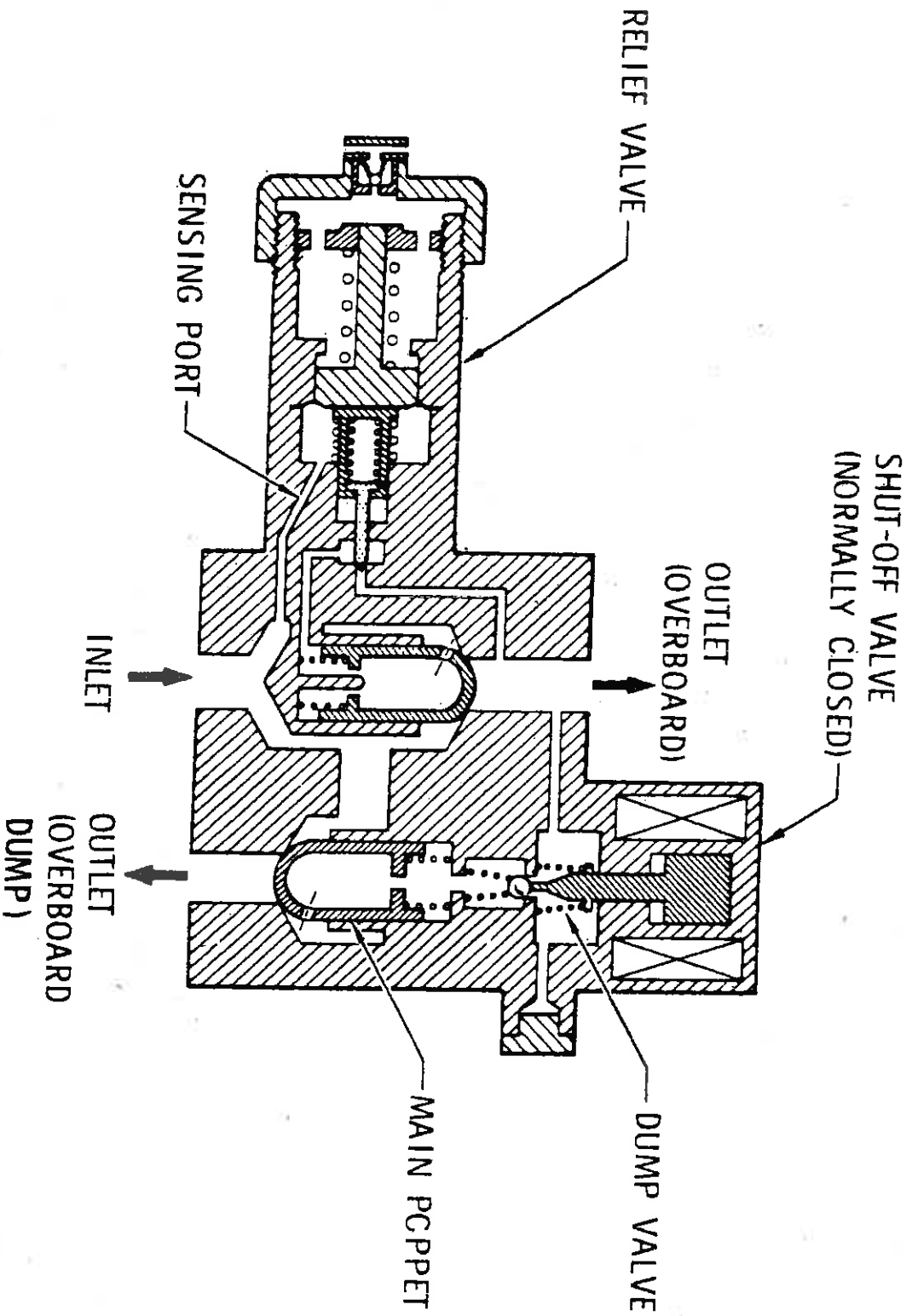
LOX NPV VALVE 1B69030 (SCHEMATIC)



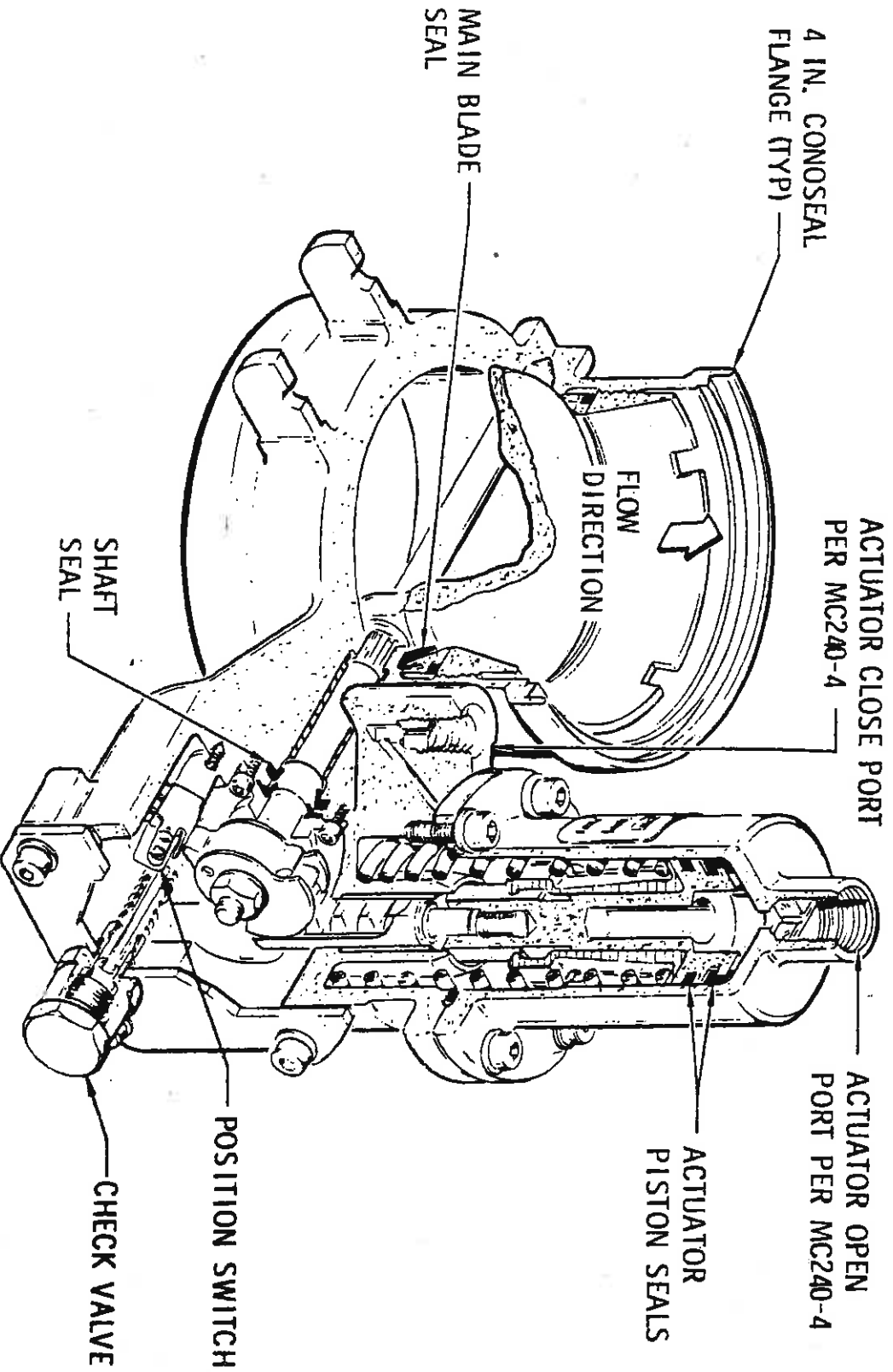
COLD HELIUM DUMP MODULE 1B57781



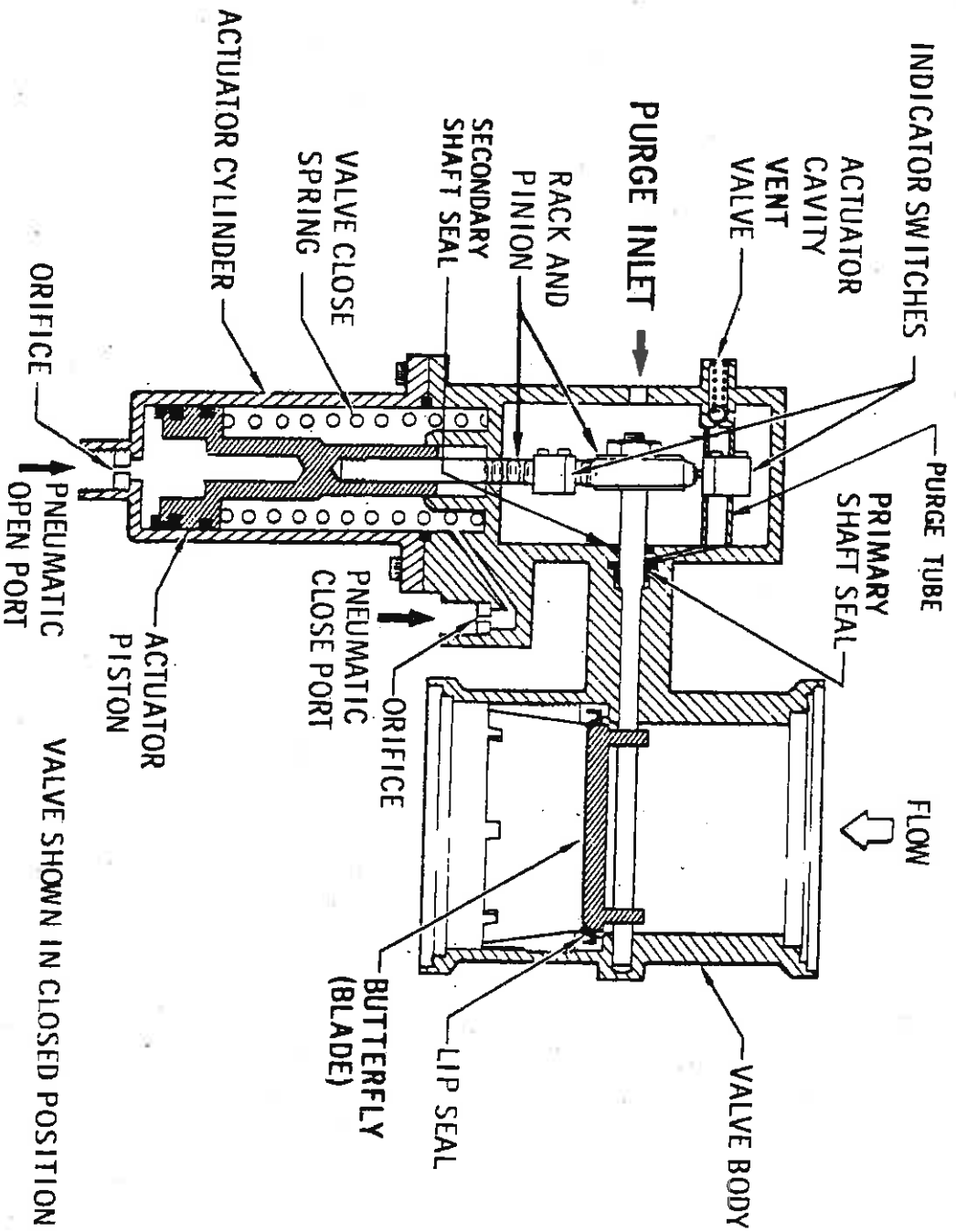
COLD HELIUM DUMP MODULE 1B57781 (SCHEMATIC)



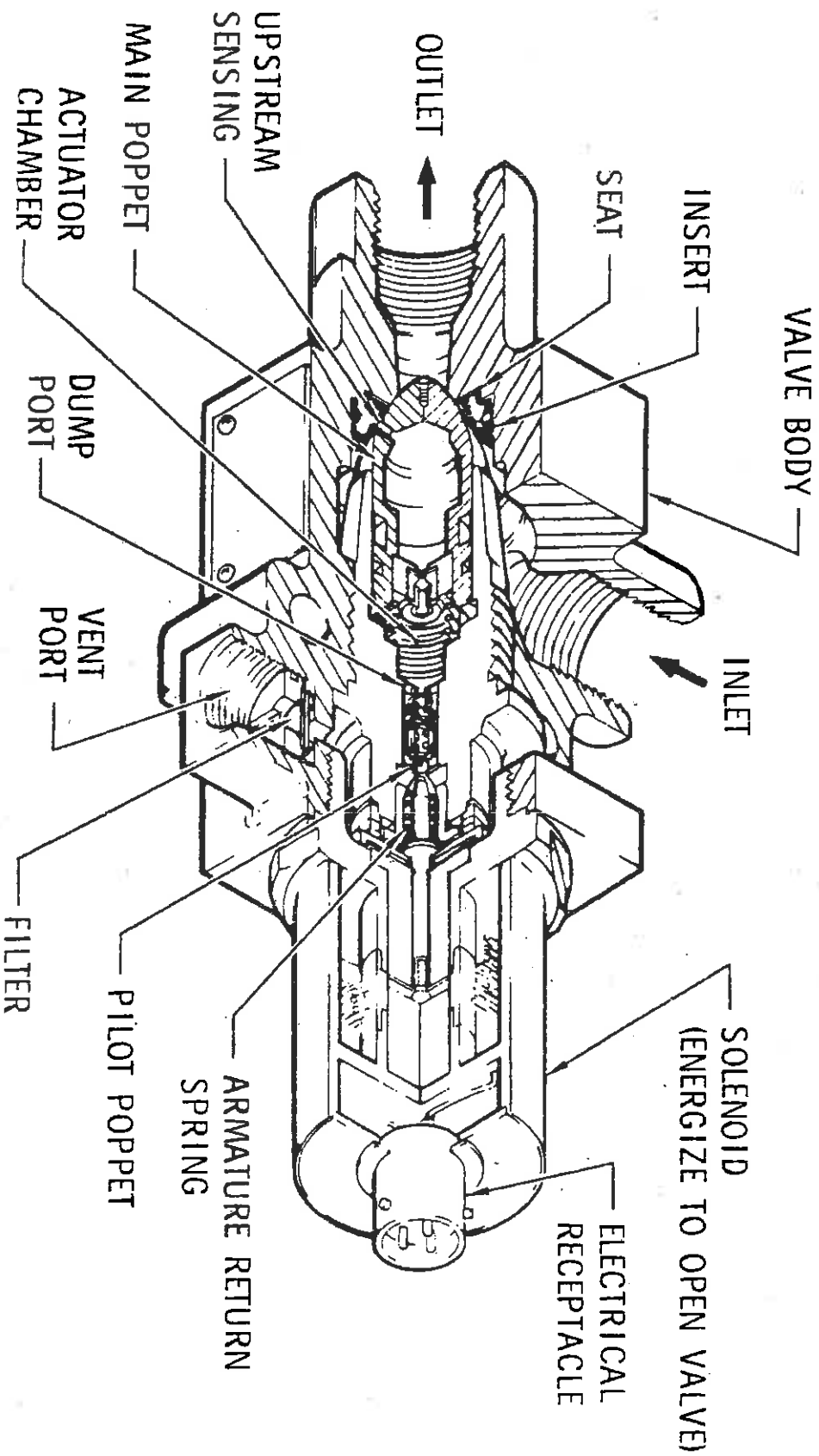
FILL AND DRAIN VALVE 1A48240



FILL AND DRAIN VALVE 1A48240 (SCHEMATIC)

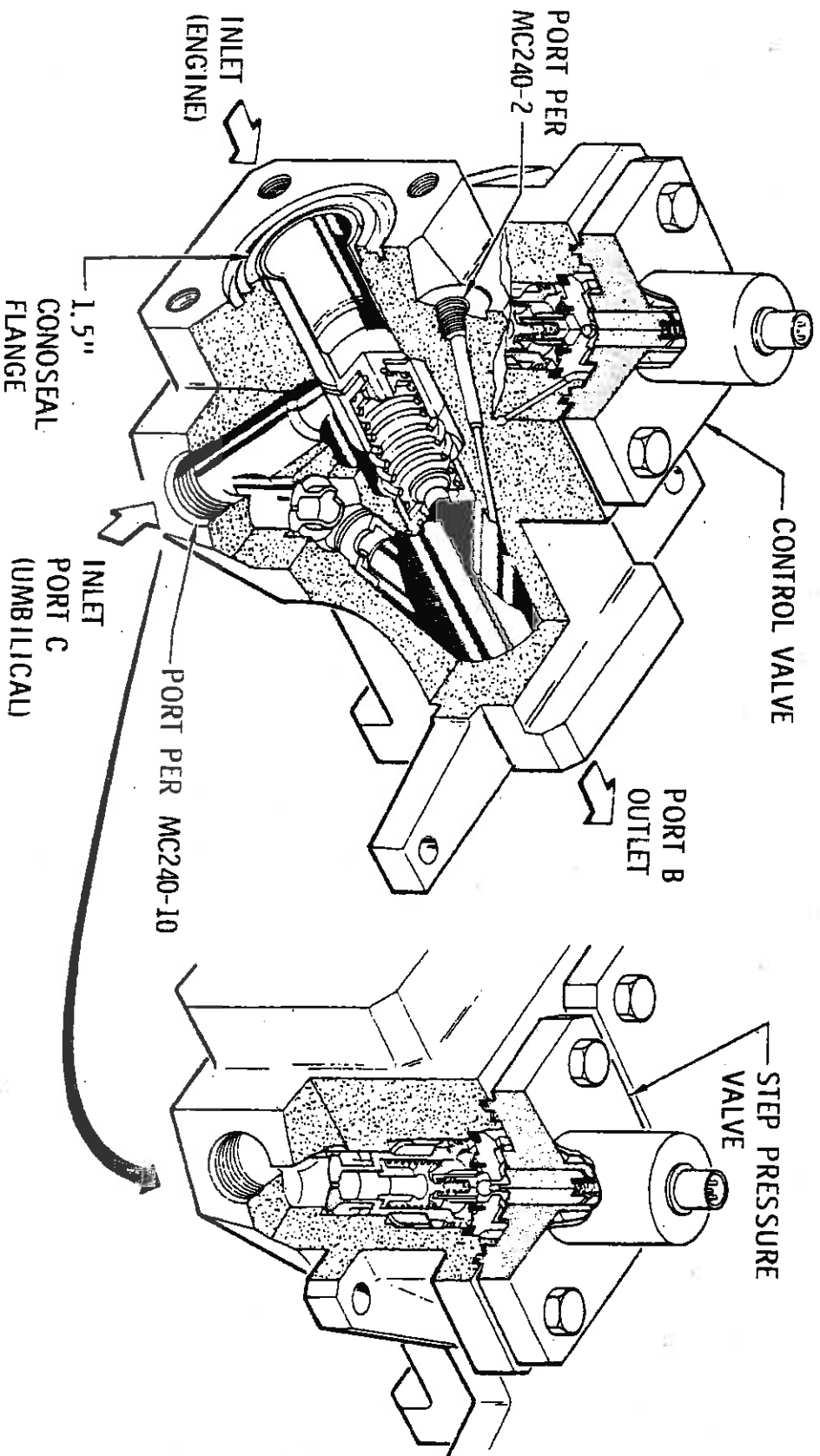


COLD HELIUM CONTROL SOLENOID VALVE 1B43660



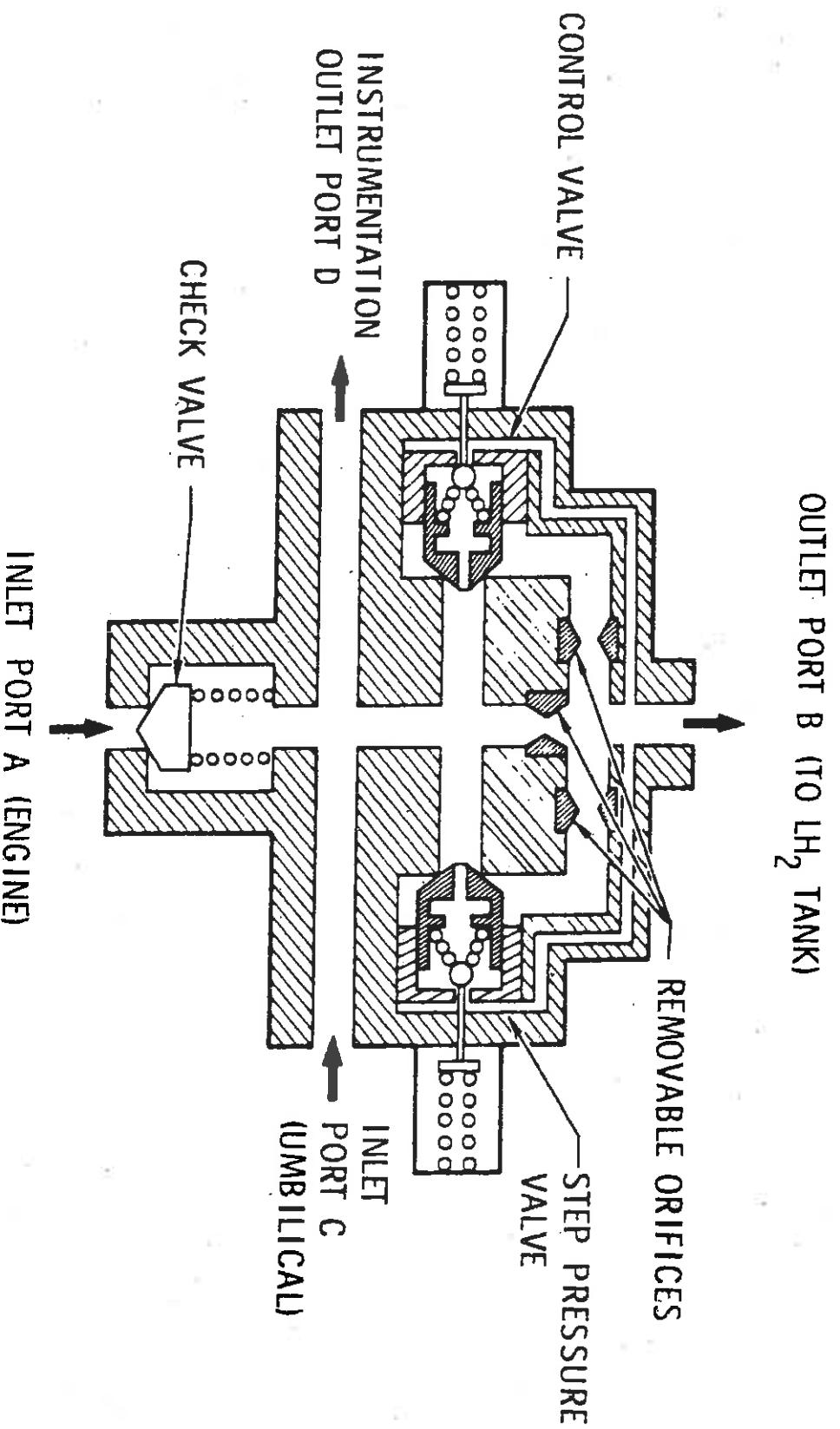
SECTION II
LH₂ SYSTEM

LH2 TANK PRESSURIZATION CONTROL MODULE ASSEMBLY 1B55200

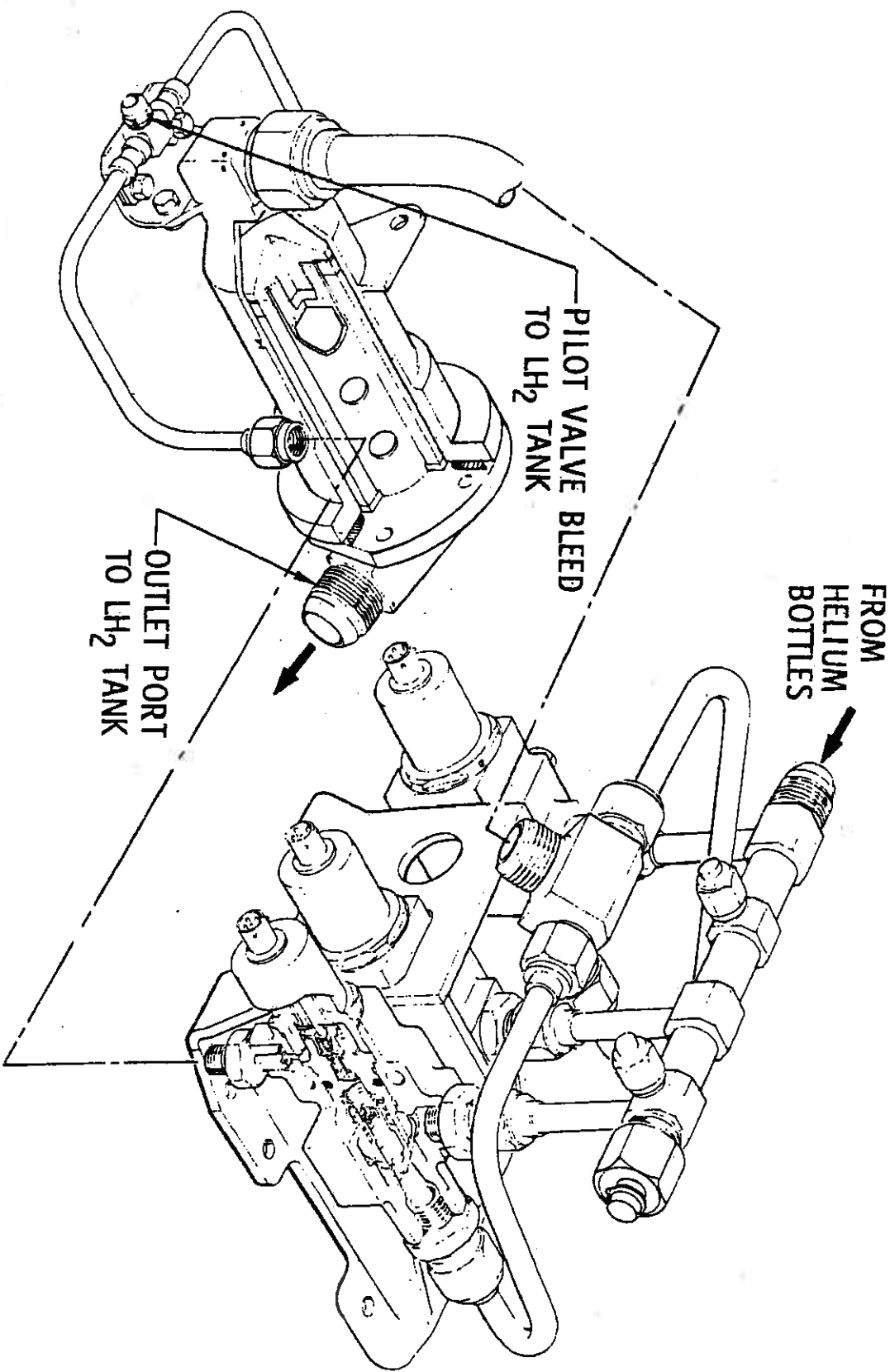


(STRAPS NOT SHOWN FOR CLARITY)

