

A

B

C

D

E

F

A

B

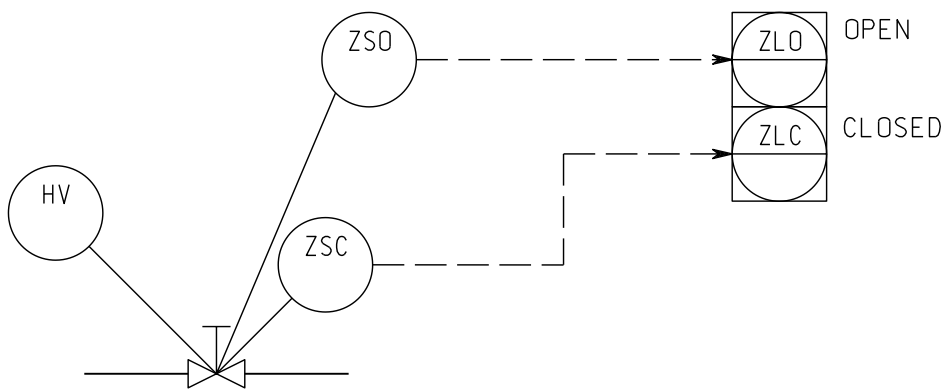
C

D

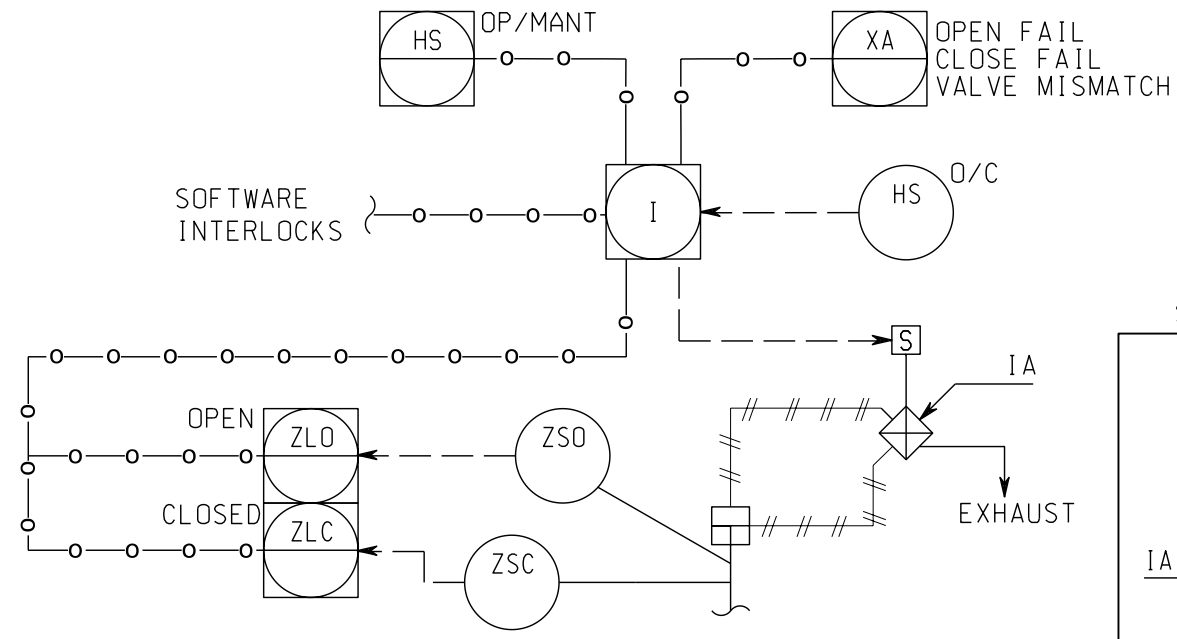
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F