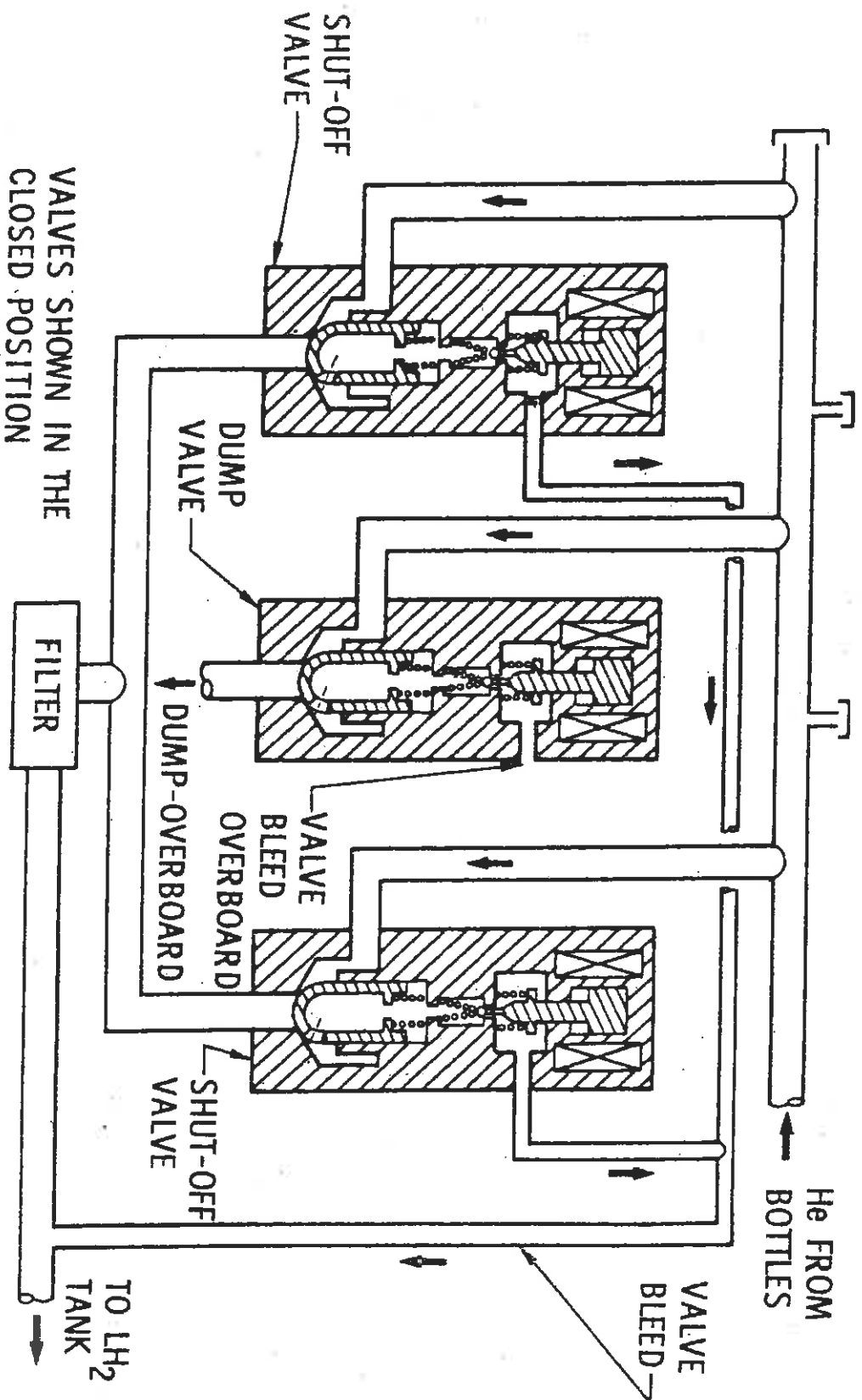
LH2 TANK PRESSURIZATION CONTROL MODULE ASSEMBLY 1B55200 (SCHEMATIC)



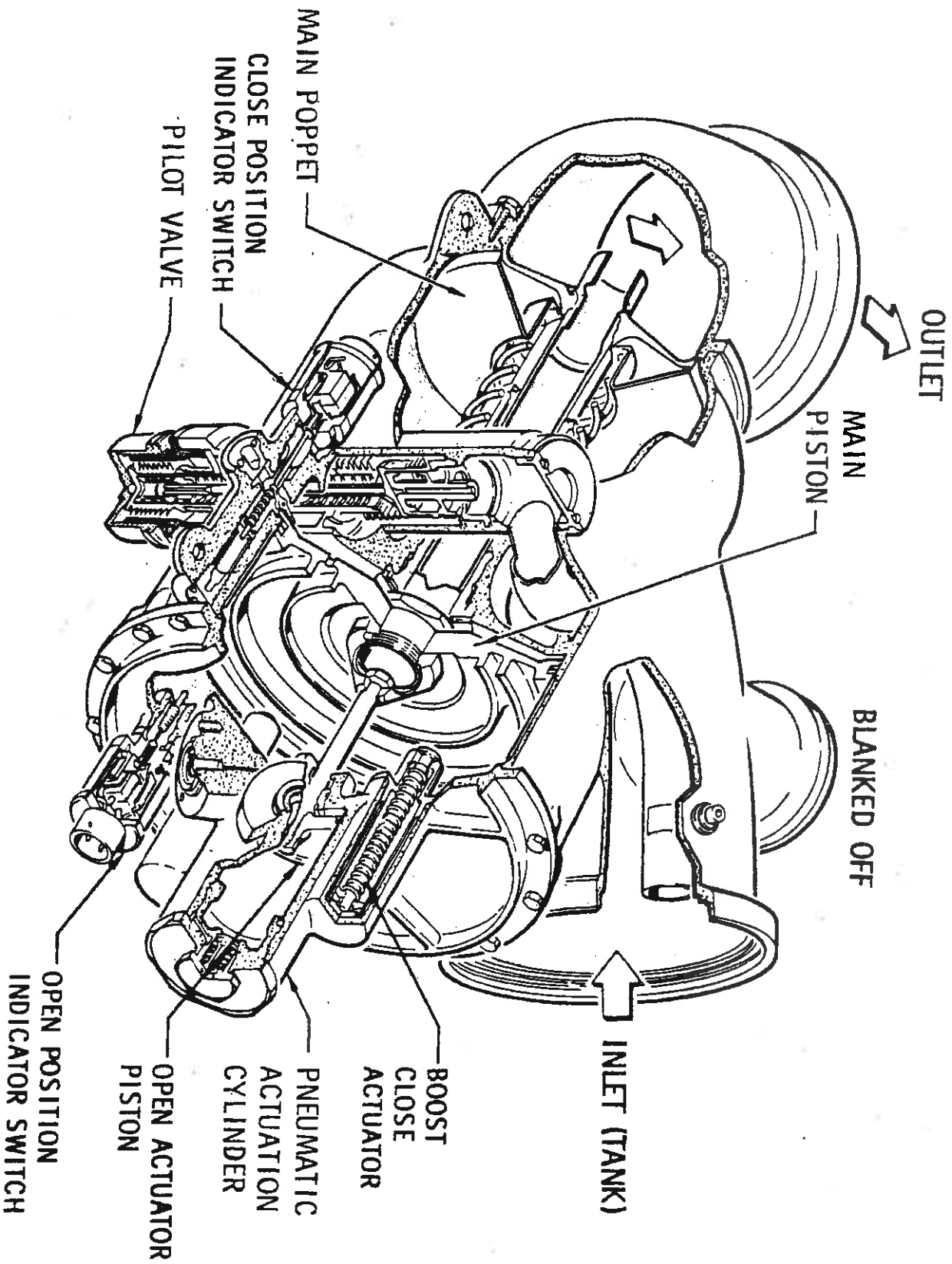
LH2 TANK REPRESSURIZATION CONTROL MODULE 1B69550



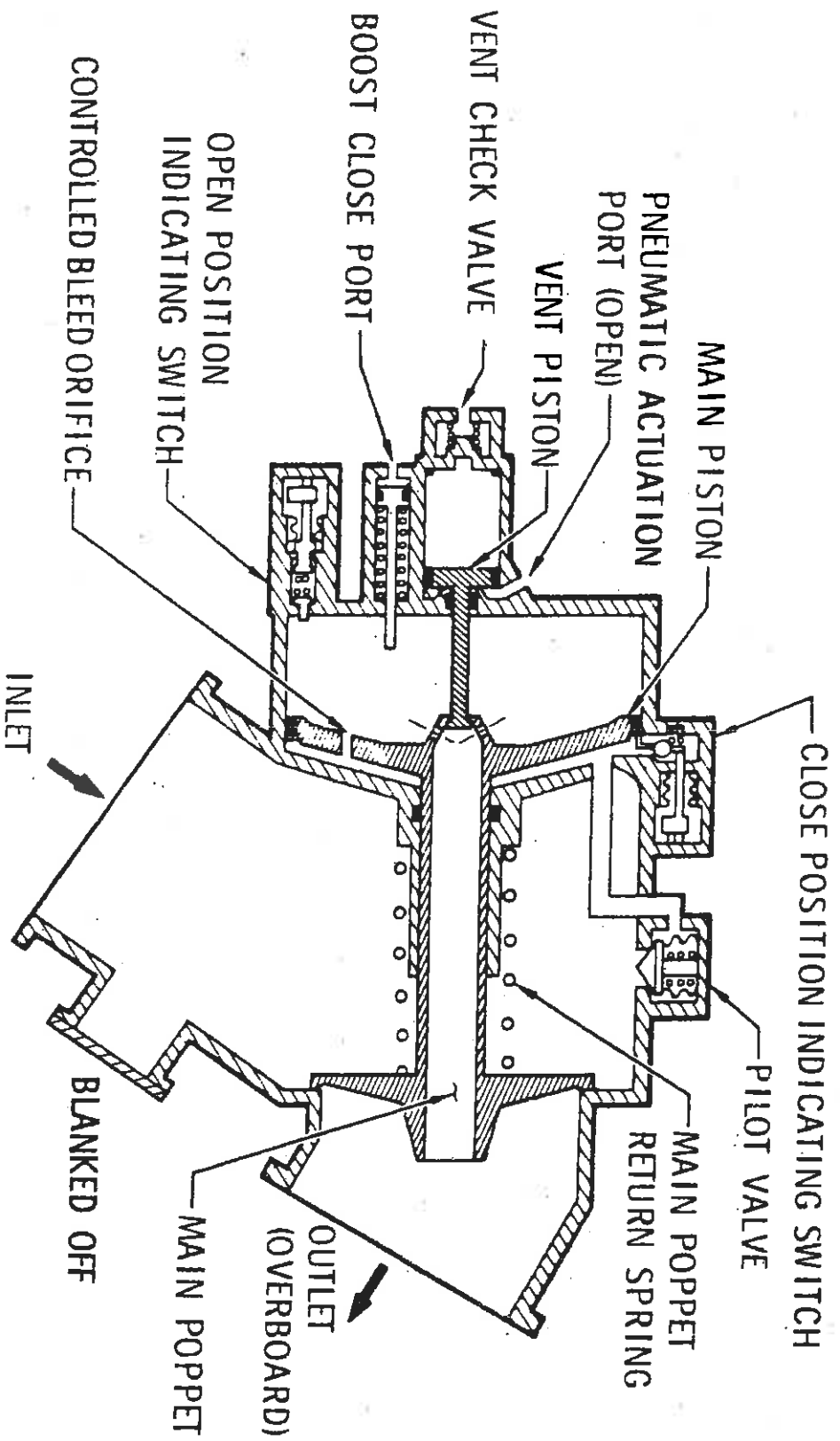
LH₂ TANK REPRESSURIZATION CONTROL MODULE (SCHEMATIC) 1B69550



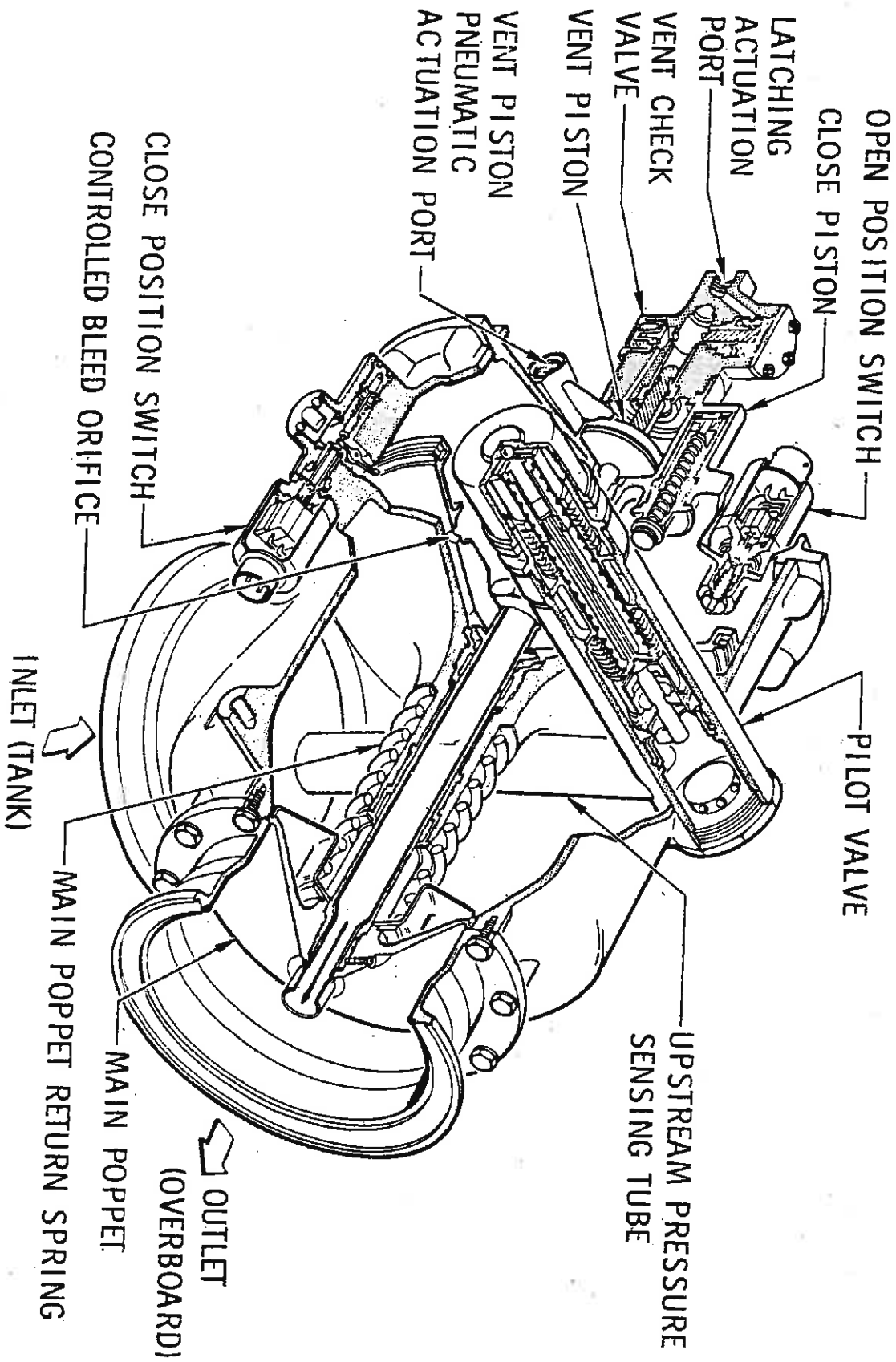
LH2 VENT AND RELIEF VALVE 1A48257



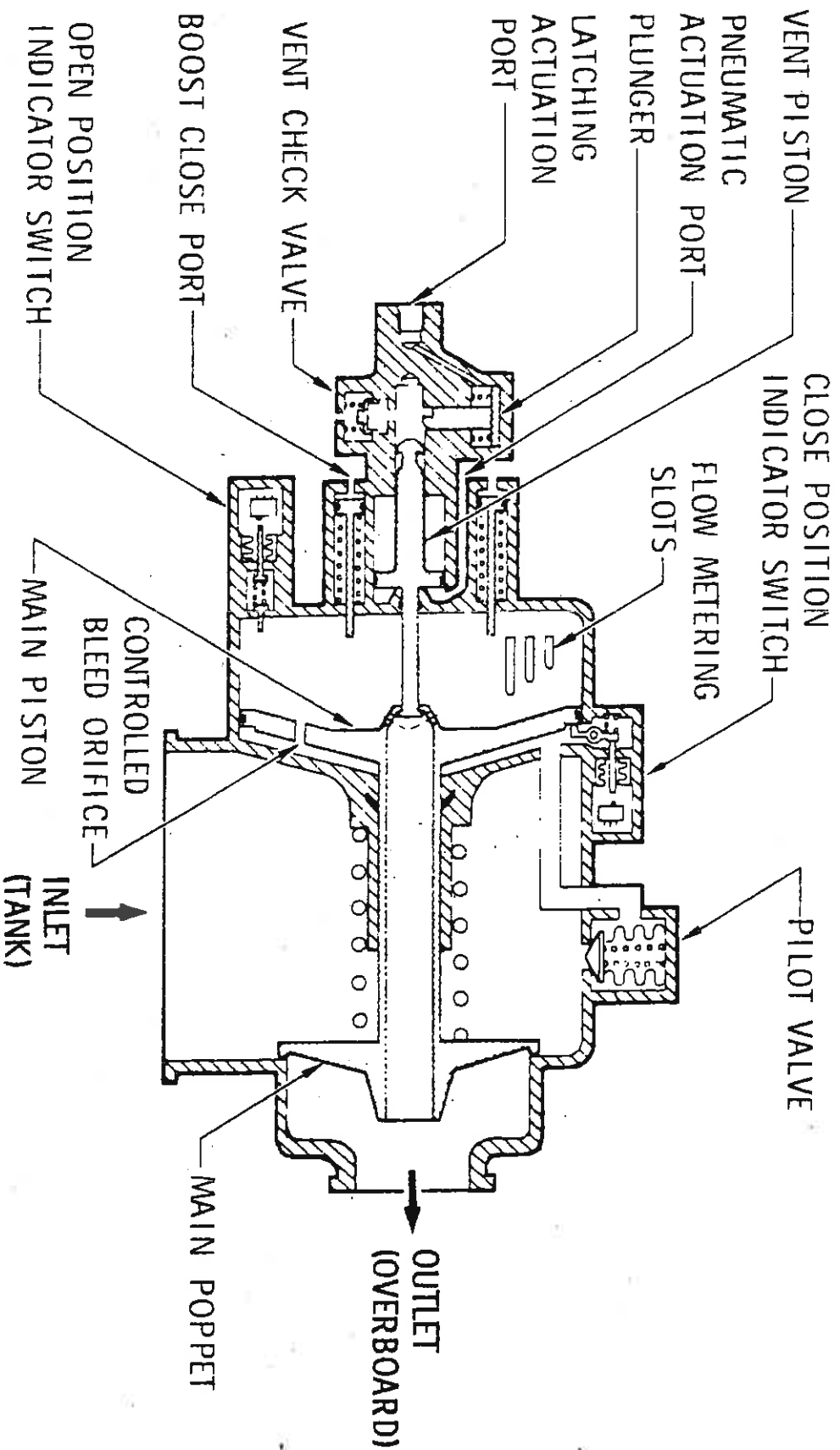
LH2 VENT AND RELIEF VALVE 1A48257 (SCHEMATIC)



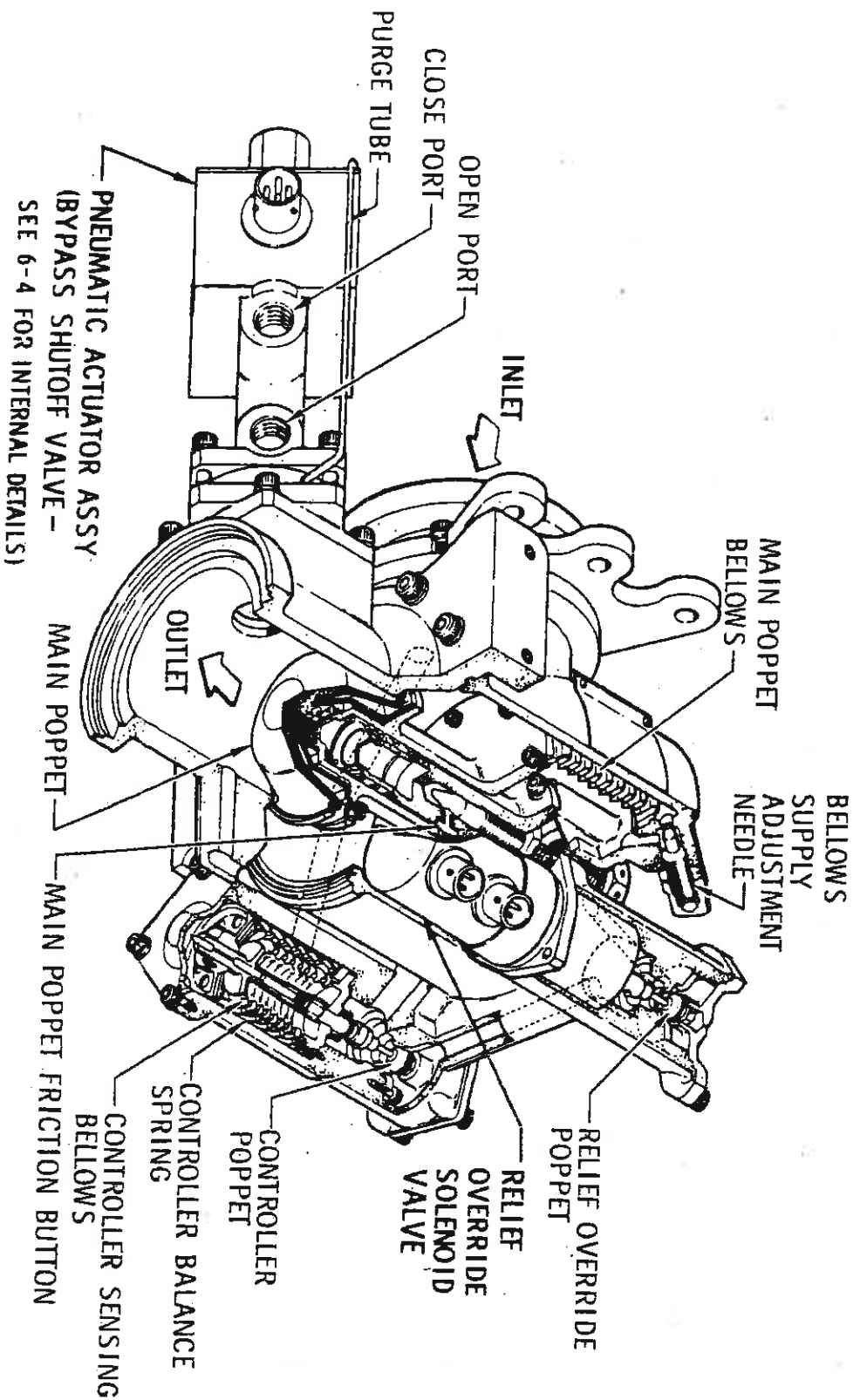
LH2 LATCHING VENT AND RELIEF VALVE 1B74535



LH2 LATCHING VENT AND RELIEF VALVE 1B74535 (SCHEMATIC)

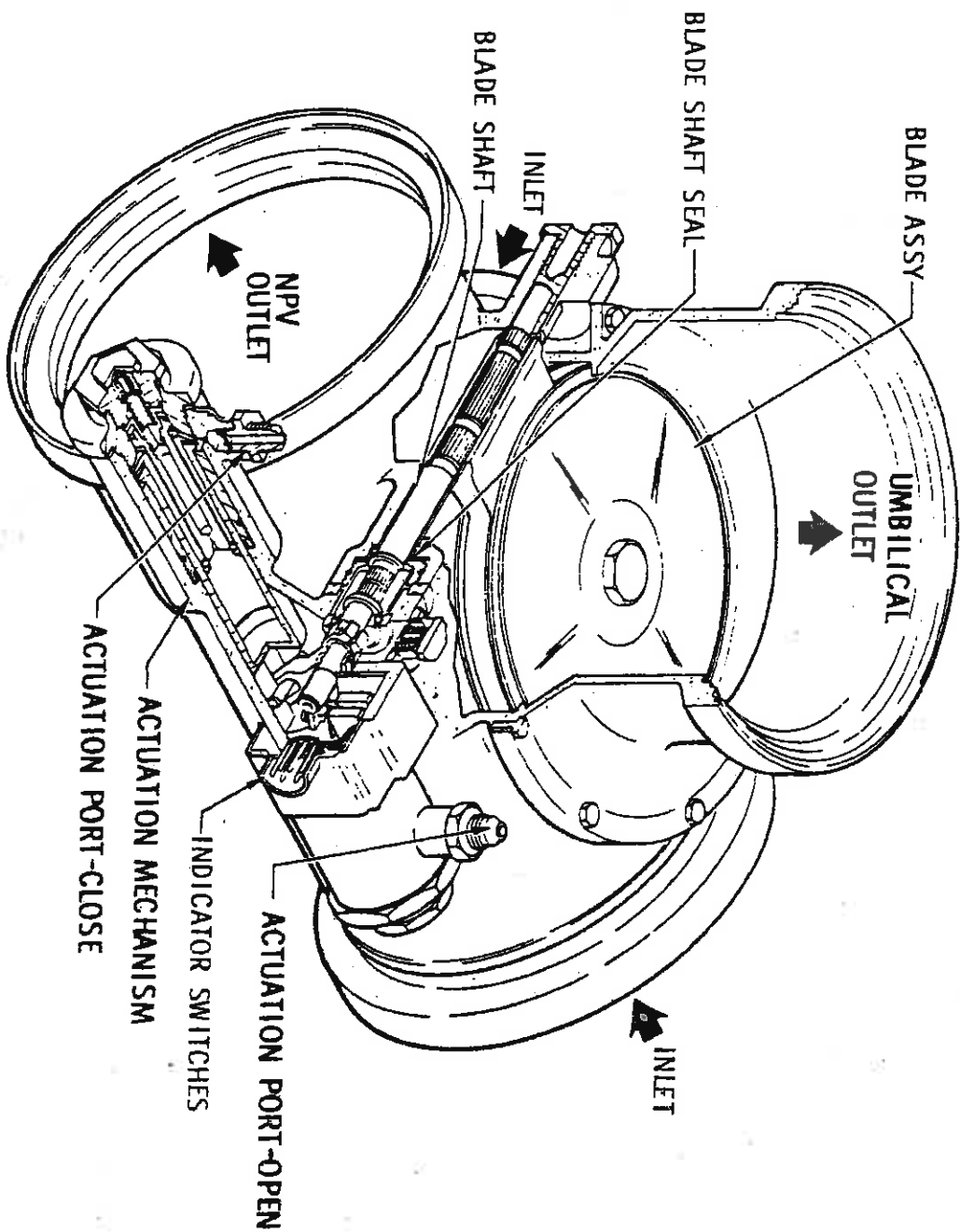


LH2 CONTINUOUS VENT MODULE ASSEMBLY 1B67193

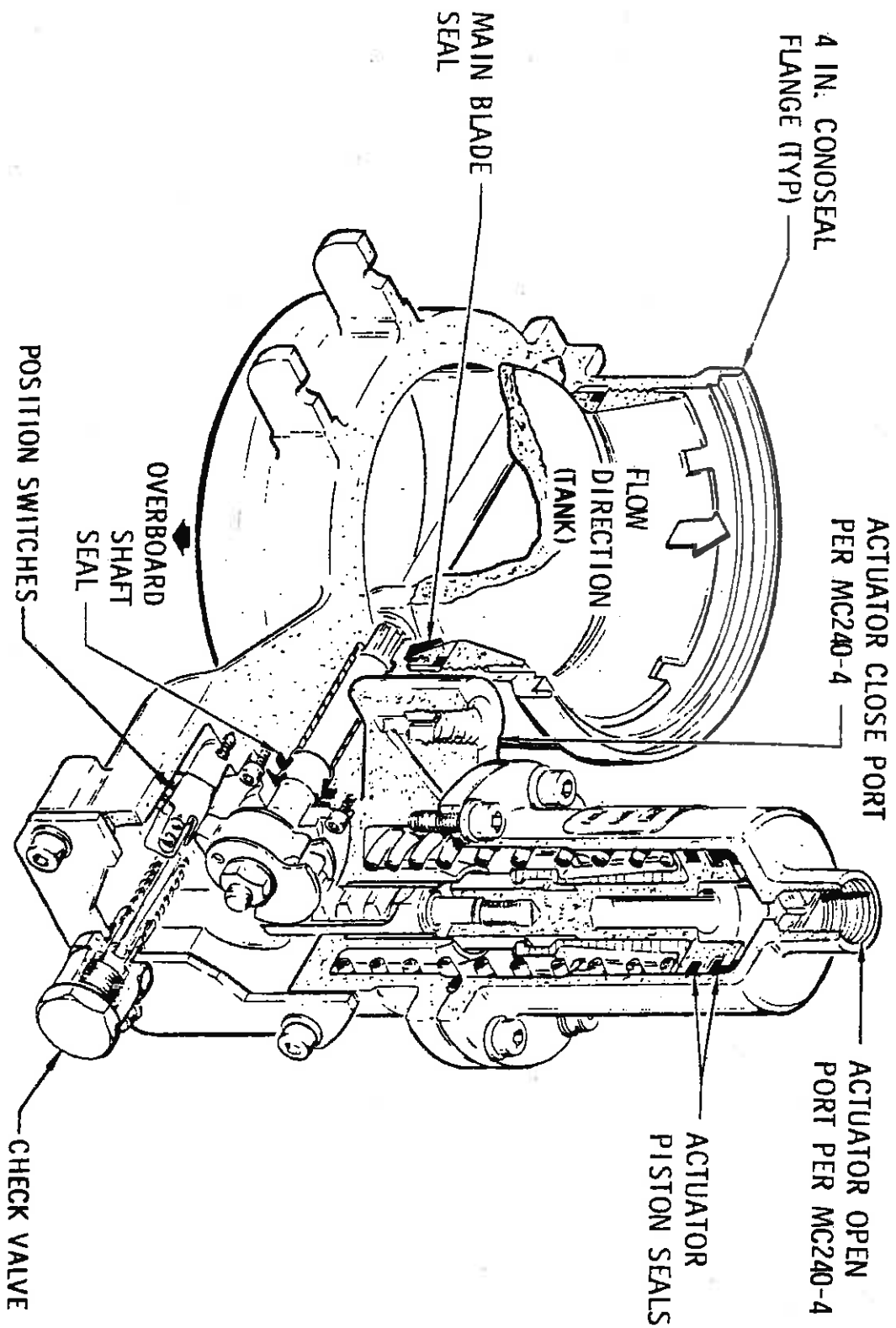


LH2 TANK VENT DIRECTIONAL CONTROL VALVE

1A49988



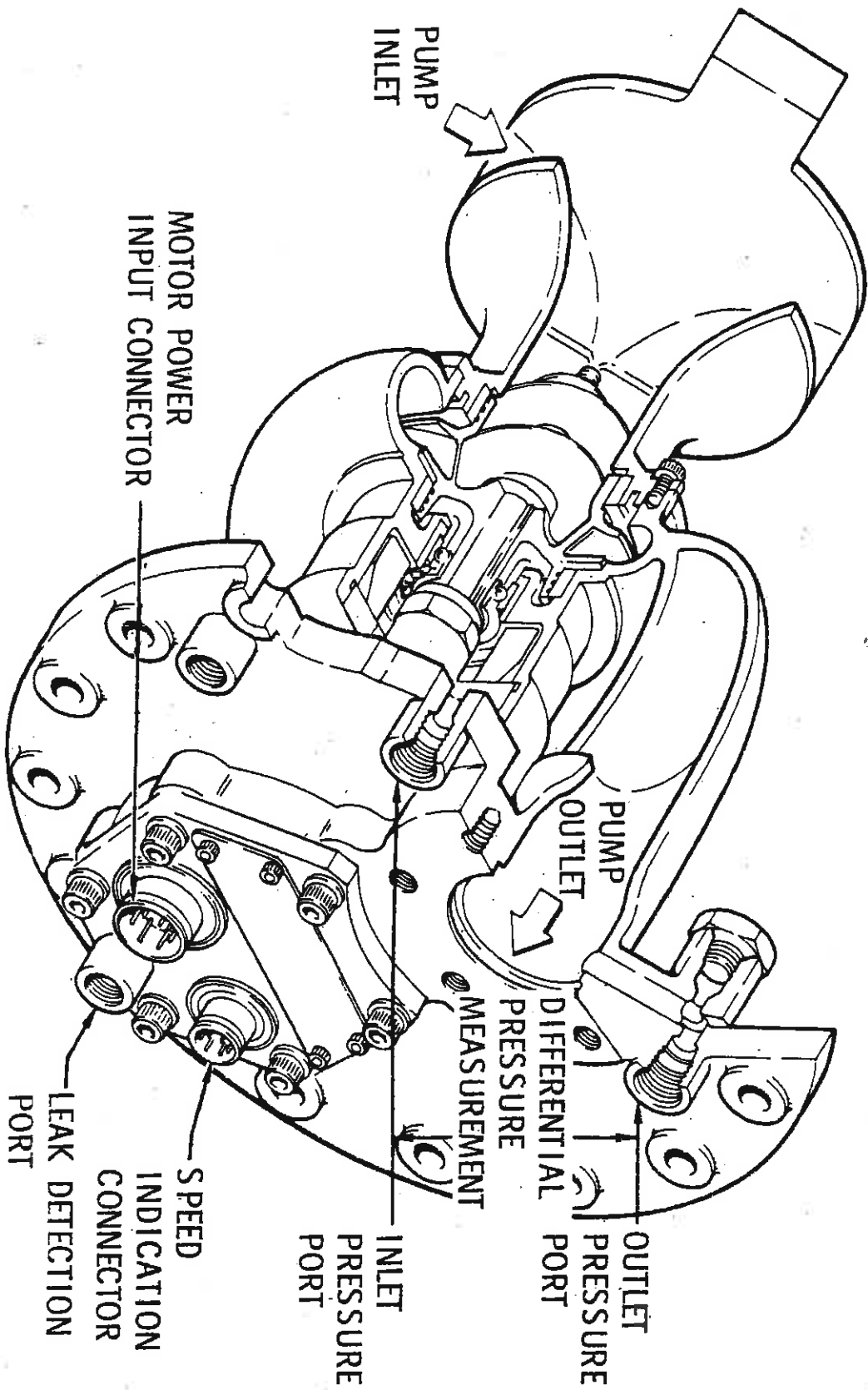
FILL AND DRAIN VALVE 1A48240



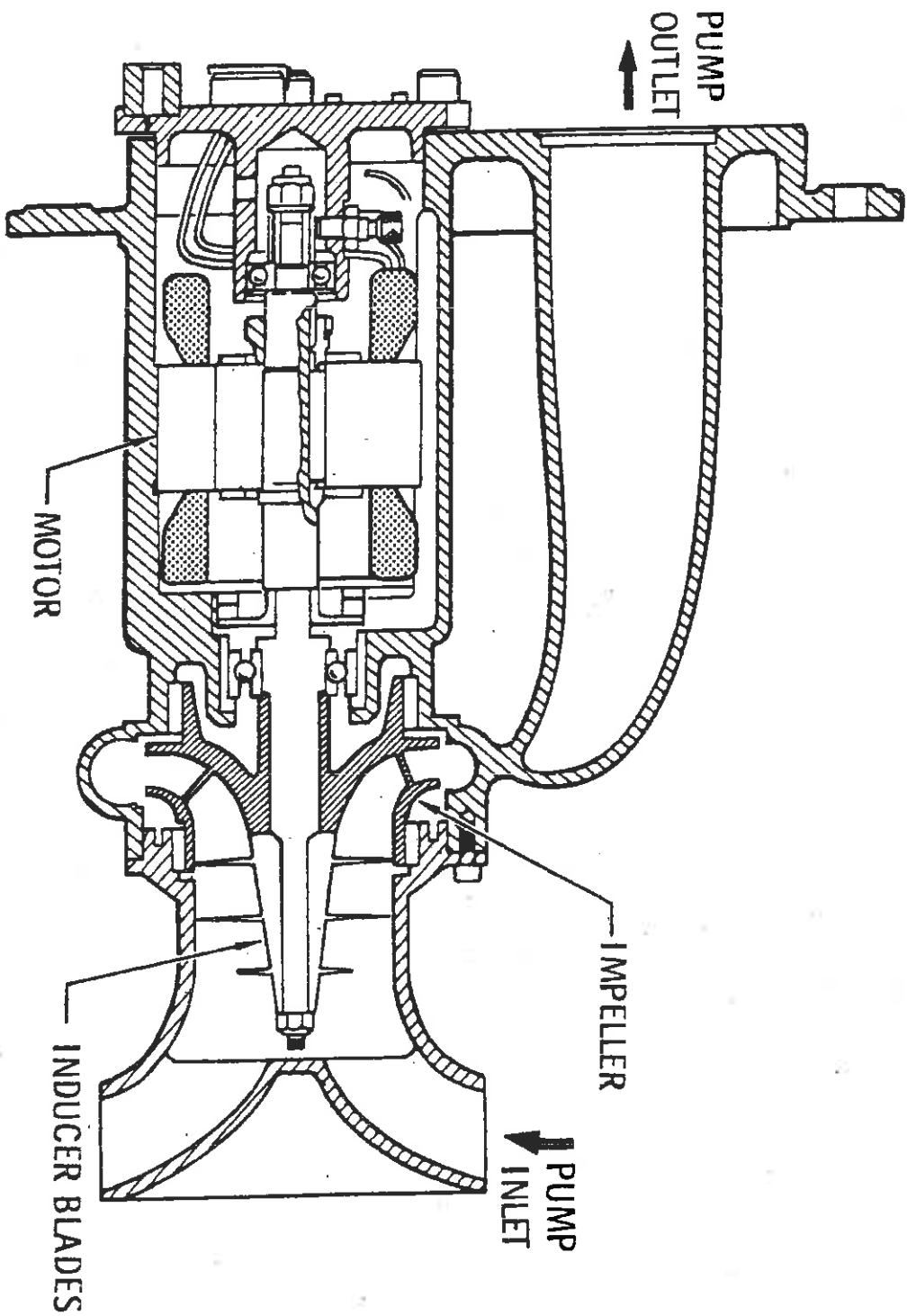
SECTION III
CHILDREN SYSTEM

LH2 AUXILIARY MOTOR-DRIVEN CHILLDOWN PUMP

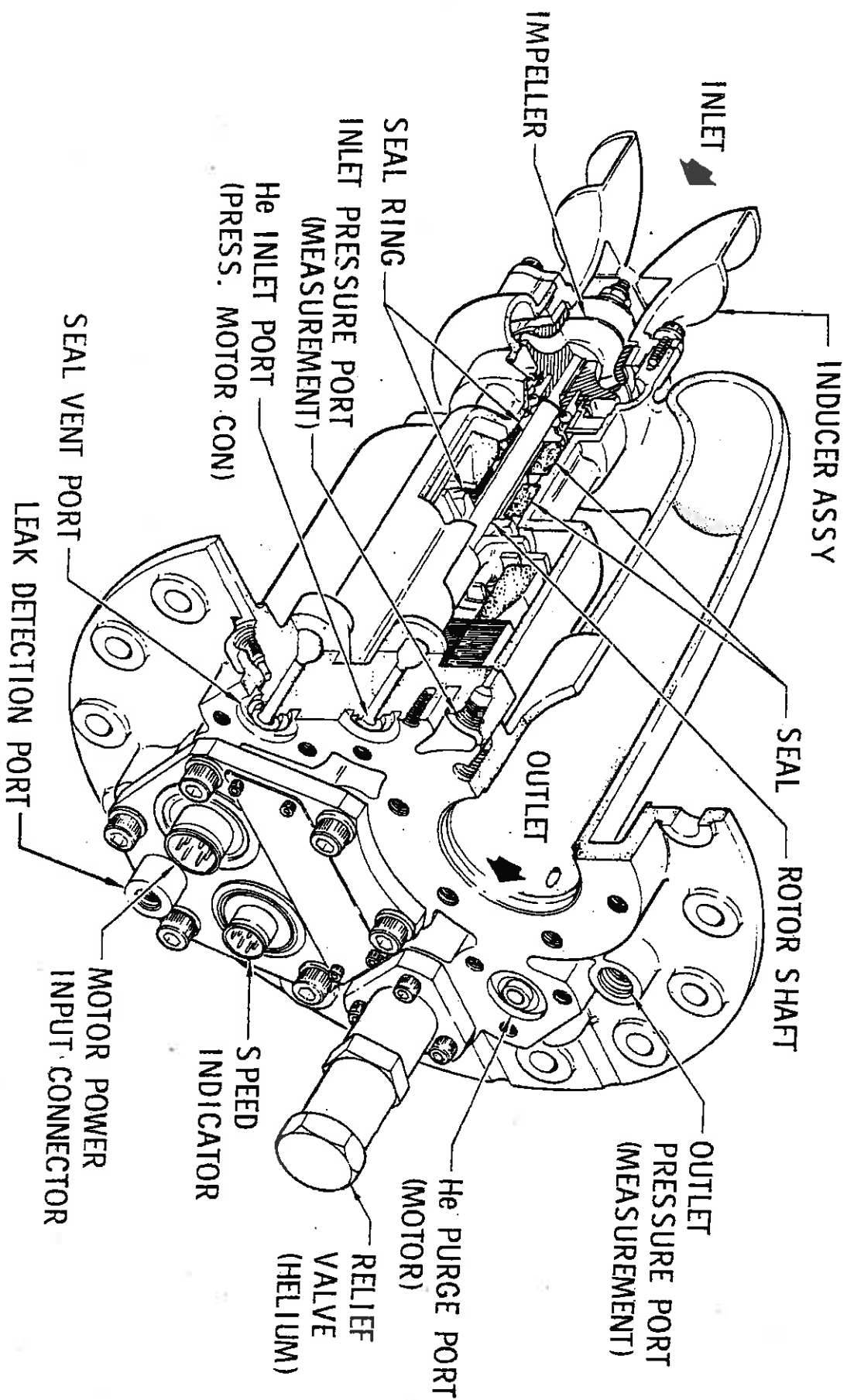
1B37129 & 1A49421



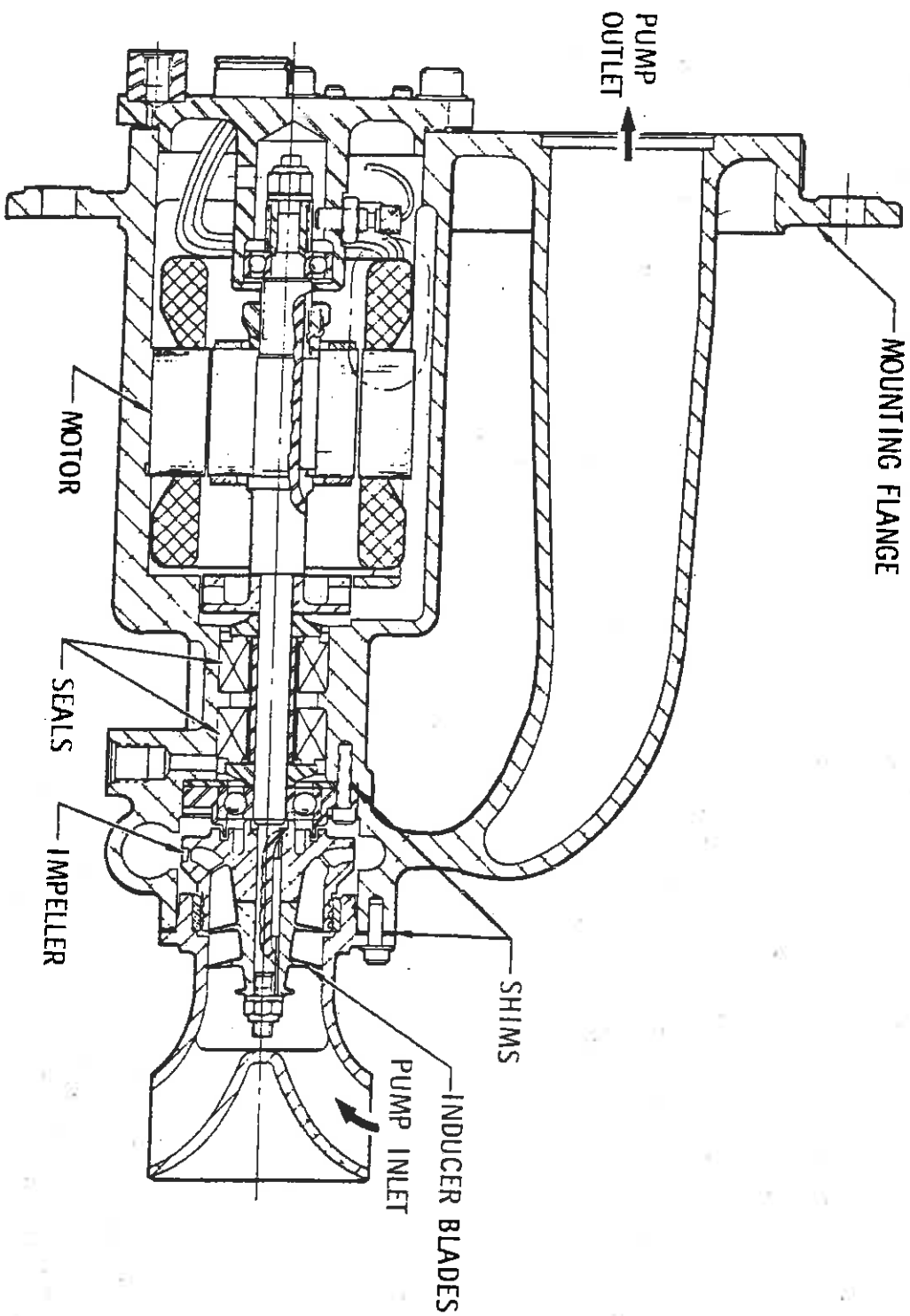
LH₂ AUXILIARY MOTOR-DRIVEN CHILLDOWN PUMP
1B37129, 1A49421 (SCHEMATIC)



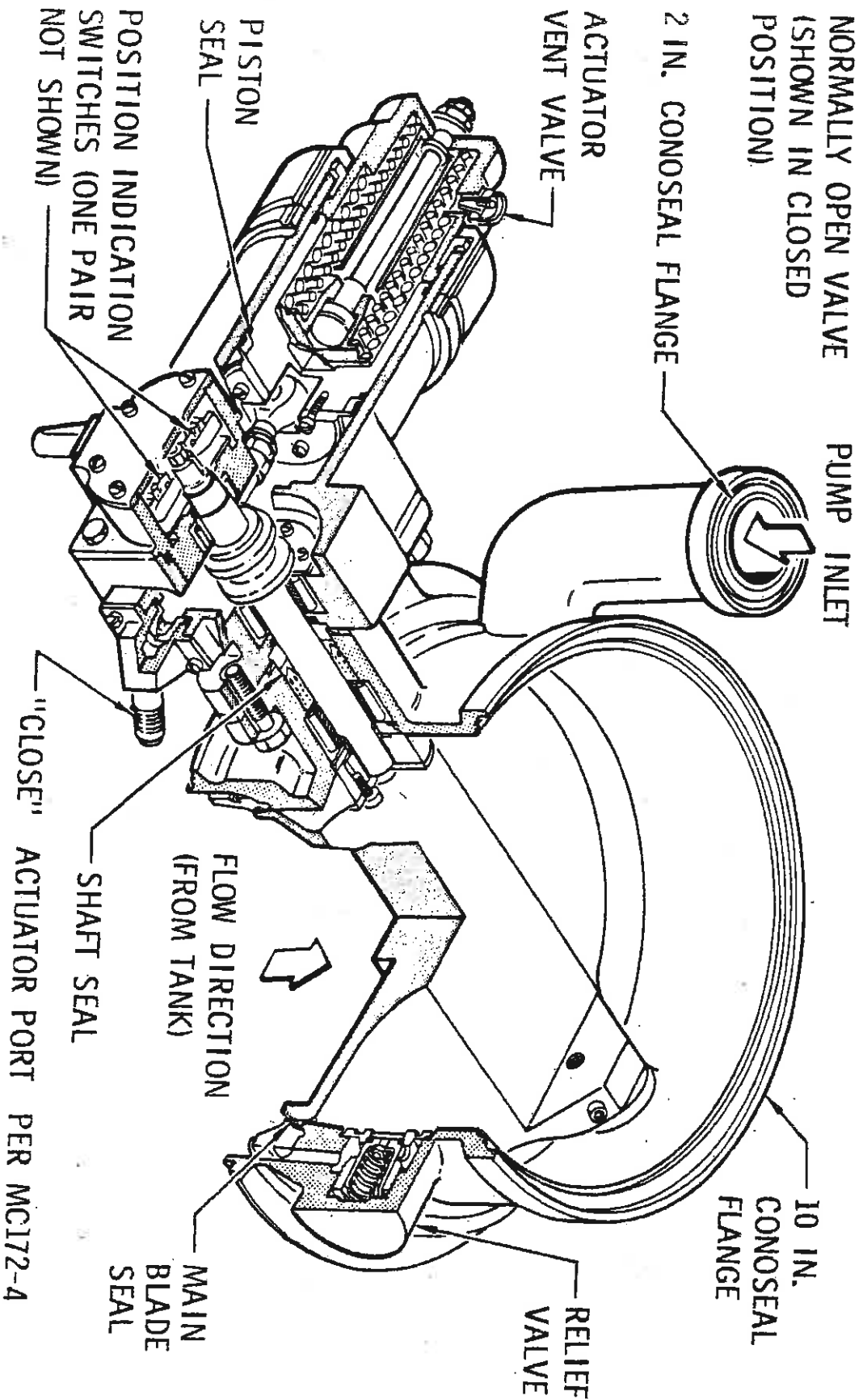
LOX AUXILIARY MOTOR-DRIVEN CHILLDOWN PUMP 1A49423



LOX AUXILIARY MOTOR-DRIVEN CHILLDOWN PUMP 1A49423 (SCHEMATIC)

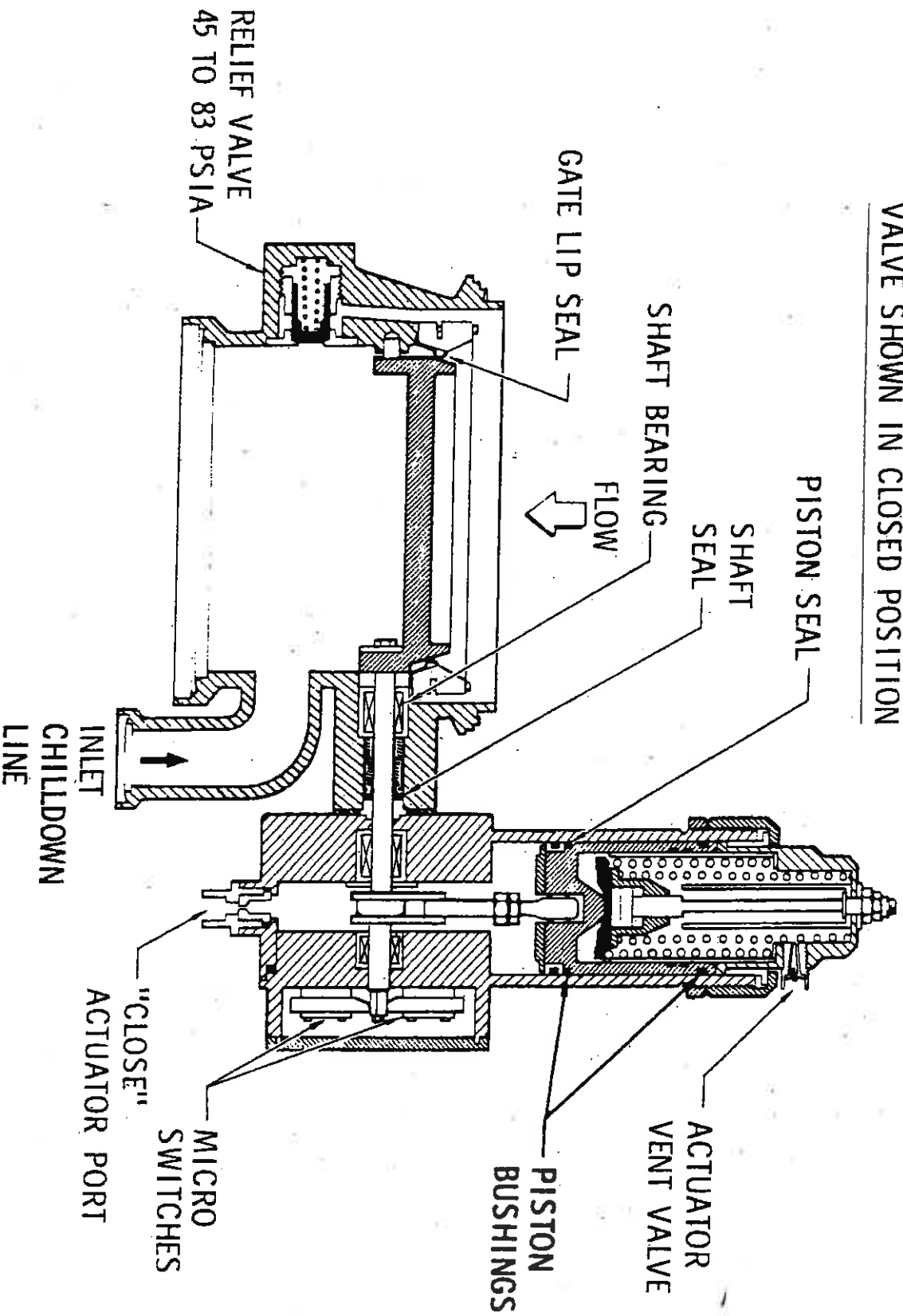


LOX OR LH2 TANK PREVAILVE 1A49968

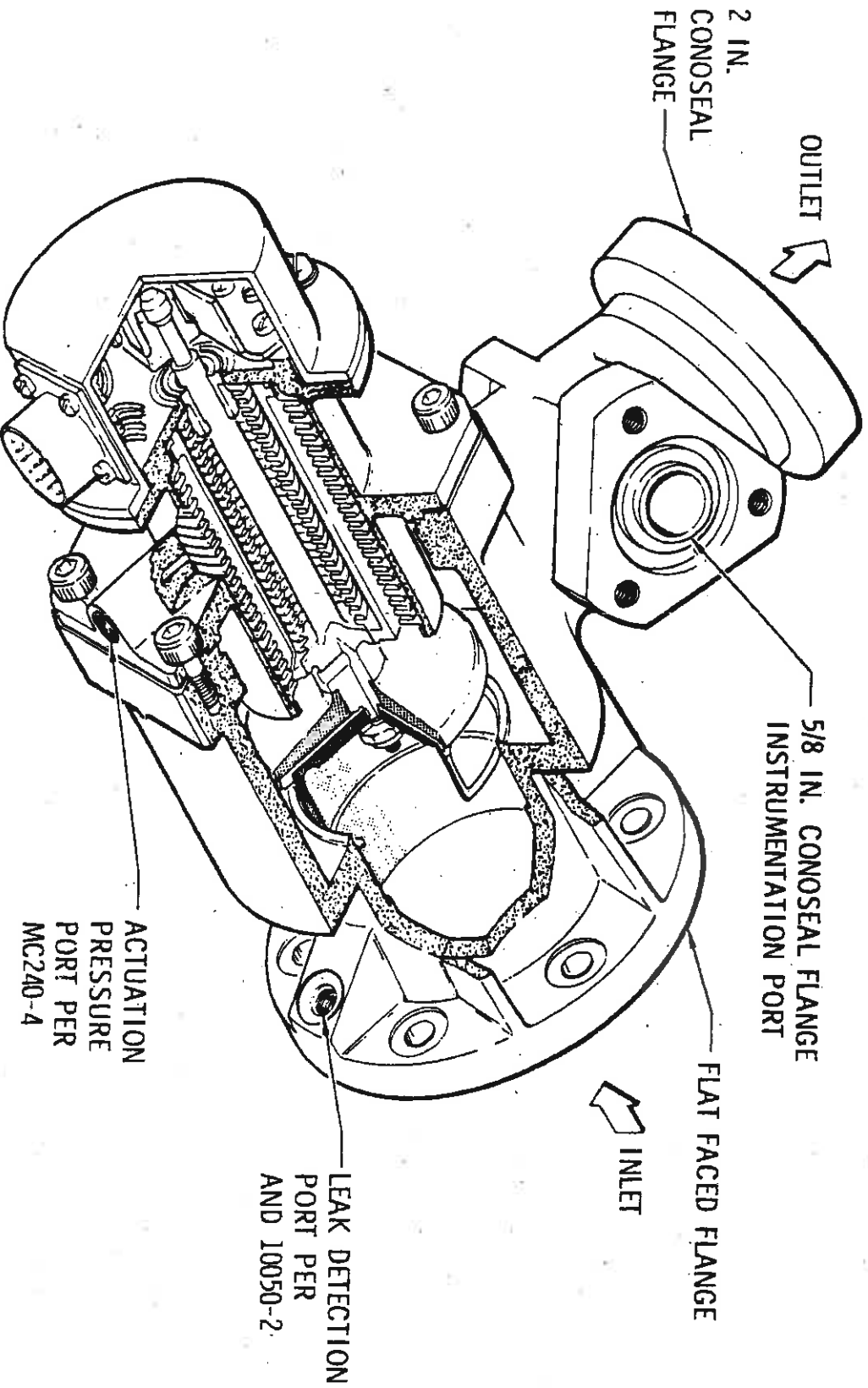


LOX & LH2 TANK PREVAILVES 1A49968 (SCHEMATIC)

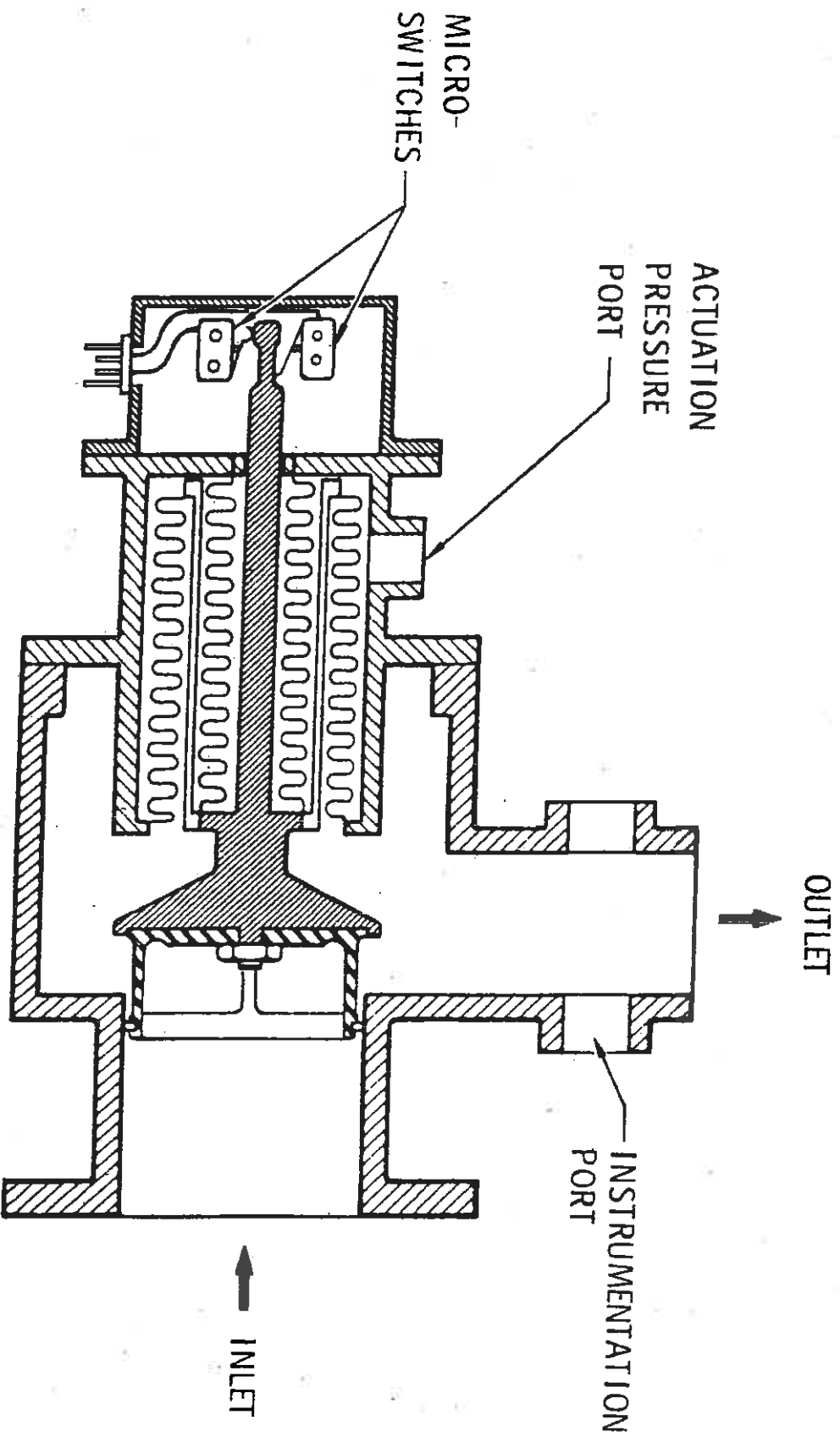
VALVE SHOWN IN CLOSED POSITION



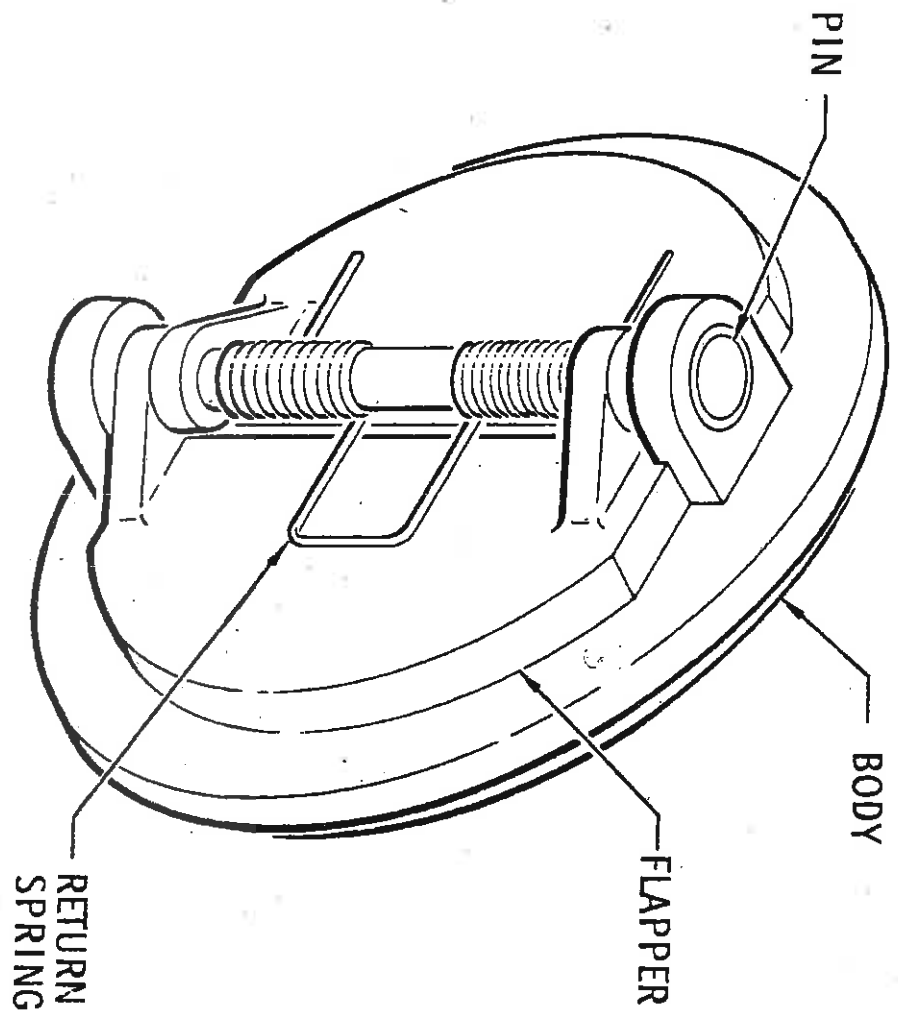
CHILDDOWN SHUTOFF VALVE 1A49965



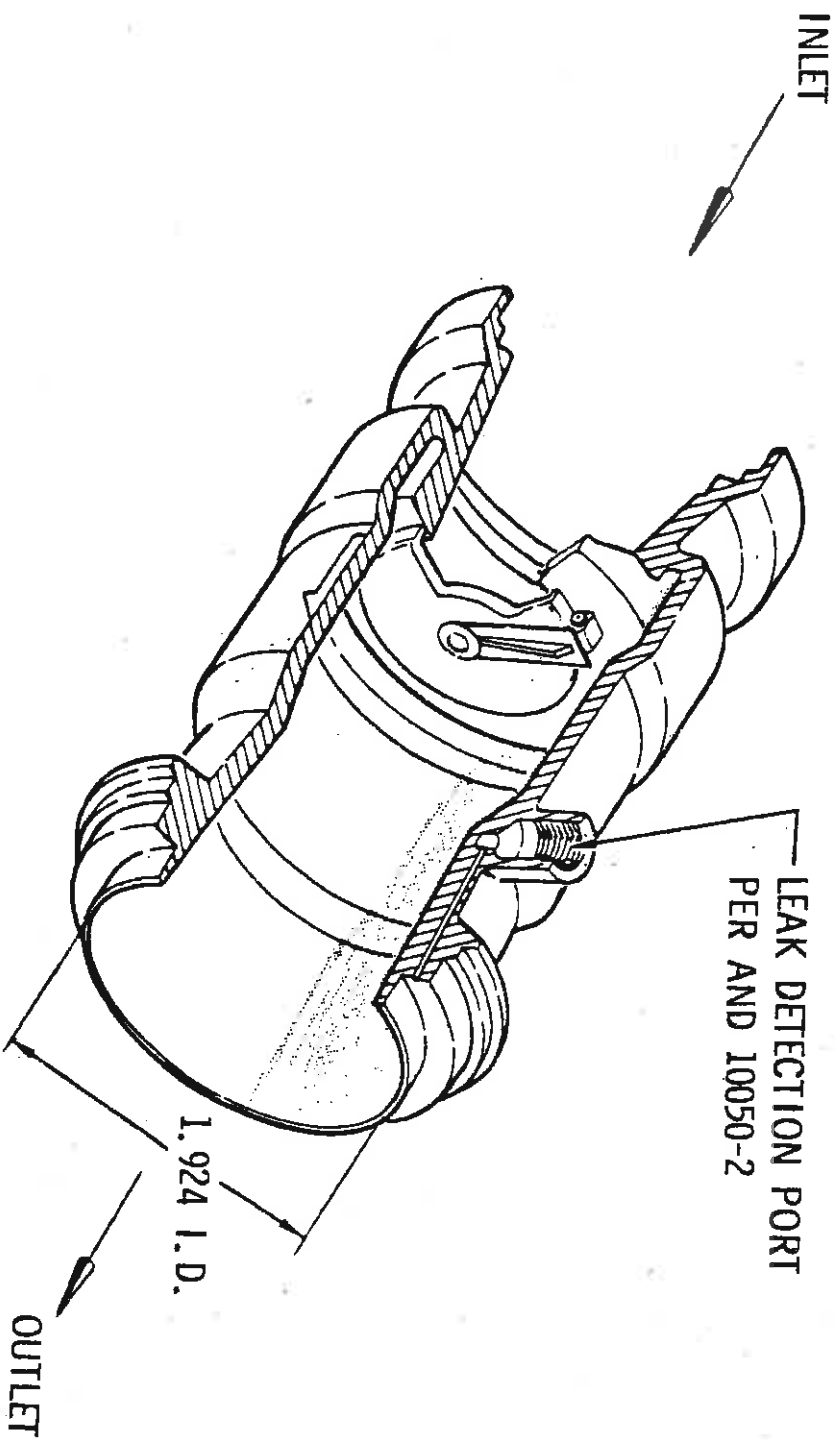
CHILLDOWN SHUTOFF VALVE 1A49965 (SCHEMATIC)



2-INCH CHECK VALVE 1B53920

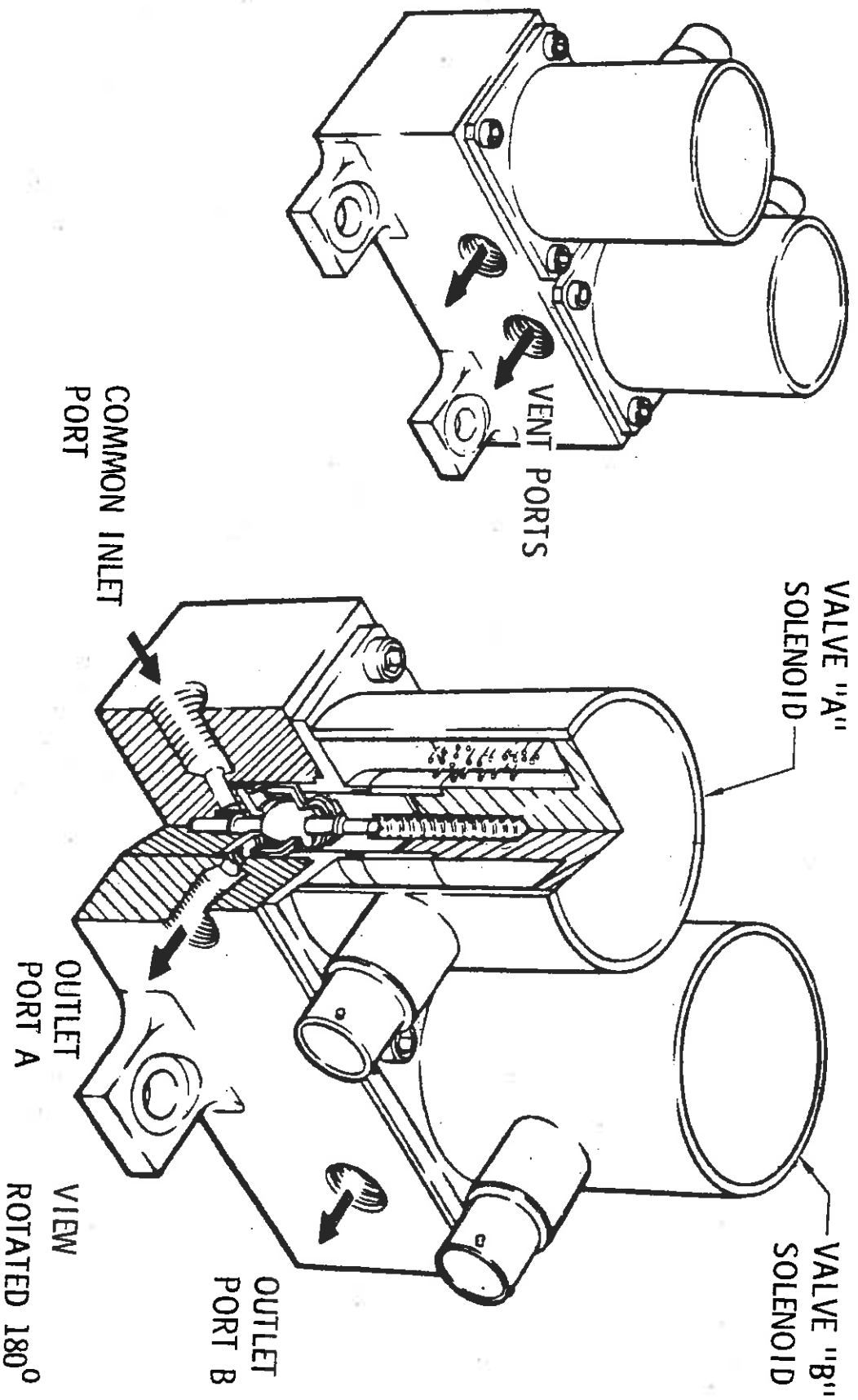


CHILDDOWN SYSTEM SWING CHECK VALVE 1A49964

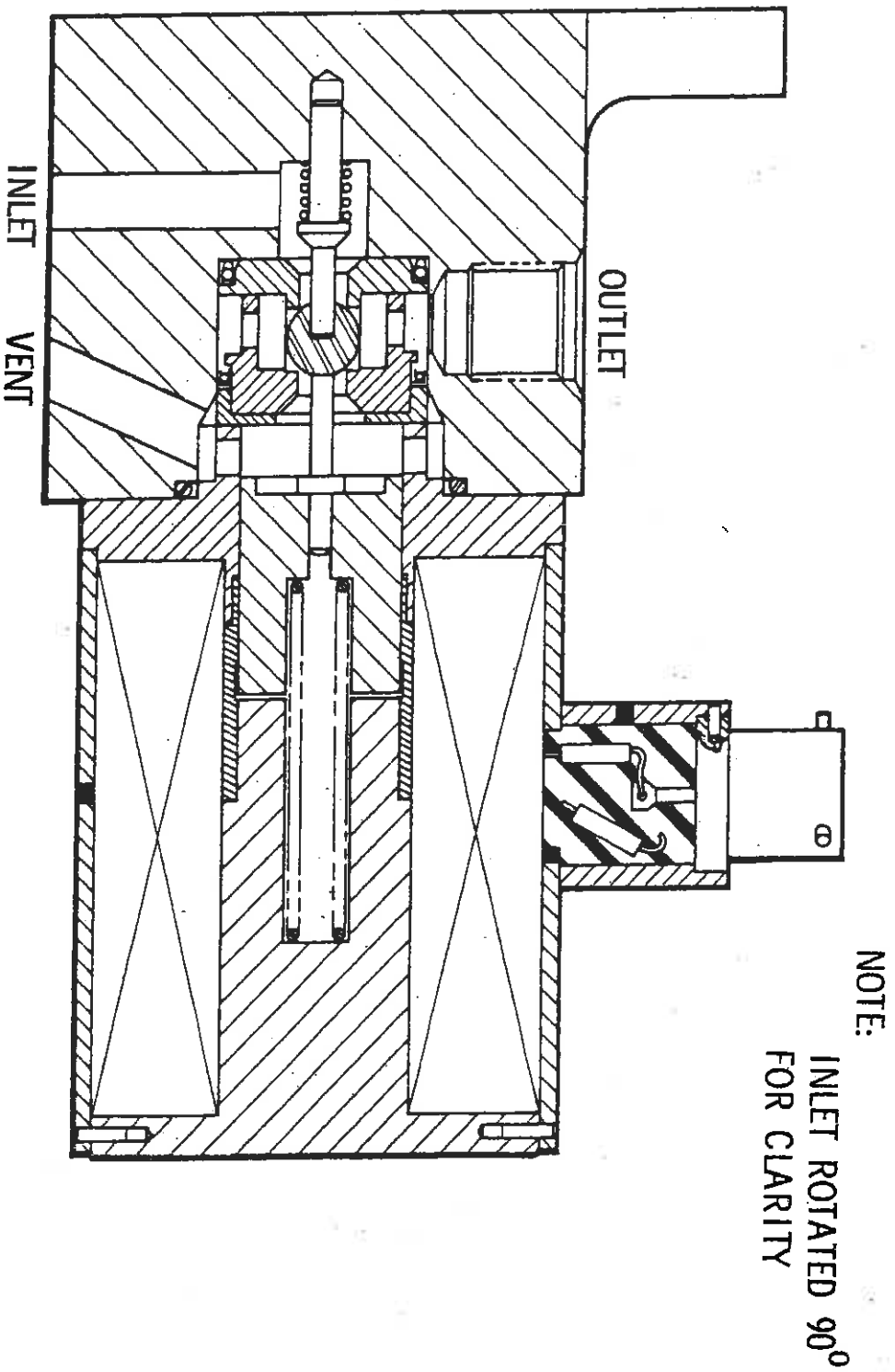


SECTION IV
PNEUMATIC SYSTEM

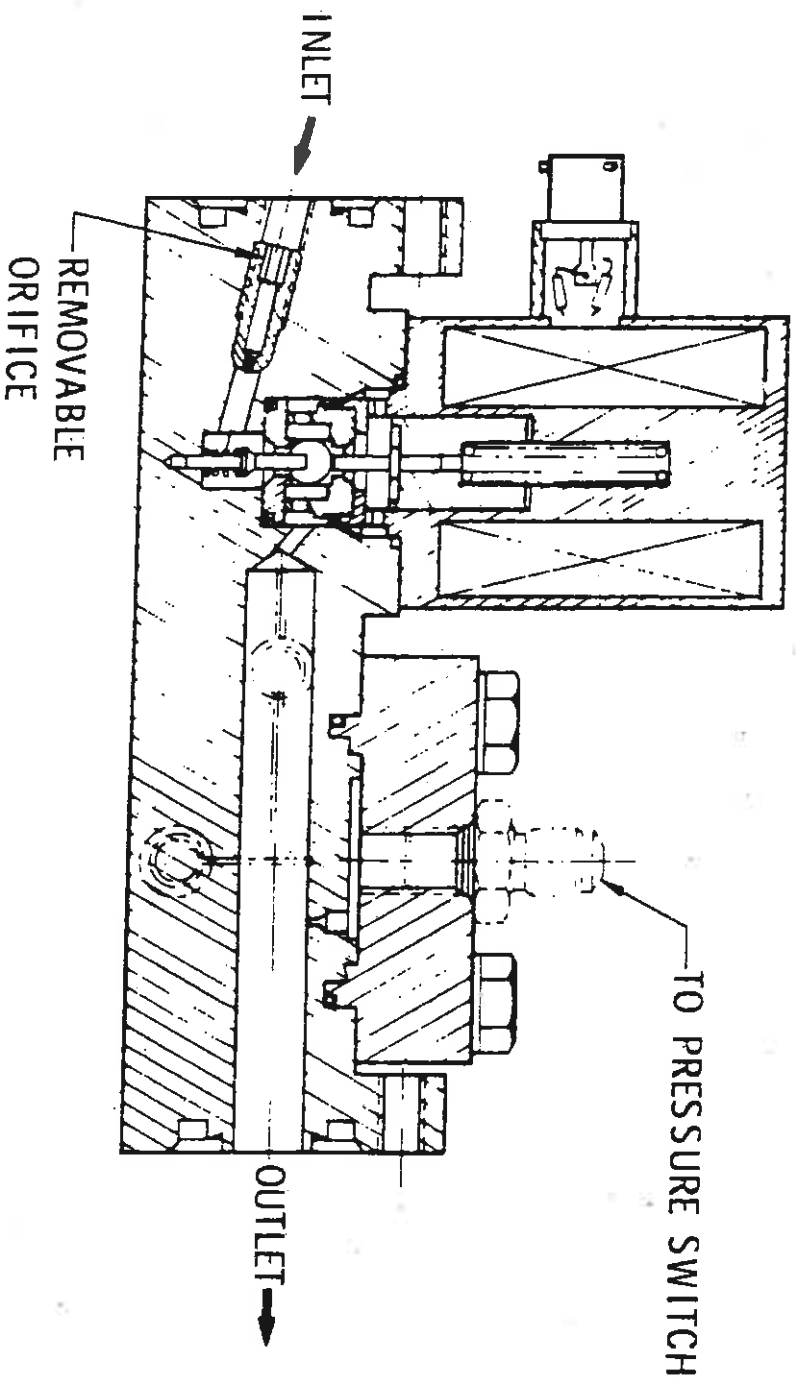
ACTUATION CONTROL MODULE 1B66692



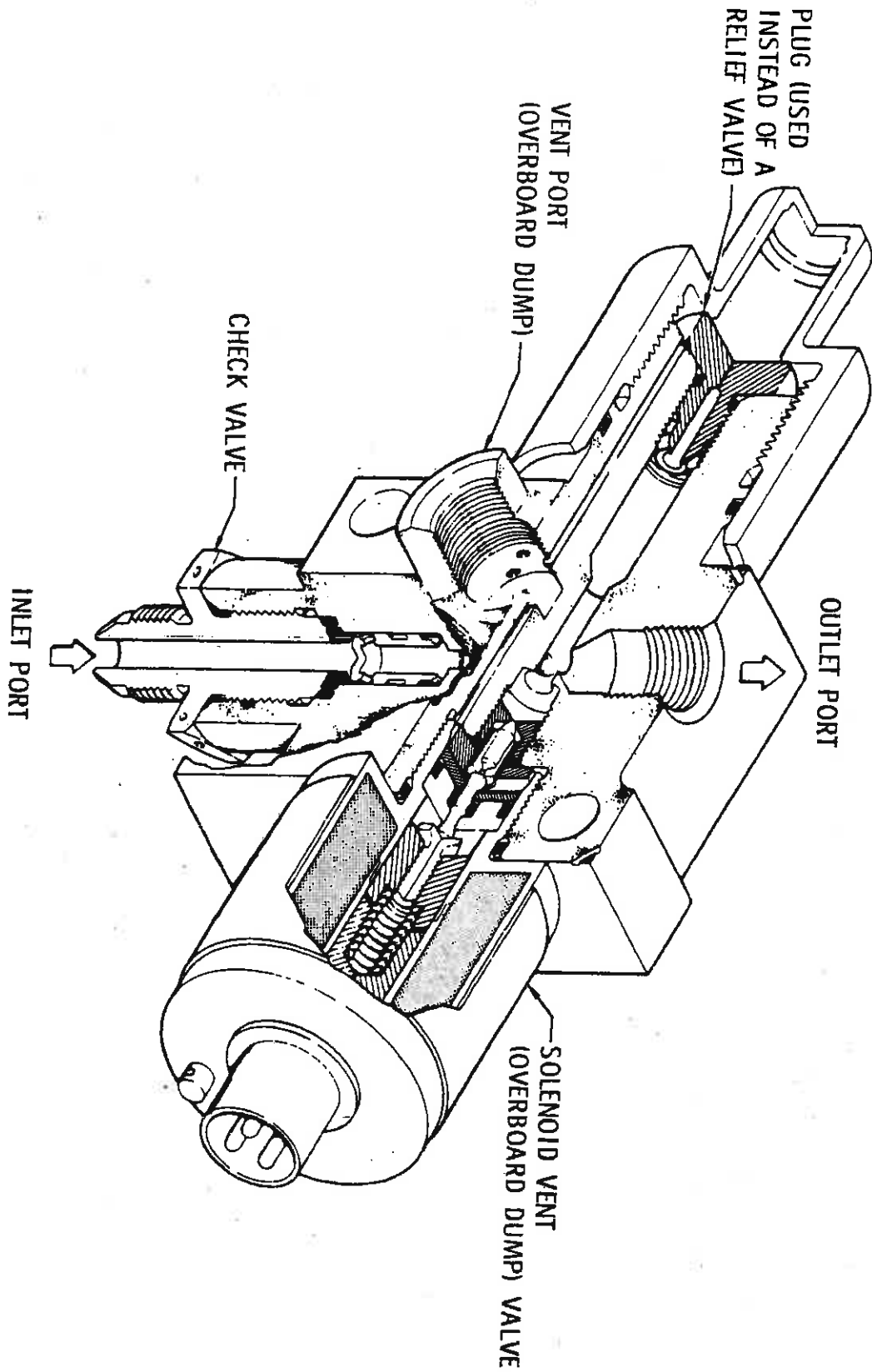
**ACTUATION CONTROL MODULE 1B666692
(SCHEMATIC)**



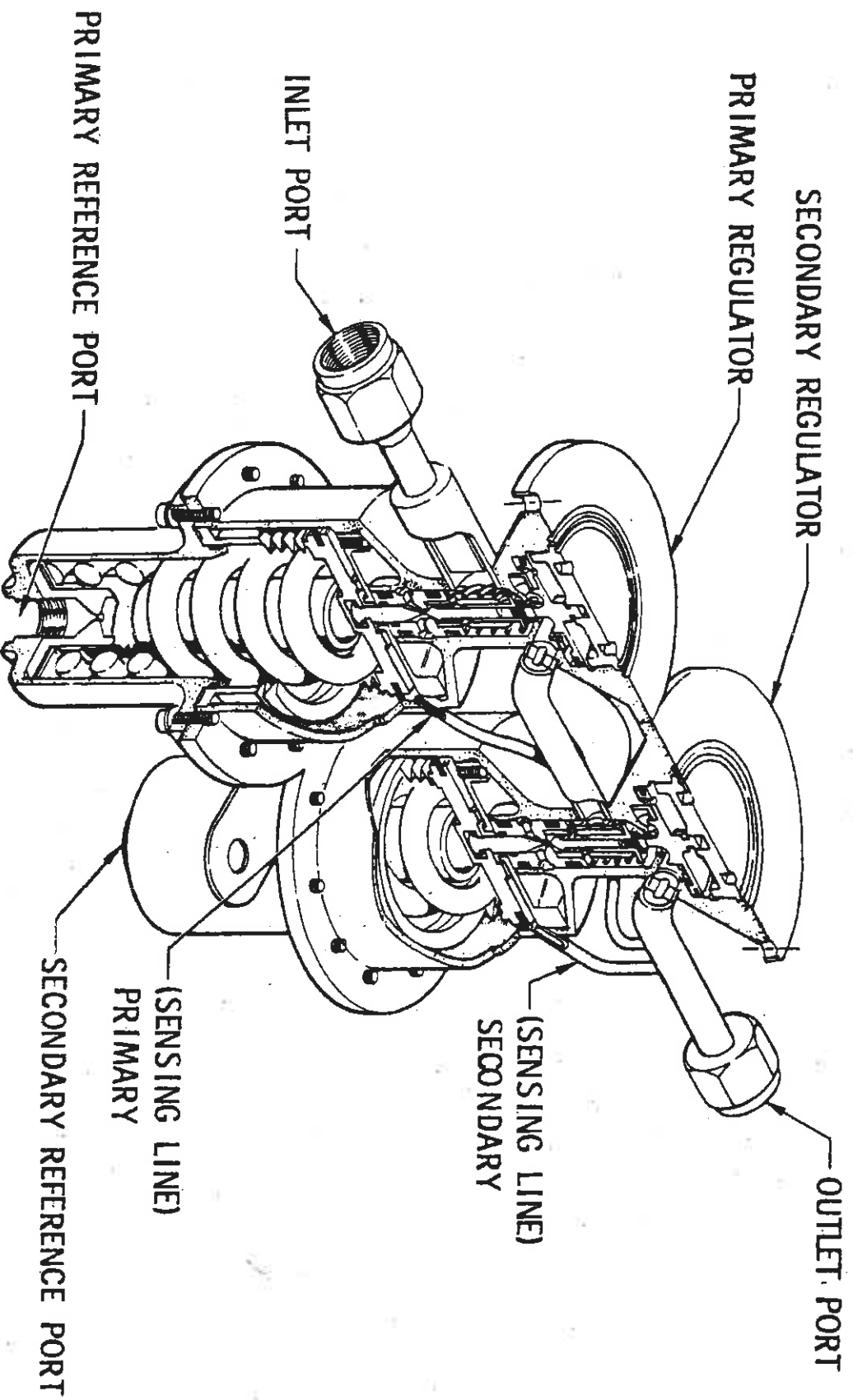
ENGINE PUMP PURGE CONTROL MODULE 1A58347 (SCHEMATIC)



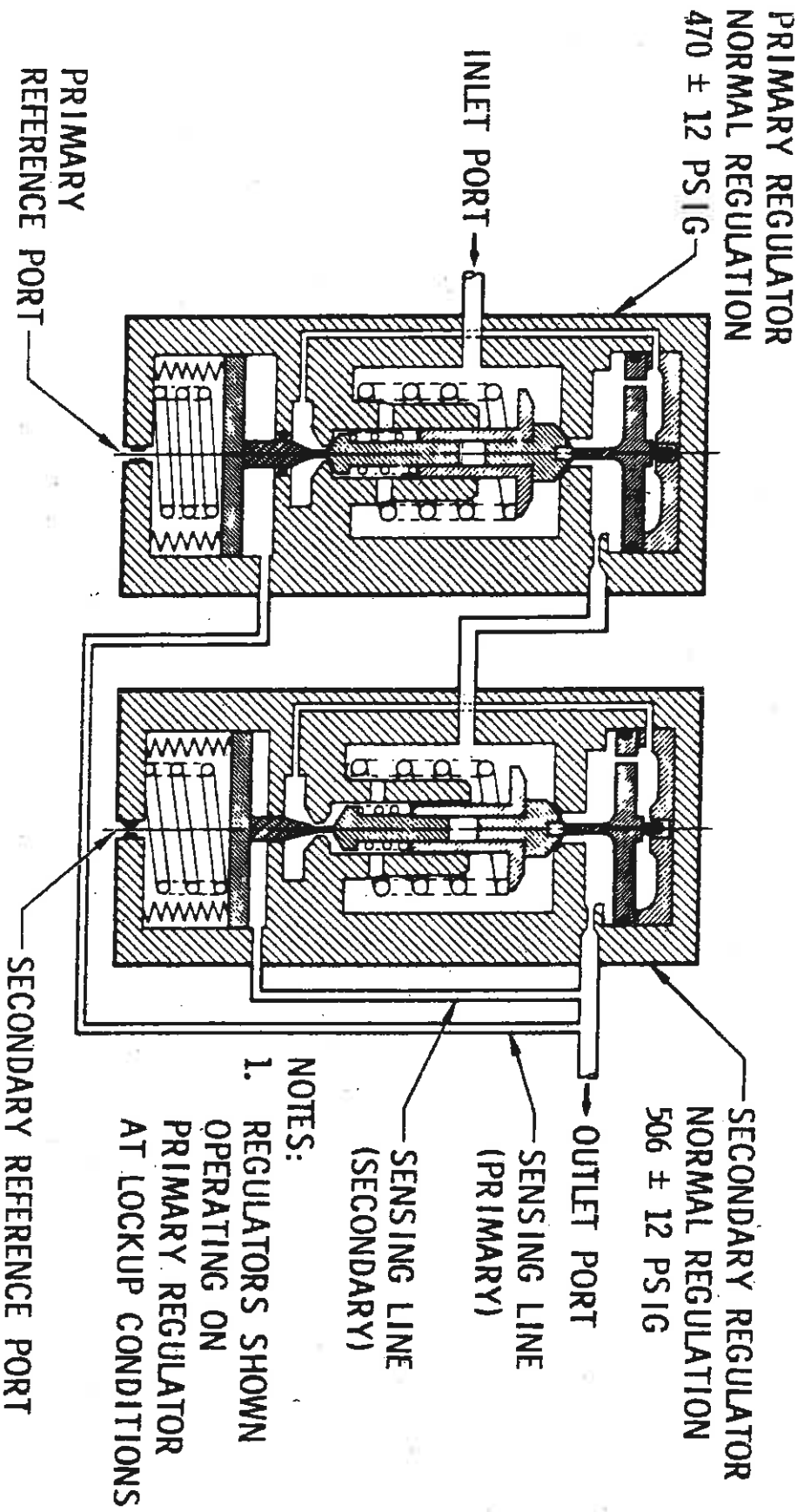
HELIUM FILL MODULE 1A57350



PNEUMATIC PRESSURE REGULATOR 1B67713

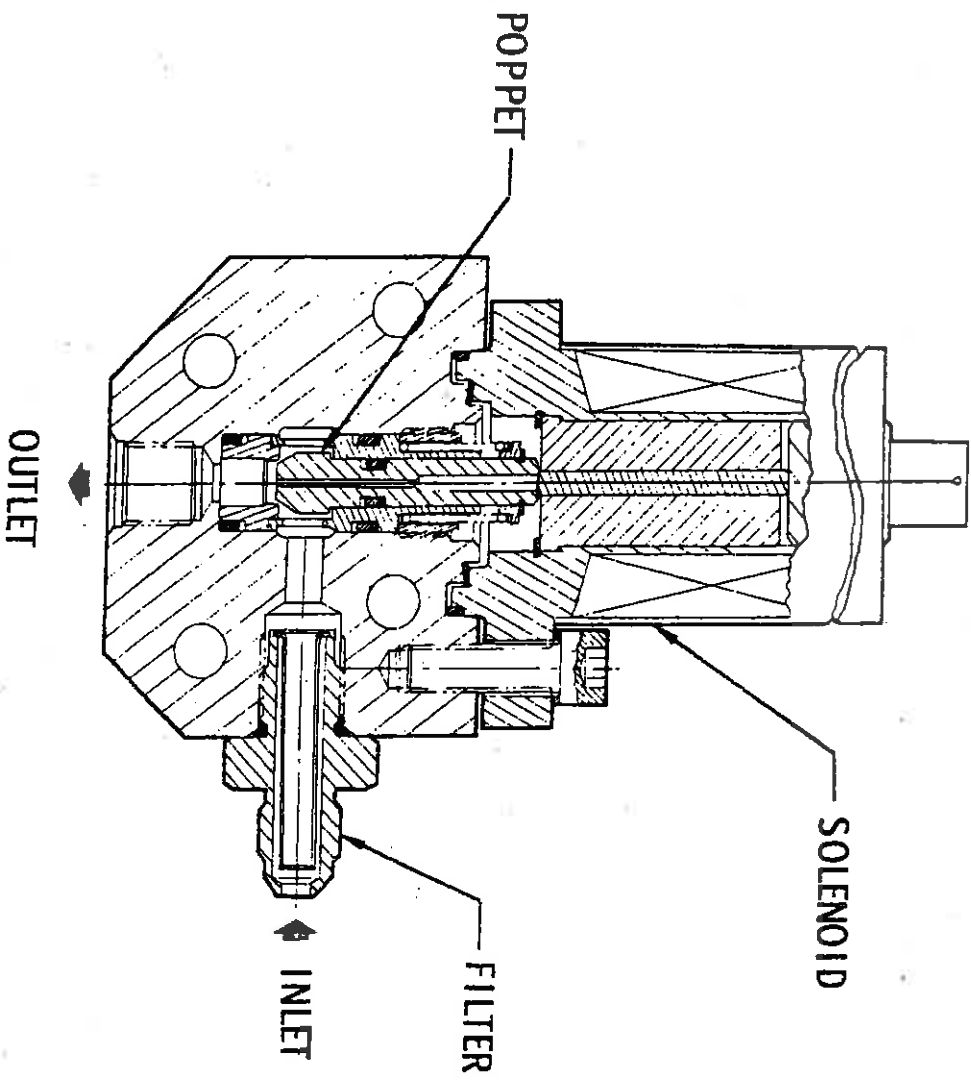


PNEUMATIC PRESSURE REGULATOR **1B67713(SCHEMATIC)**

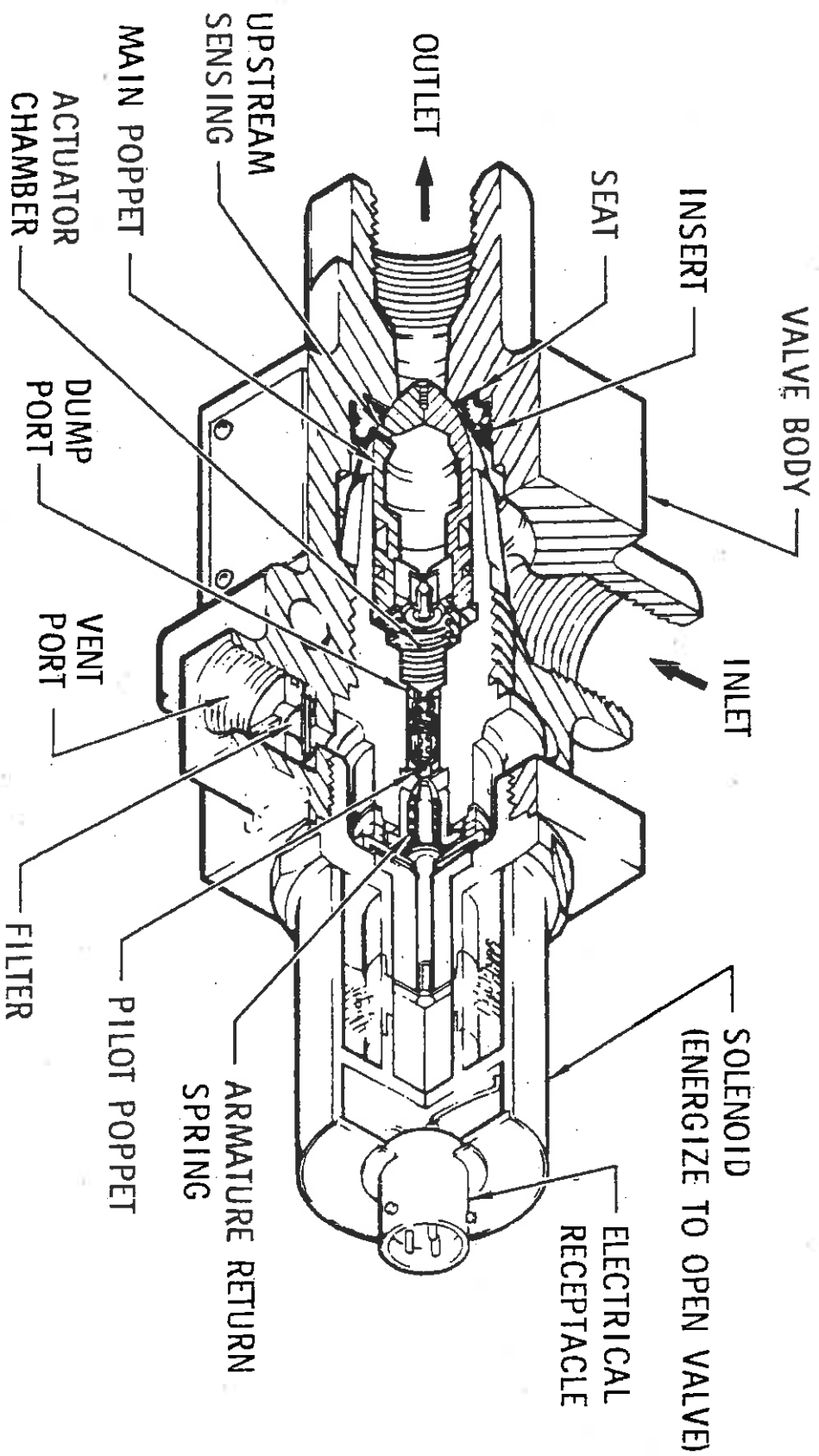


Revised August 4, 1971

PNEUMATIC CONTROL SOLENOID VALVE **1B67715 (SCHEMATIC)**

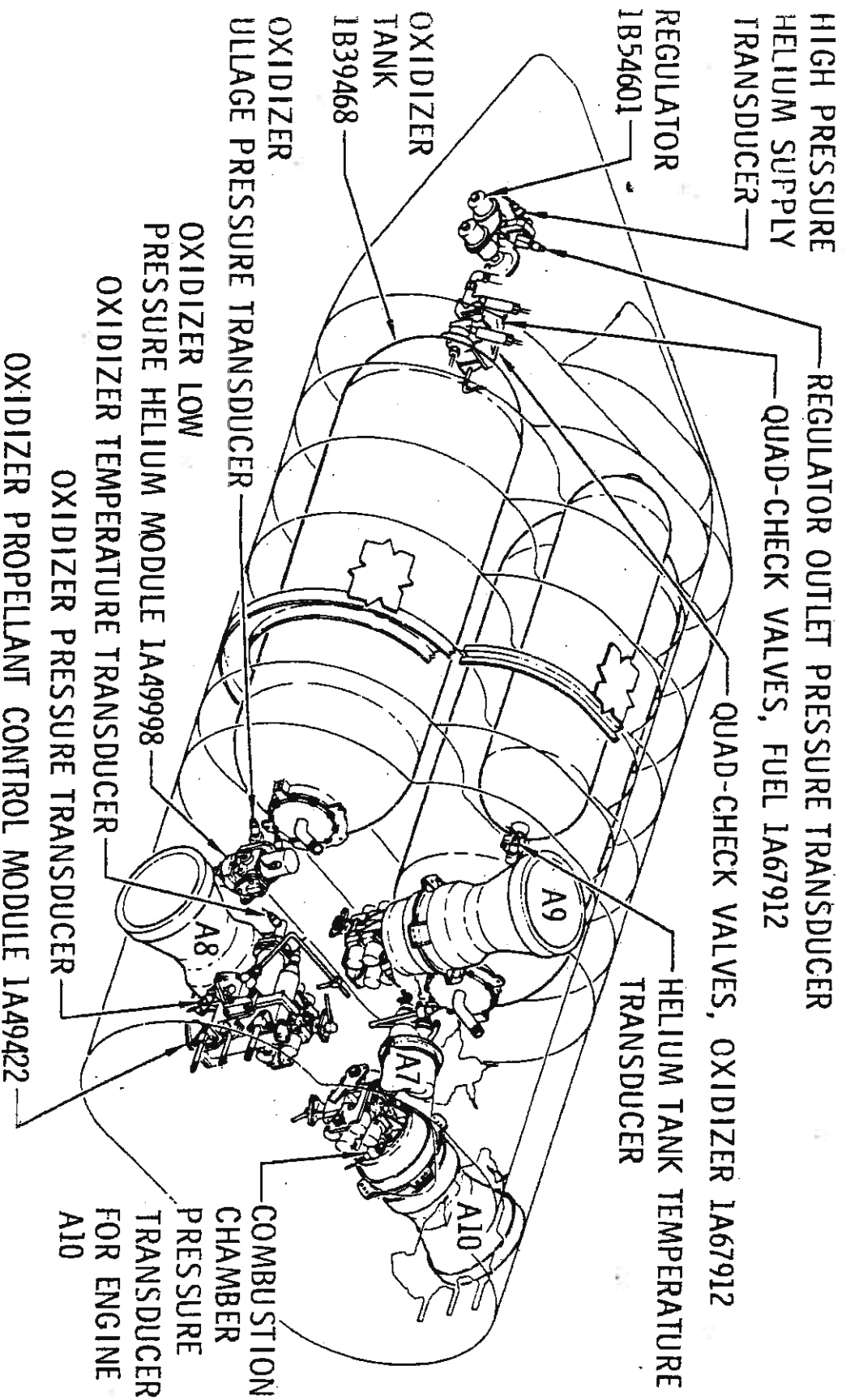


START TANK RECHARGE SOLENOID VALVE 1B43660

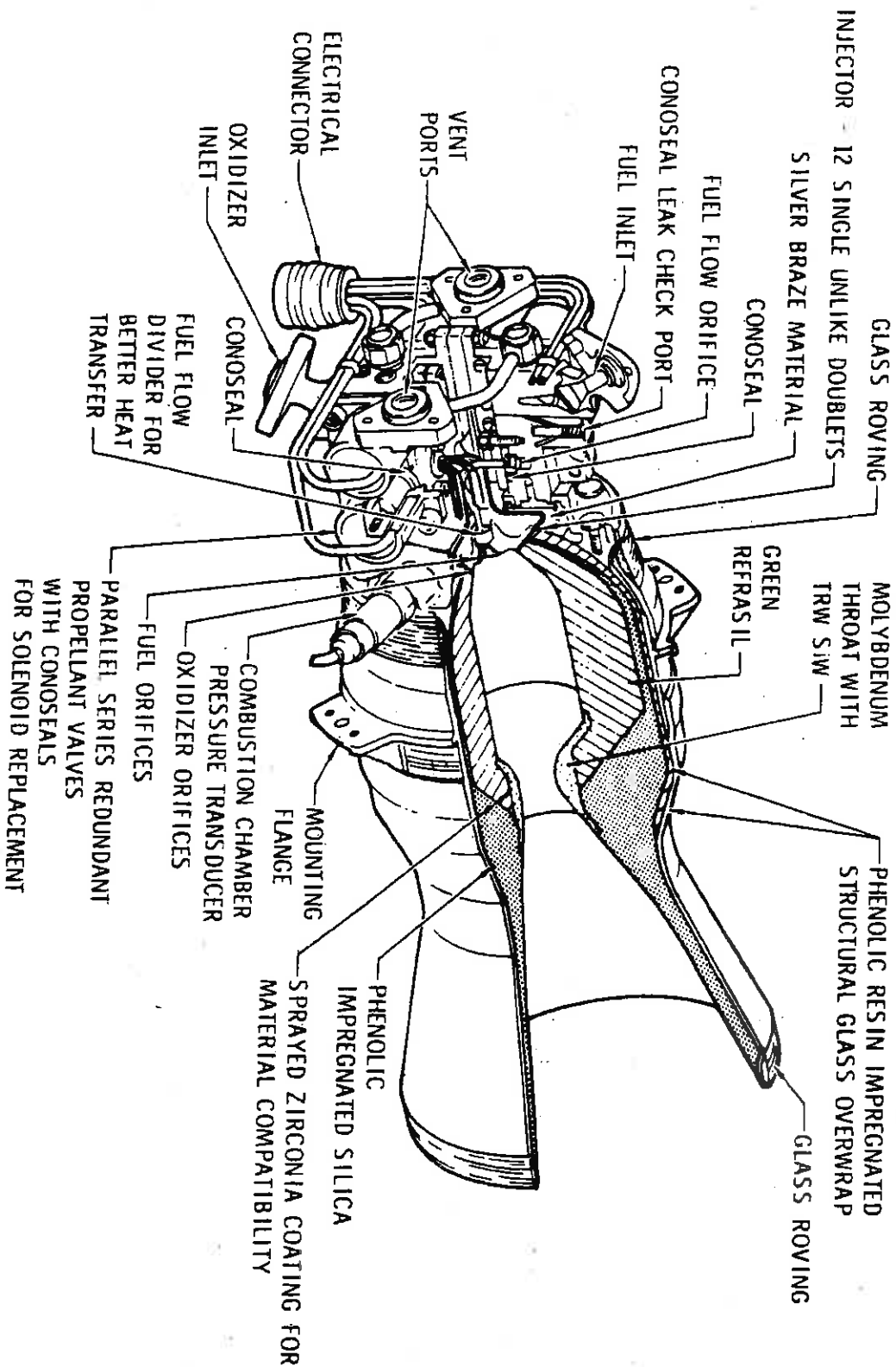


SECTION V
AUXILIARY PROPULSION SYSTEM

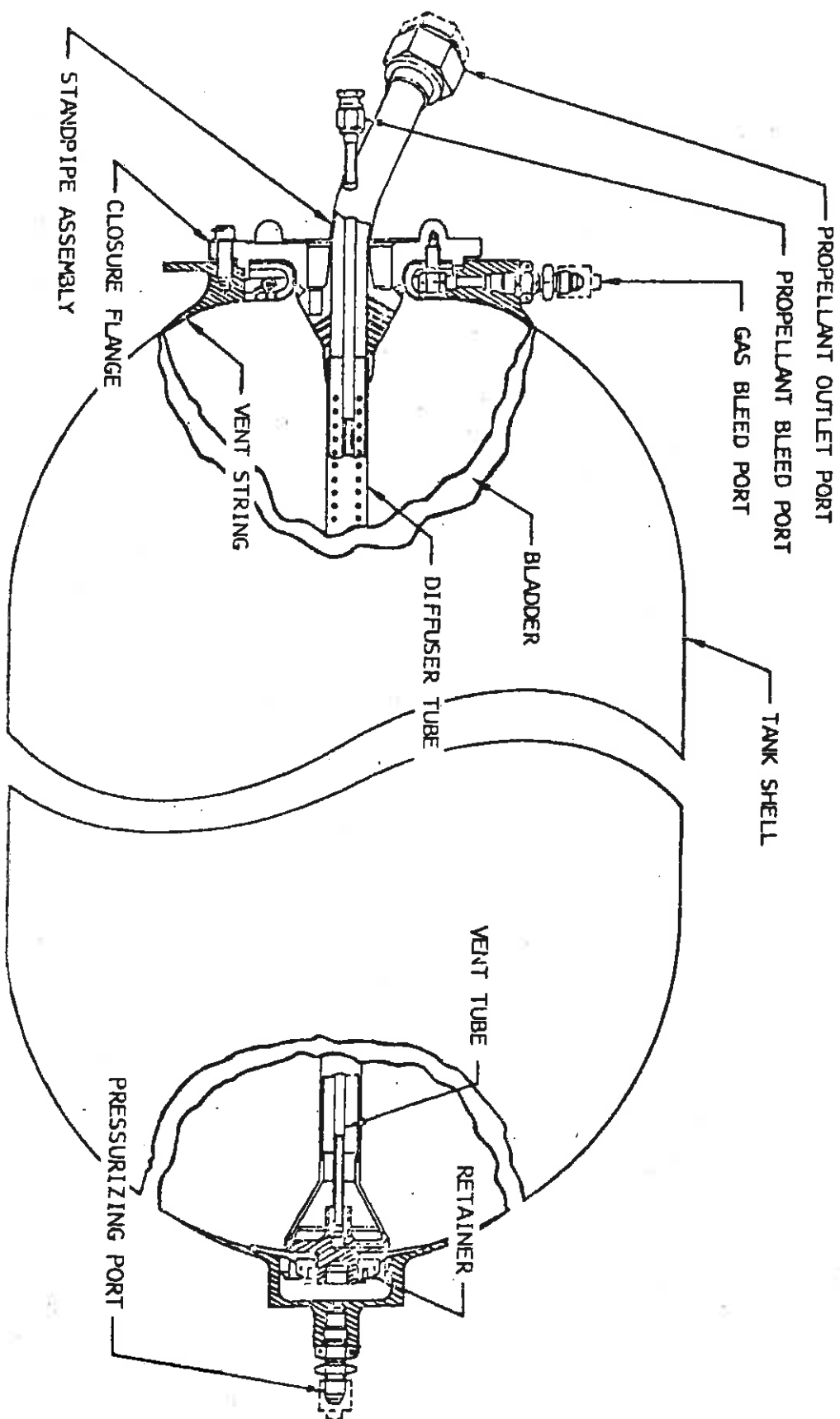
SATURN V AUXILIARY PROPULSION SYSTEM



S-IVB ATTITUDE CONTROL ENGINE **1A39597**

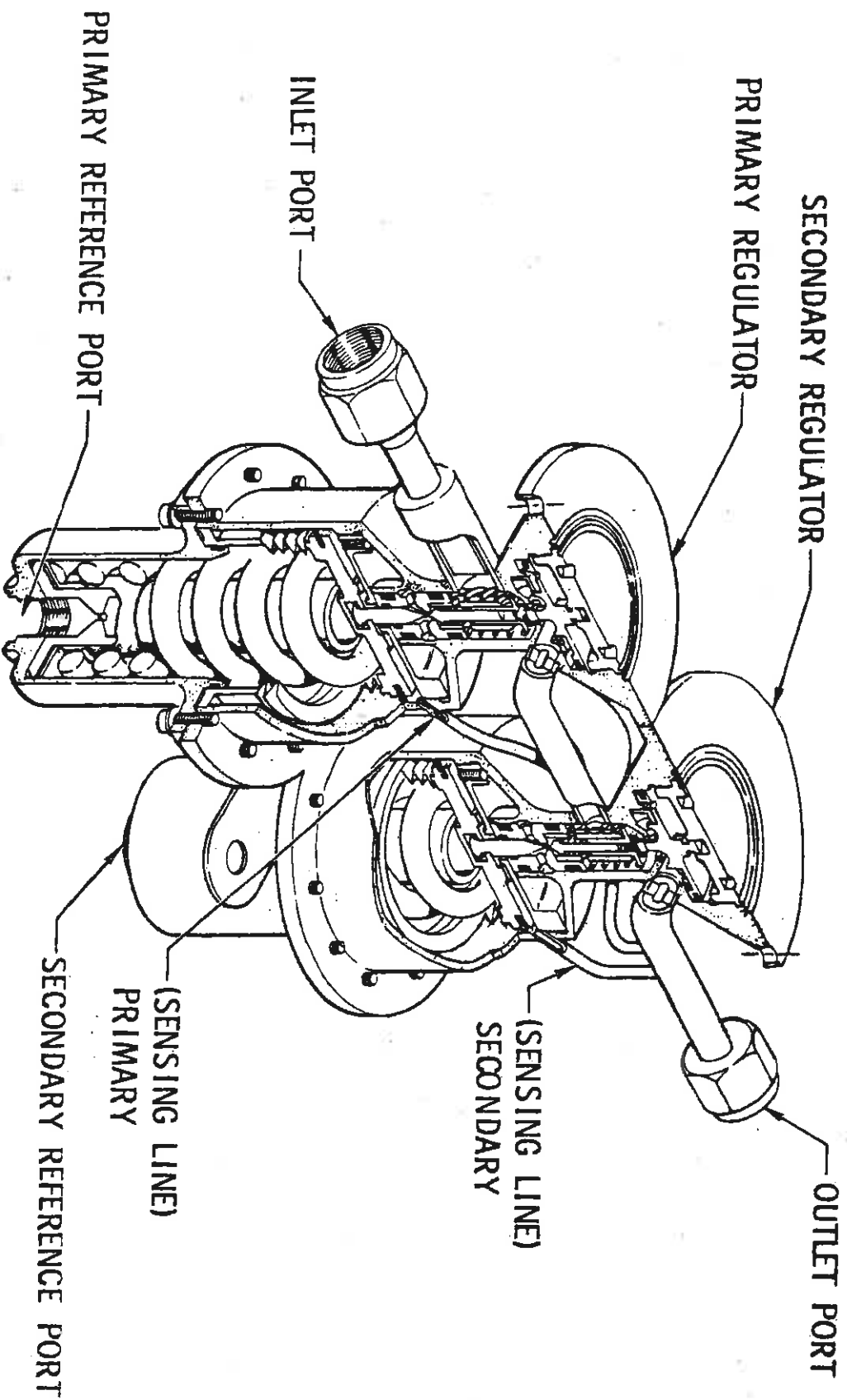


APS BLADDER EXPULSION TANK ASSEMBLY 1B39468



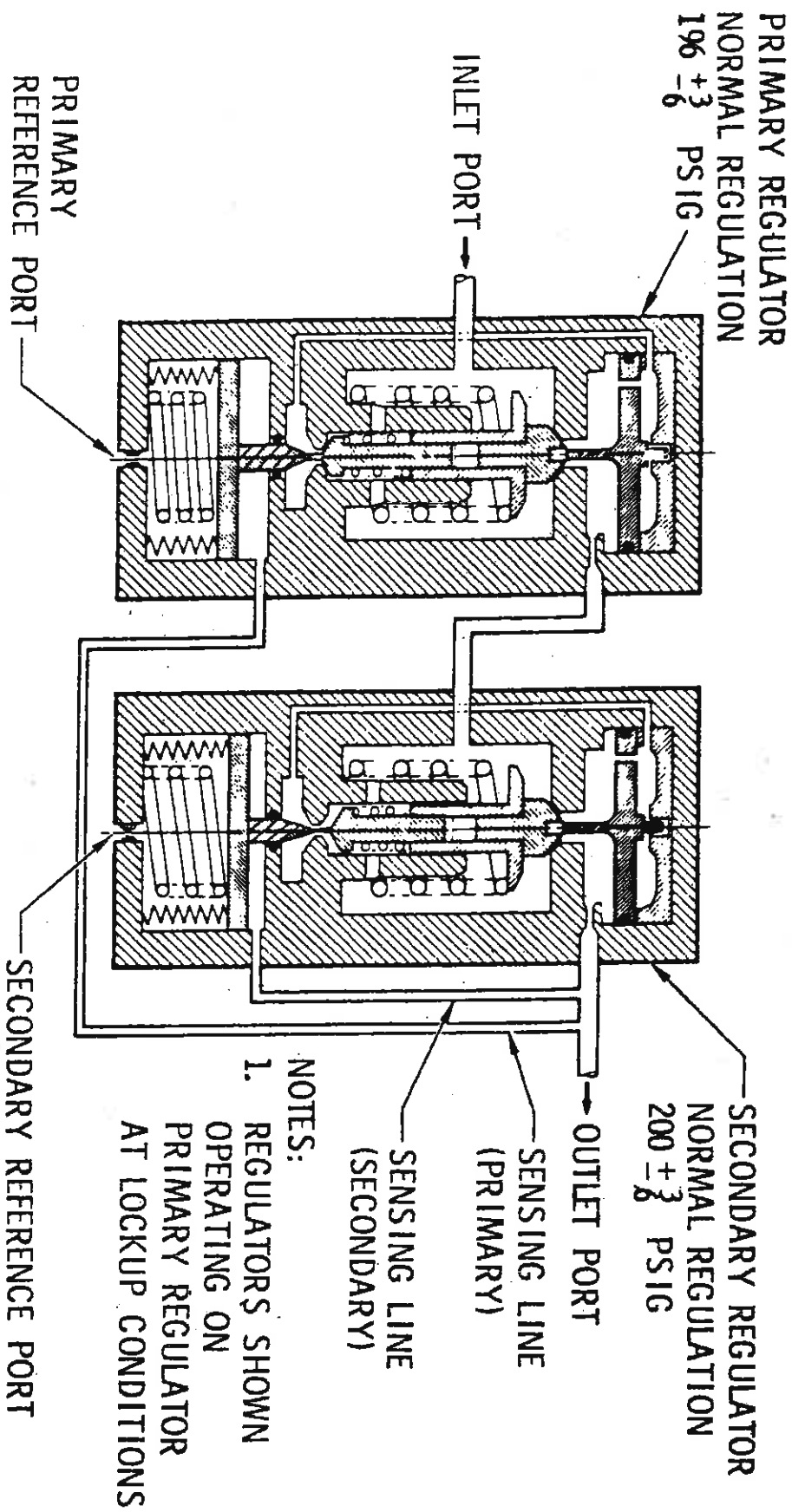
MCDONNELL
DOUGLAS
ASTRONAUTICS
COMPANY

APS HELIUM PRESSURE REGULATOR 1B54601



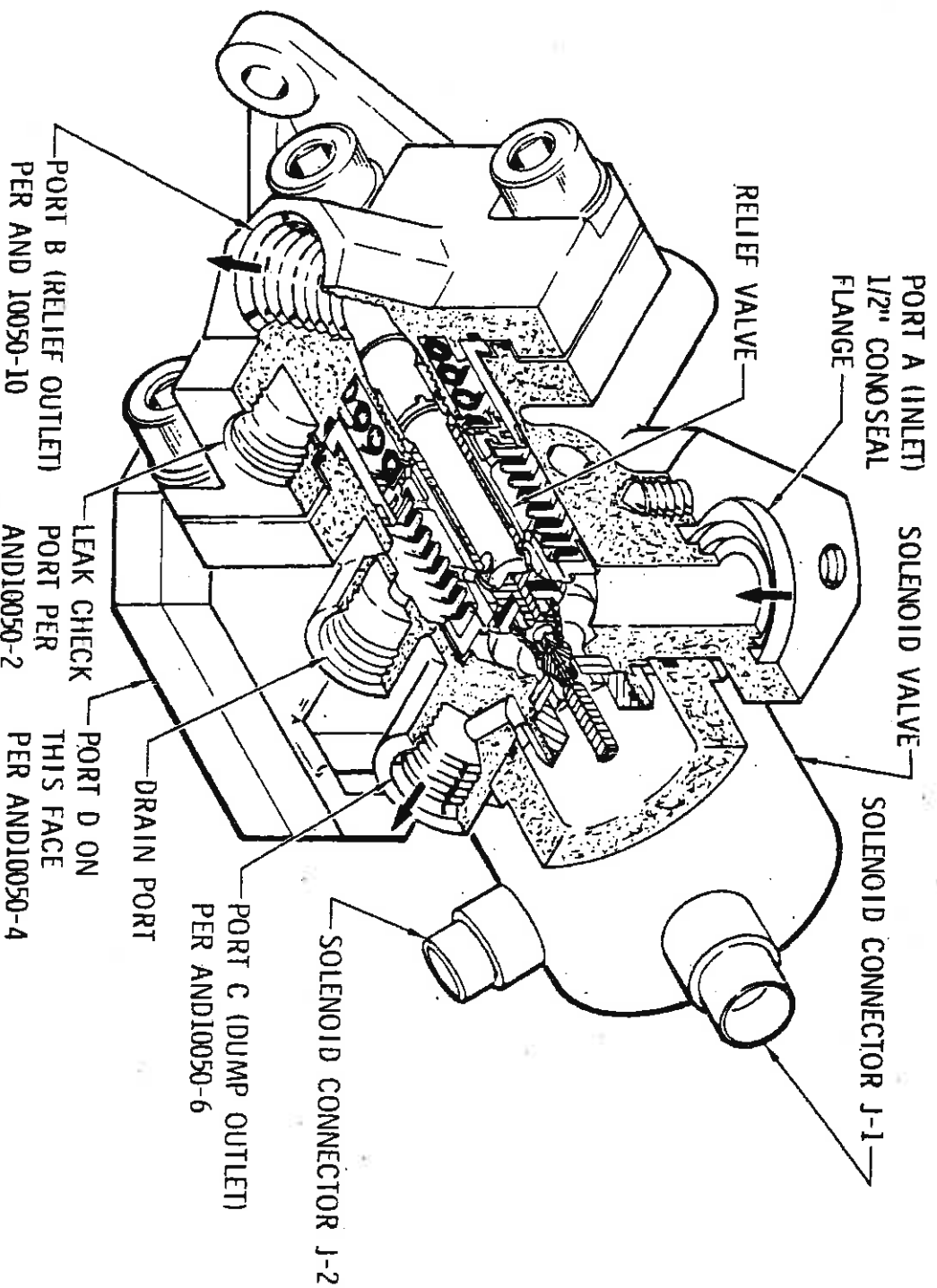
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DOUGLAS
ASTRONAUTICS
COMPANY

APS HELIUM PRESSURE REGULATOR 1B54601 (SCHEMATIC)

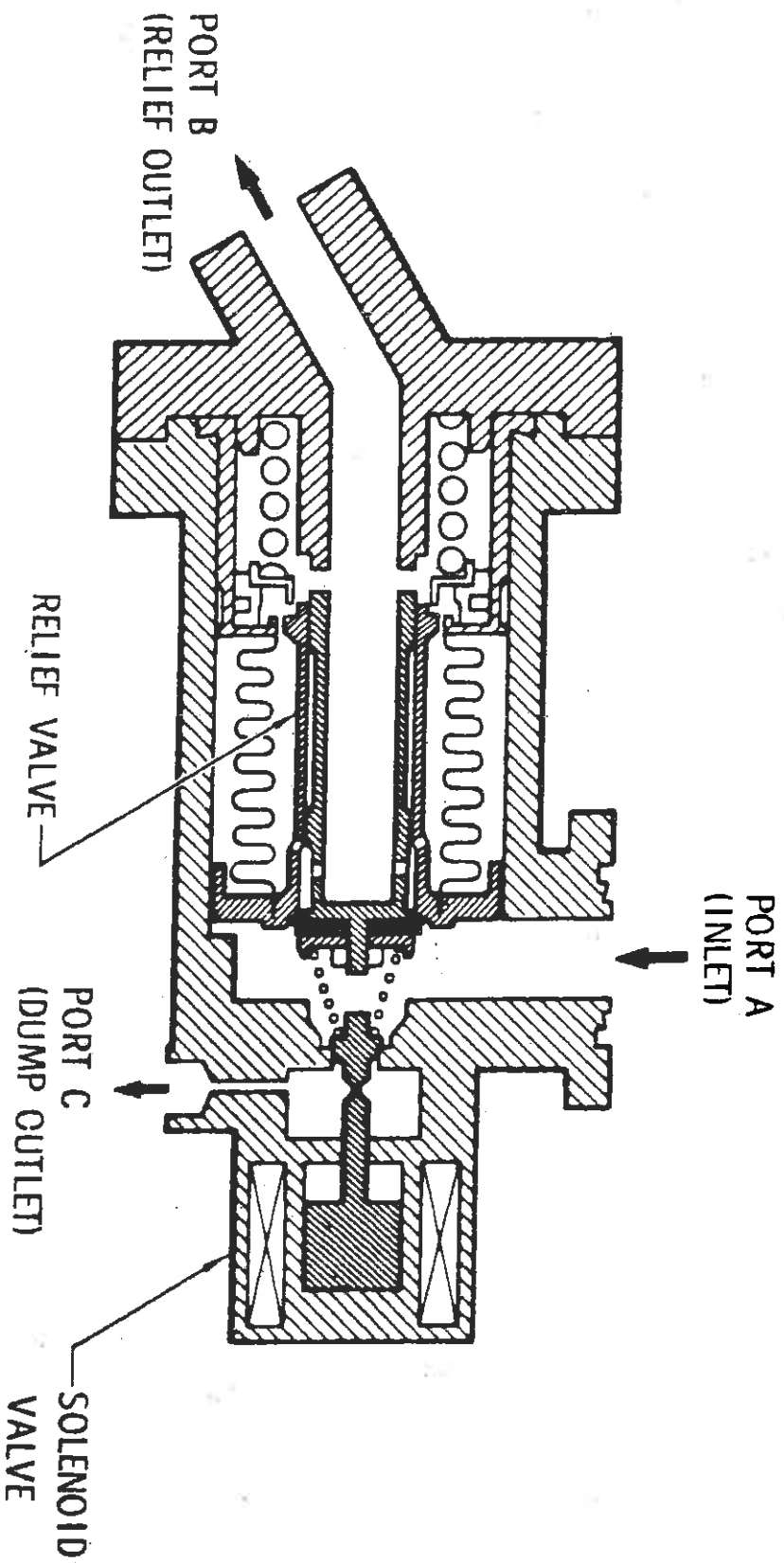


Revised August 4, 1971

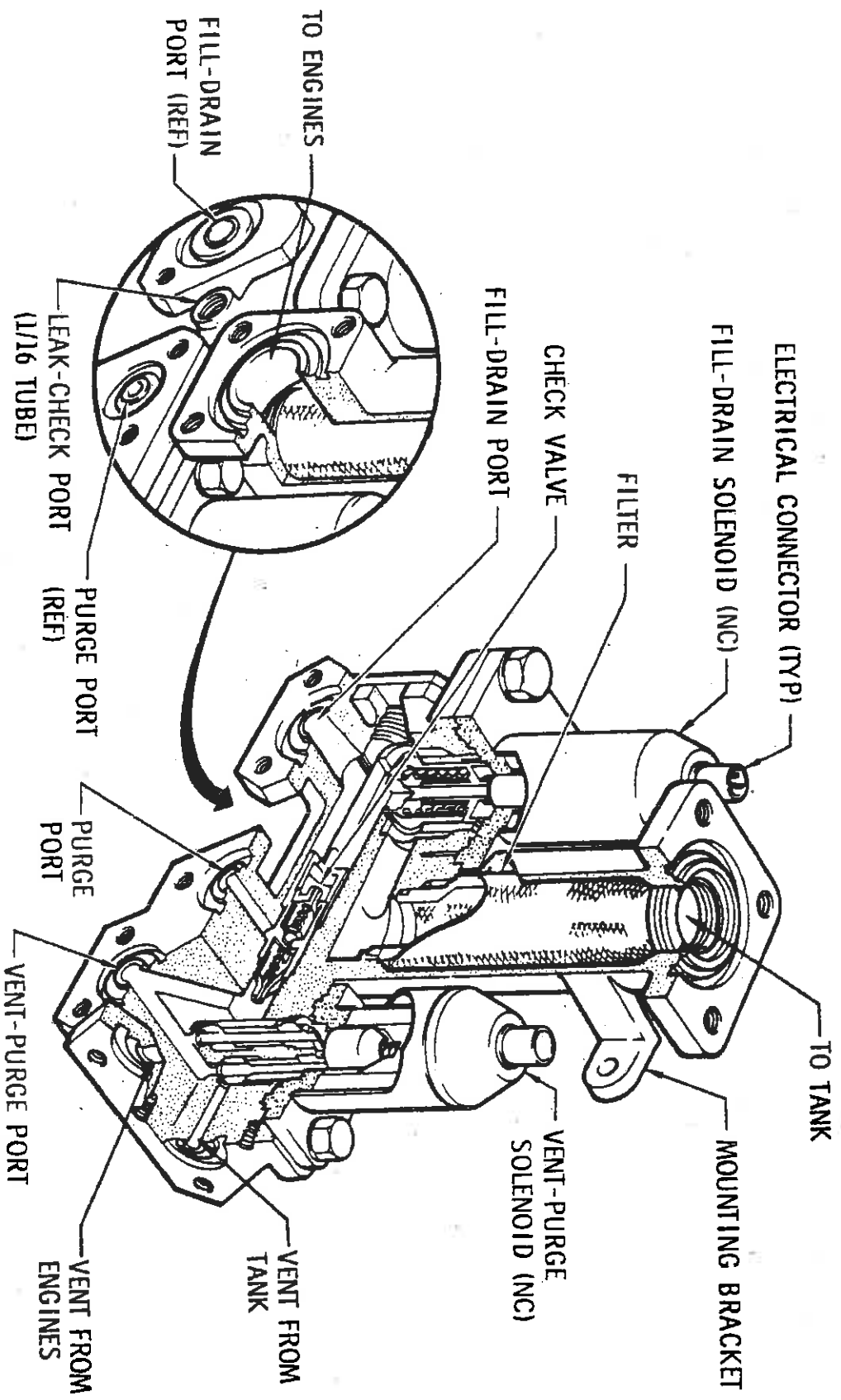
APS LOW PRESSURE HELIUM MODULE 1A49998



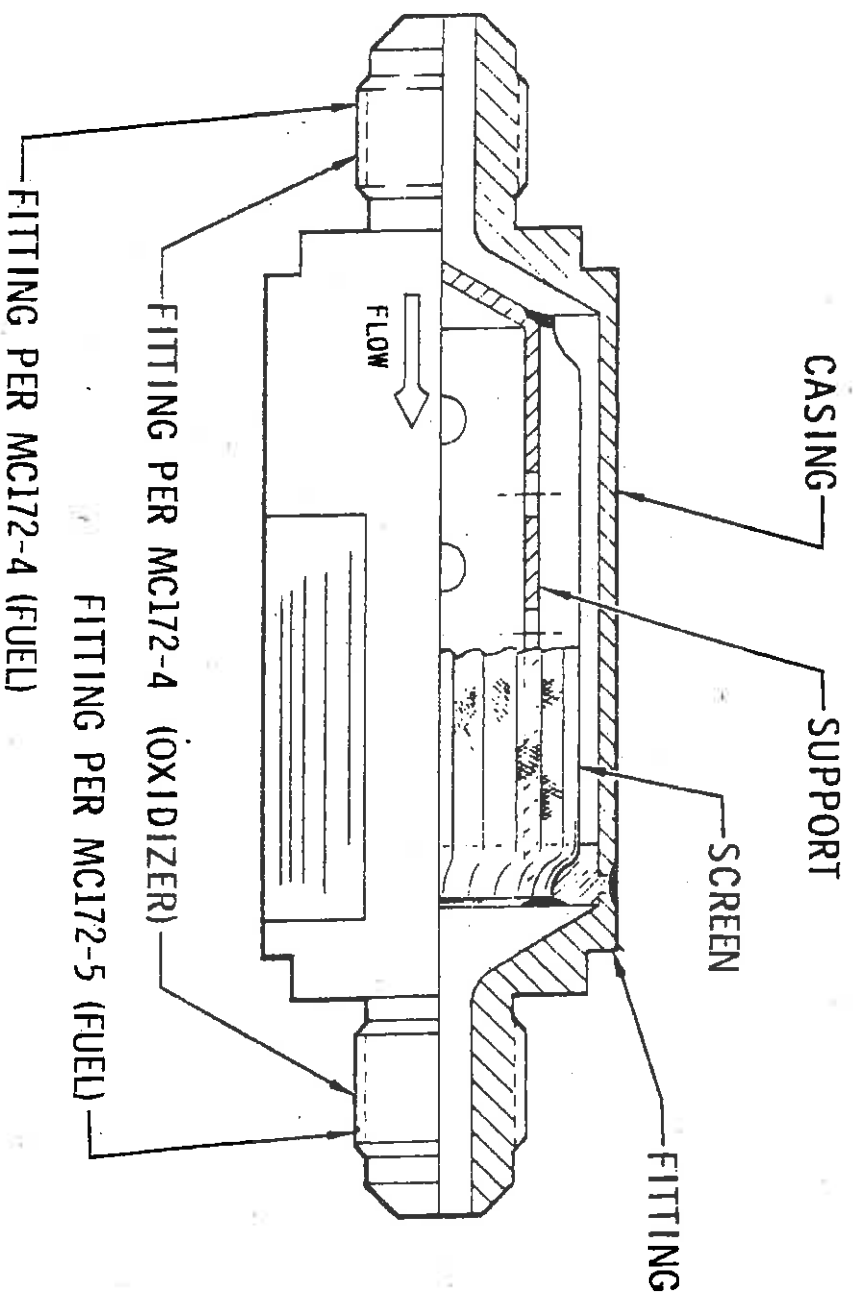
APS LOW PRESSURE HELIUM MODULE 1A49998 (SCHEMATIC)



APS PROPELLANT CONTROL MODULE 1A49422



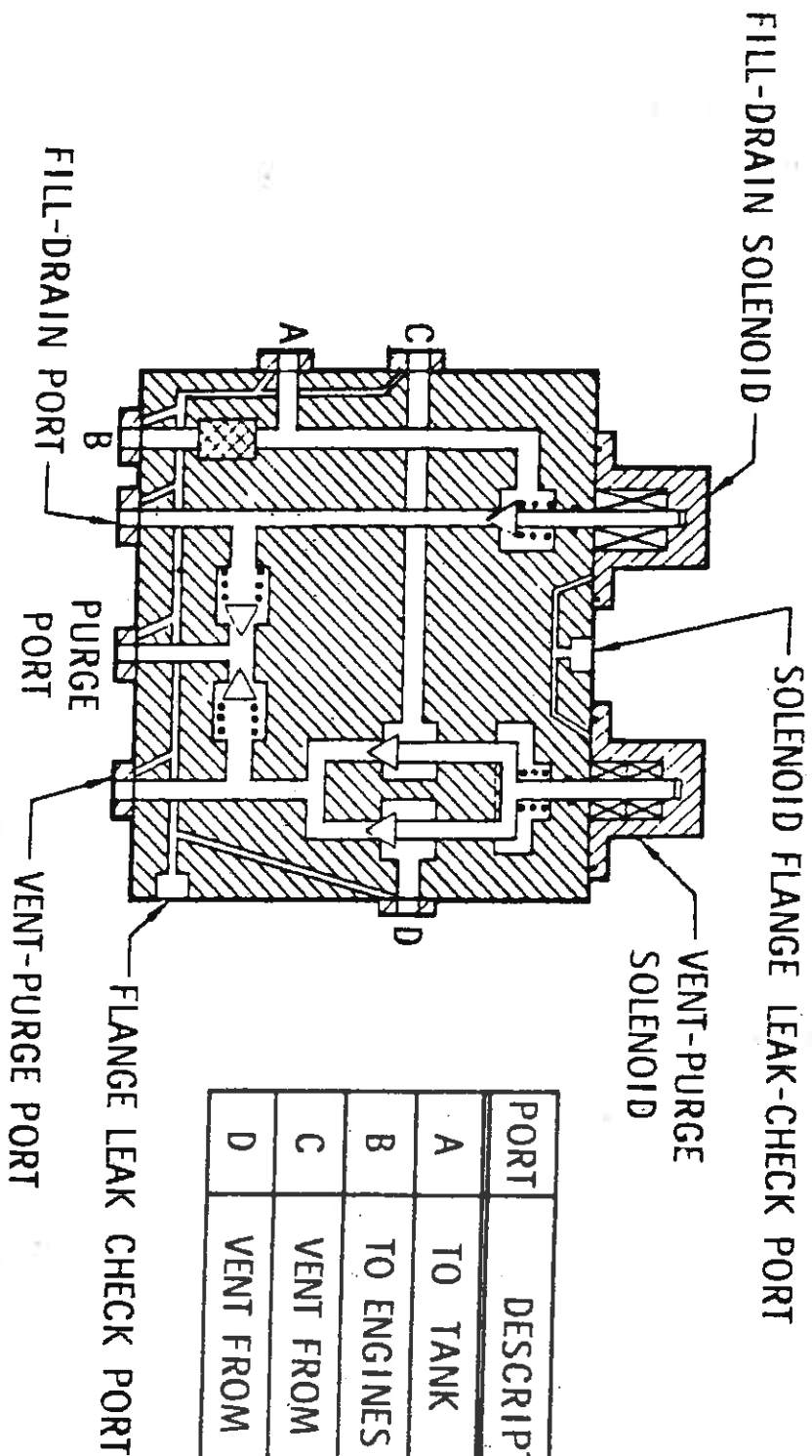
APS 25 MICRON RECIRCULATION IN-LINE FILTER 1B55934



SECTION VI

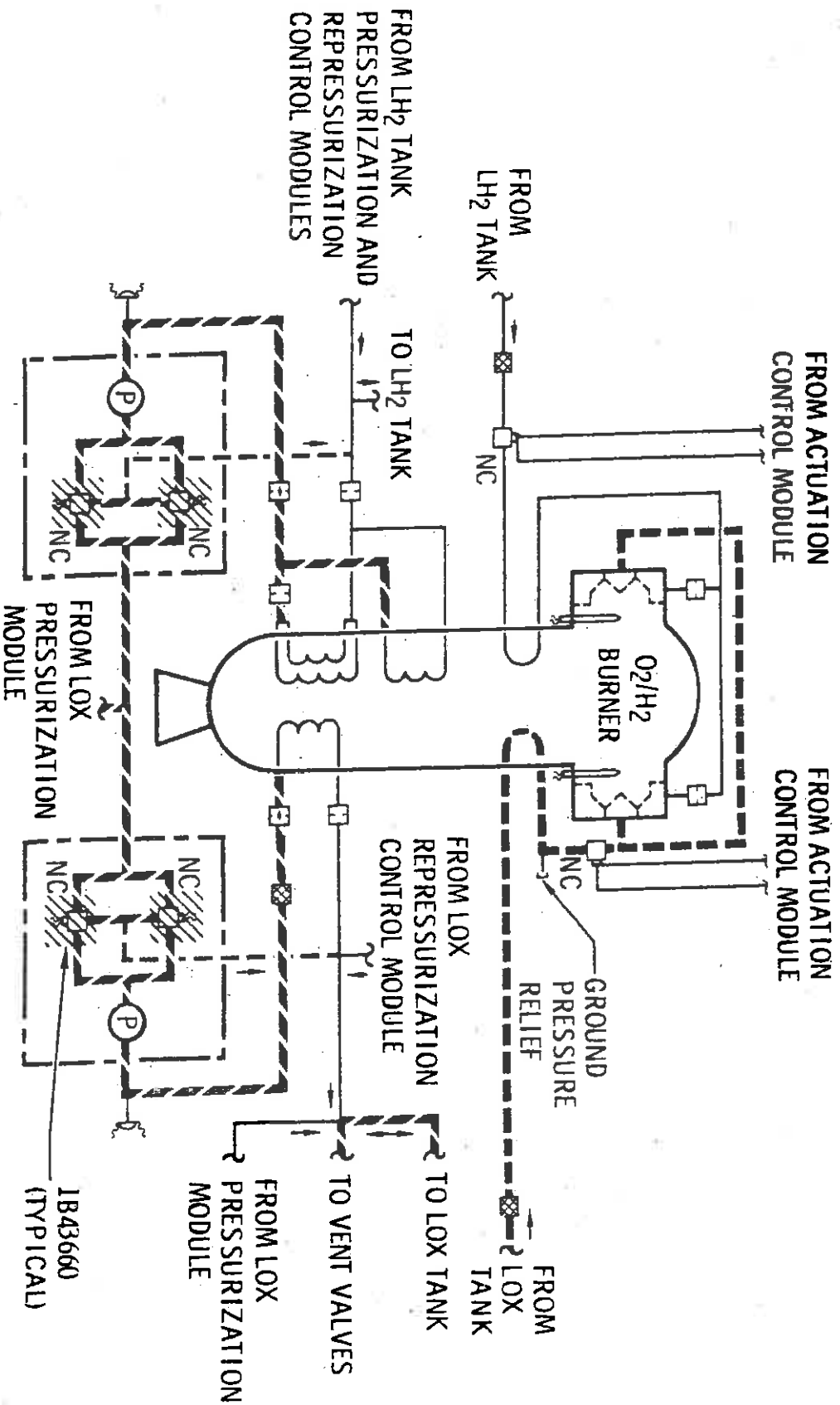
OXYGEN-HYDROGEN BURNER SYSTEM

APS PROPELLANT CONTROL MODULE **1A49422 (SCHEMATIC)**

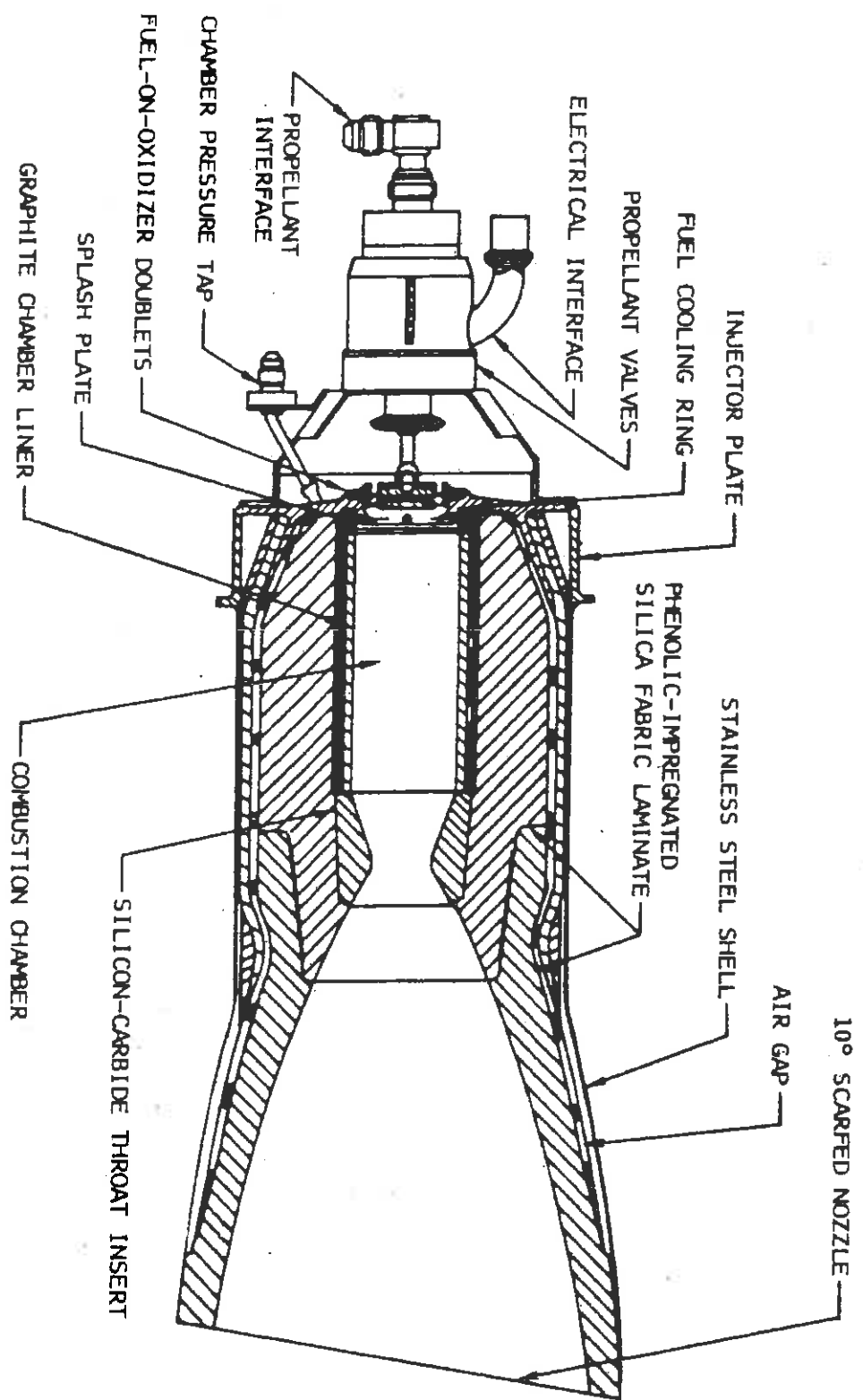


PORT	DESCRIPTION
A	TO TANK
B	TO ENGINES
C	VENT FROM TANK
D	VENT FROM ENGINES

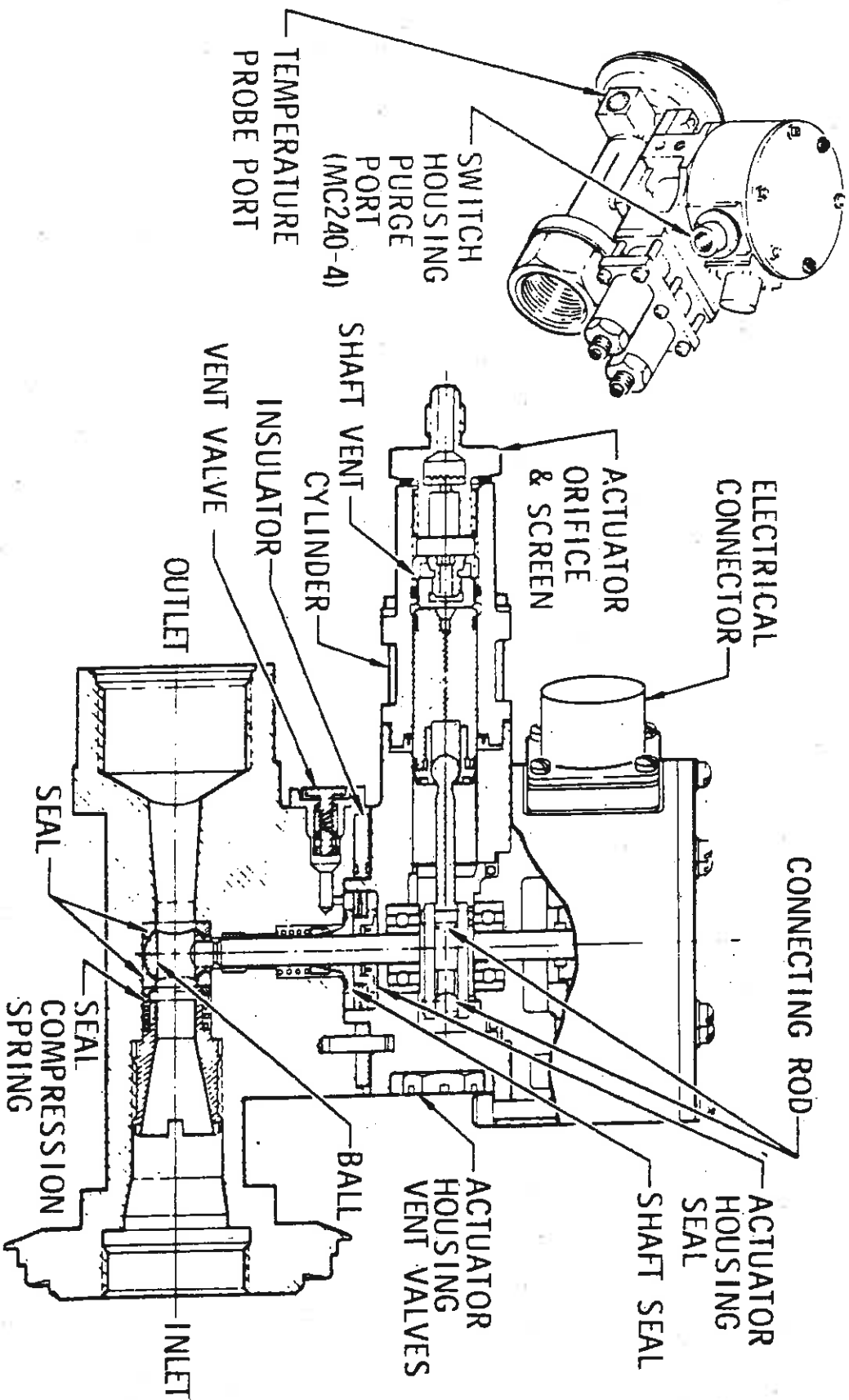
OXYGEN-HYDROGEN BURNER (SCHEMATIC)



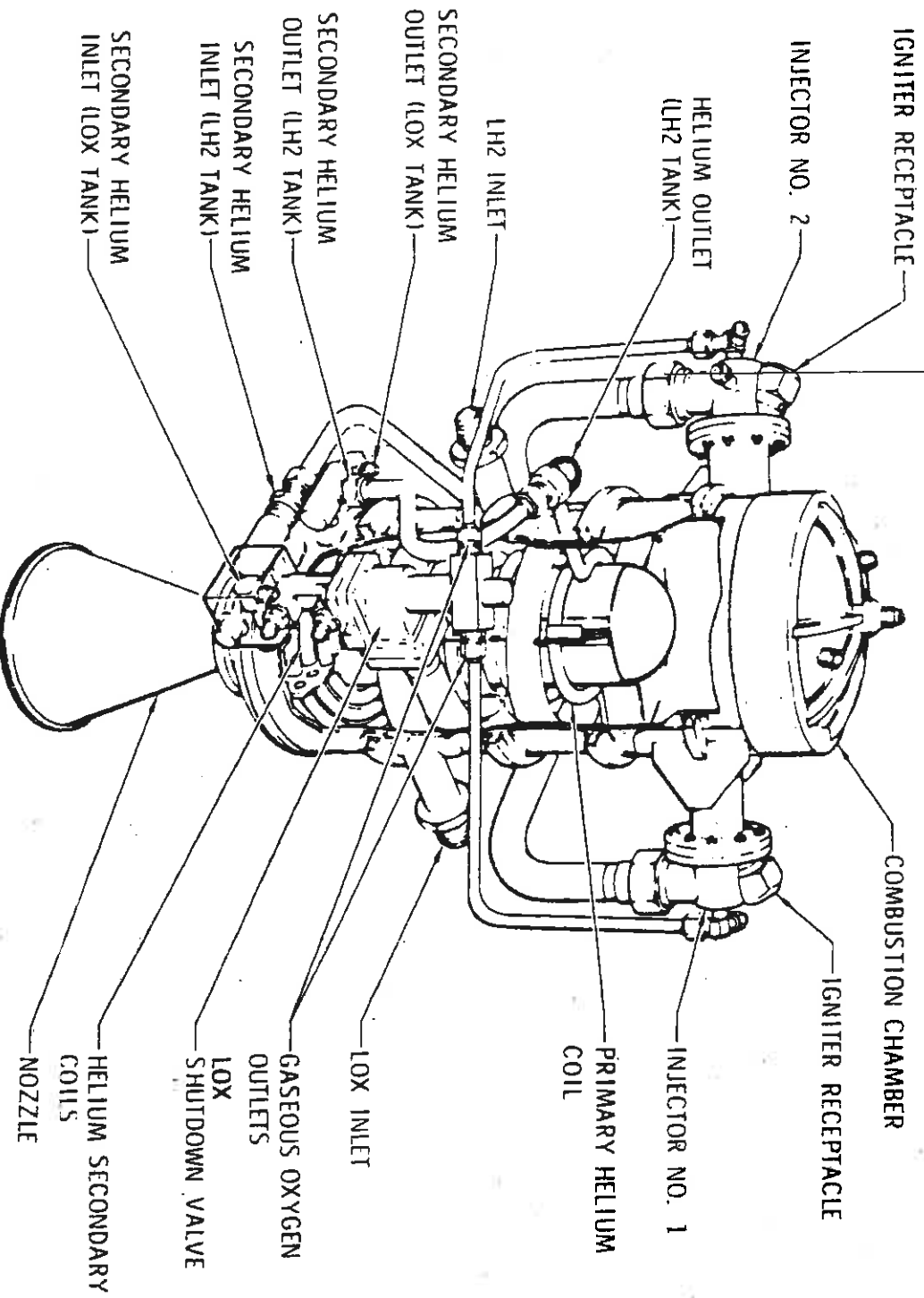
70-LBF-THRUST ULLAGE CONTROL ENGINE GFE P/N 210005



BURNER LH2 PROPELLANT VALVE 1B59010

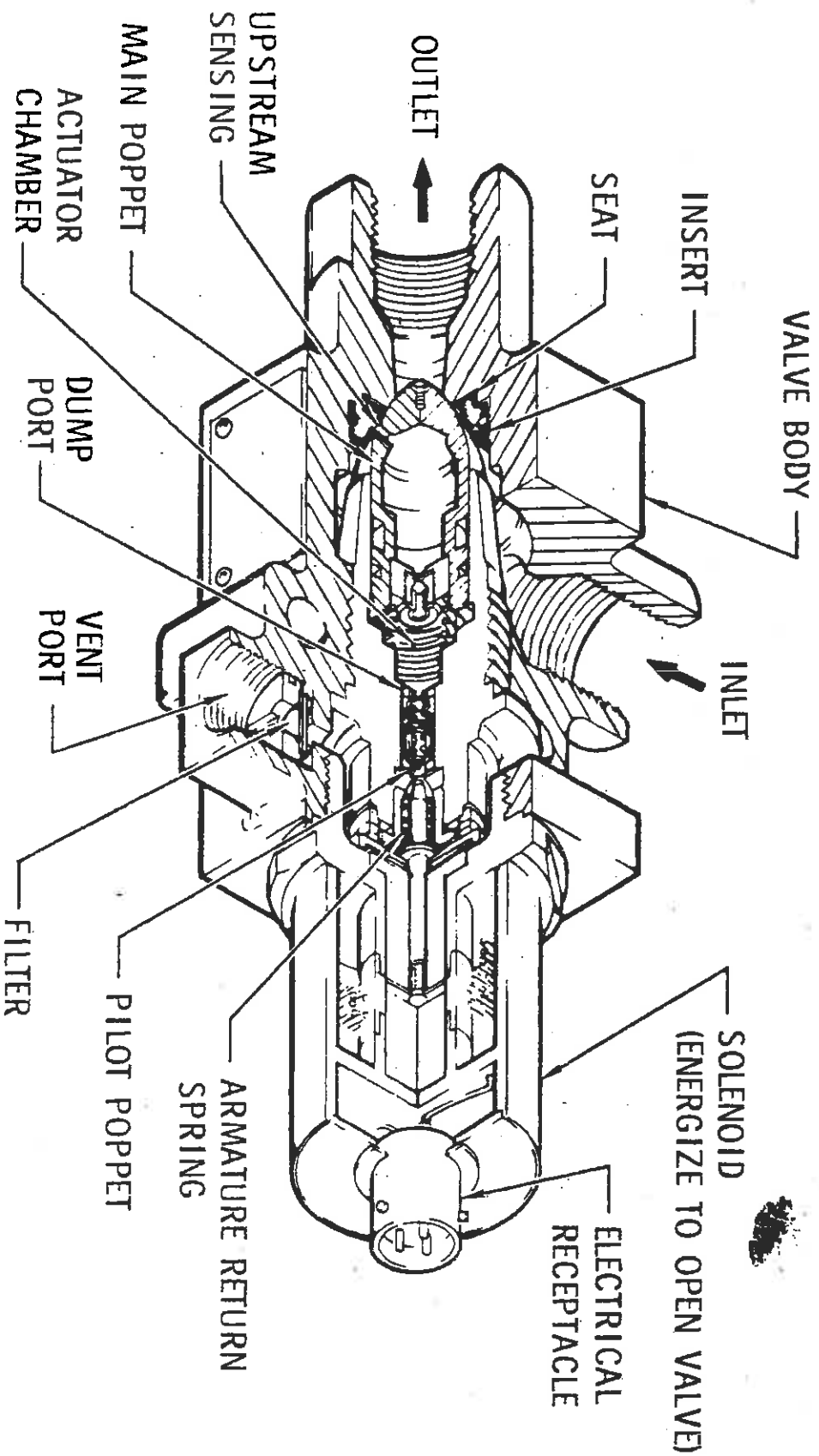


OXYGEN-HYDROGEN BURNER ASSEMBLY **(RESTARTABLE)**



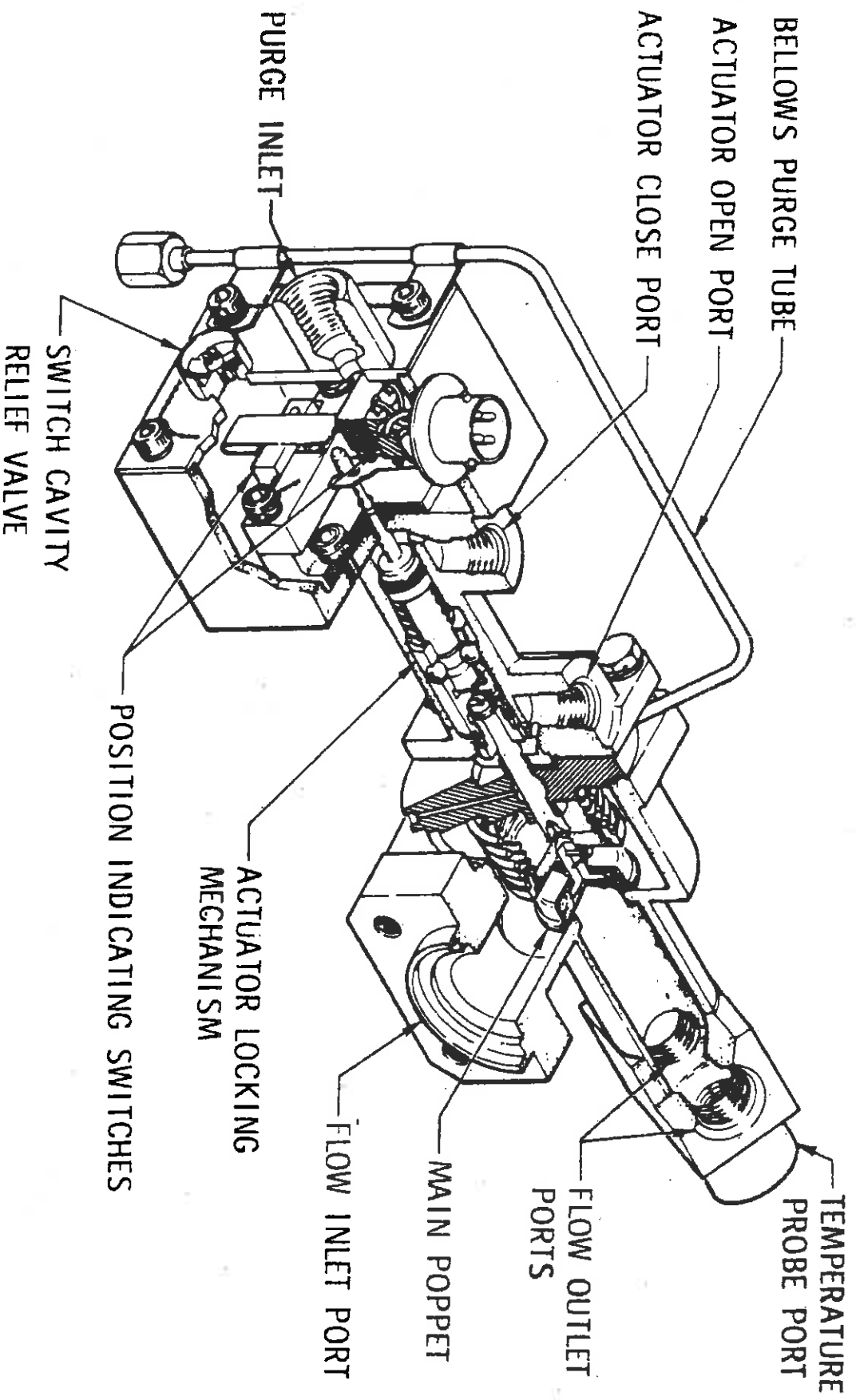
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SECTION VIII
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EE = Editor
FE = Fairchild
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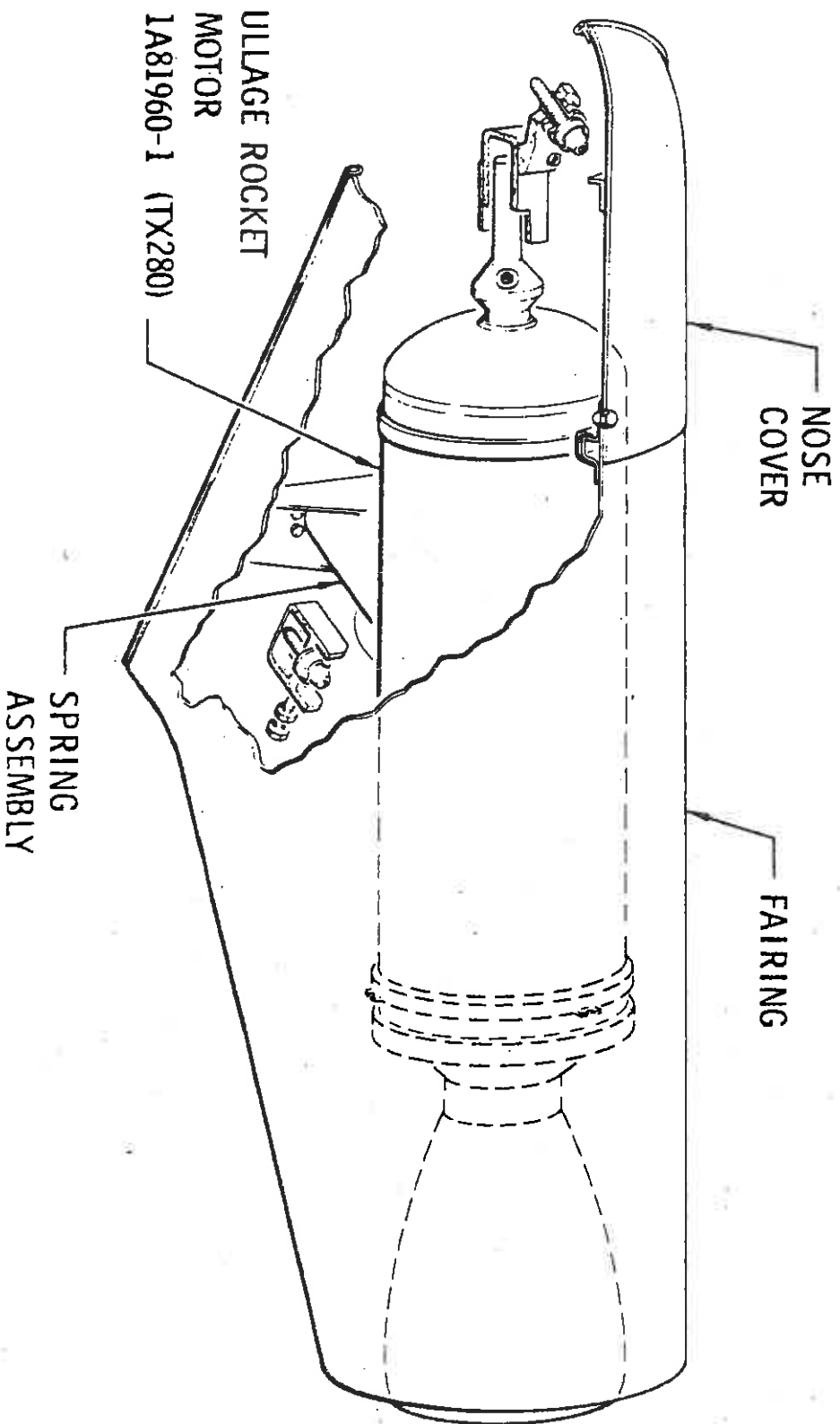
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SOLID ULLAGE ROCKET MOTOR



SECTION IV
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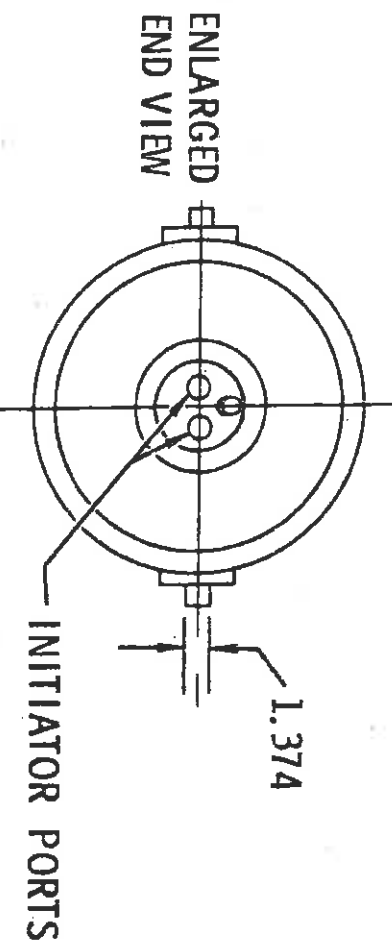
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SECTION V
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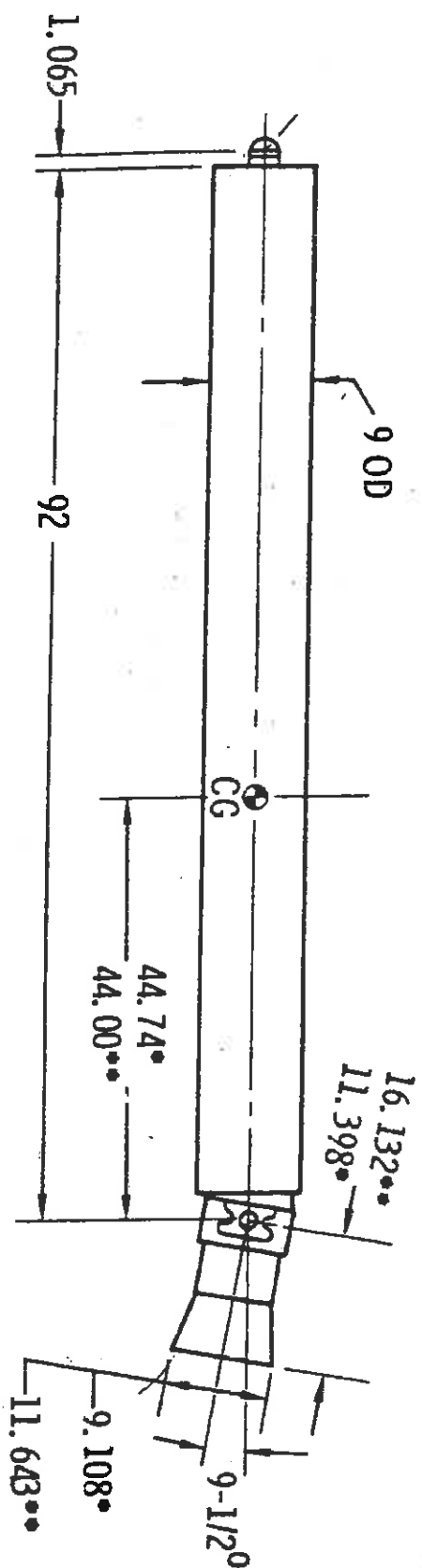
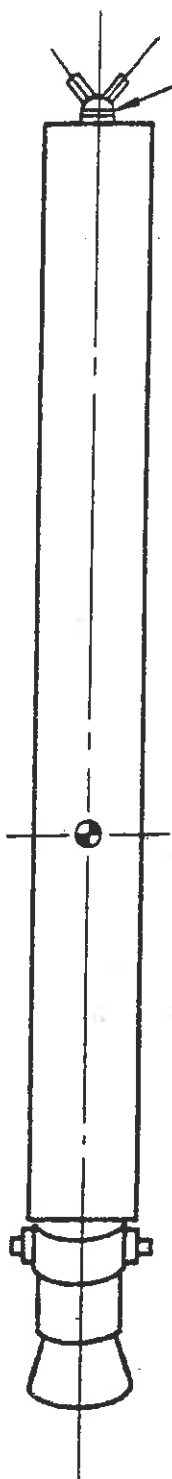
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RETROROCKET MOTOR 1A59670

• 1A59670-503
•• 1A59670-505



IGNITER BOSS



TITLE

CONTINUOUS VENT MODULE ASSEMBLY - DDN 1B67193

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ULLAGE ROCKET MOTOR

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