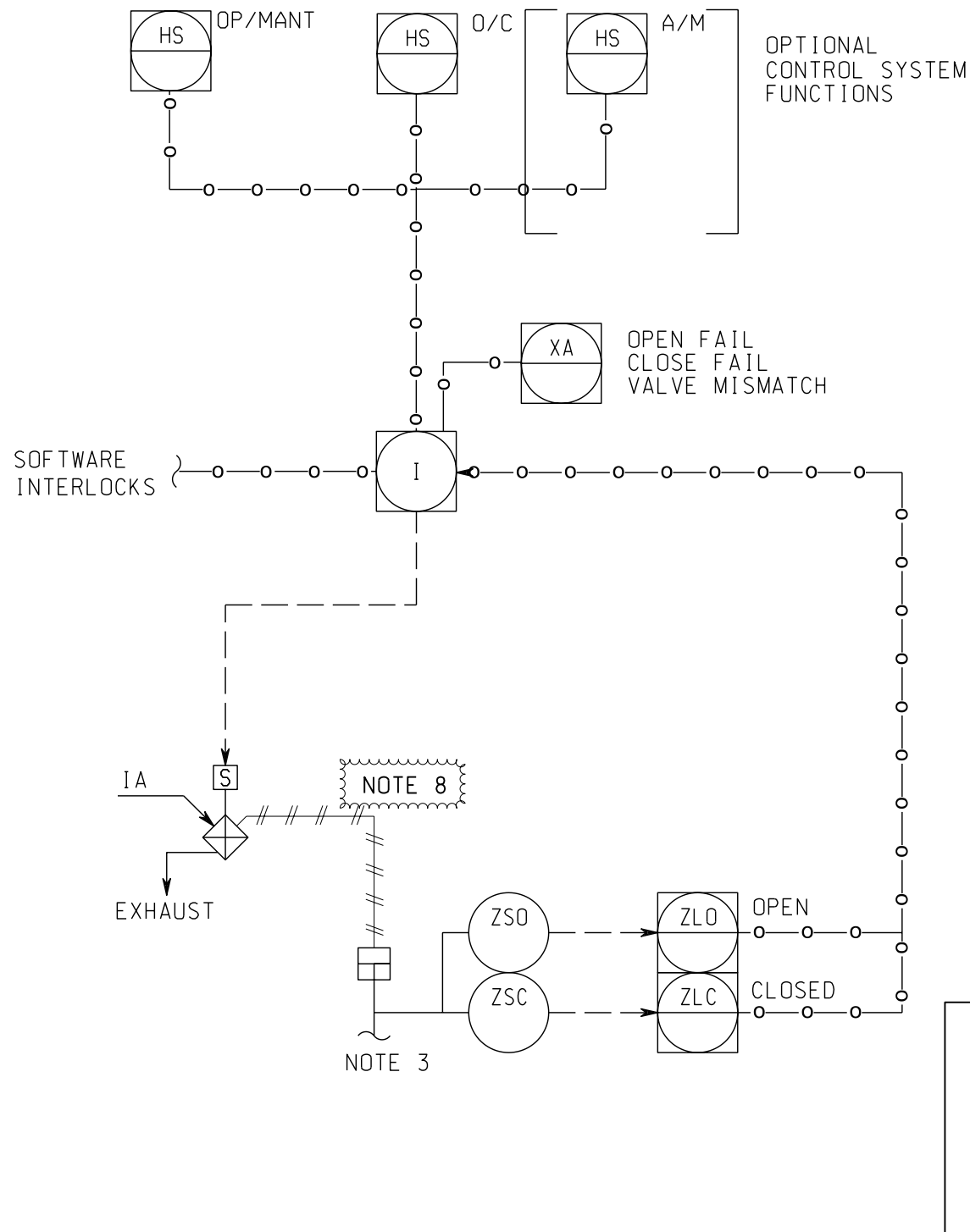
TYPE V1: MANUAL VALVE ACTUATOR WITH LIMIT SWITCHES.



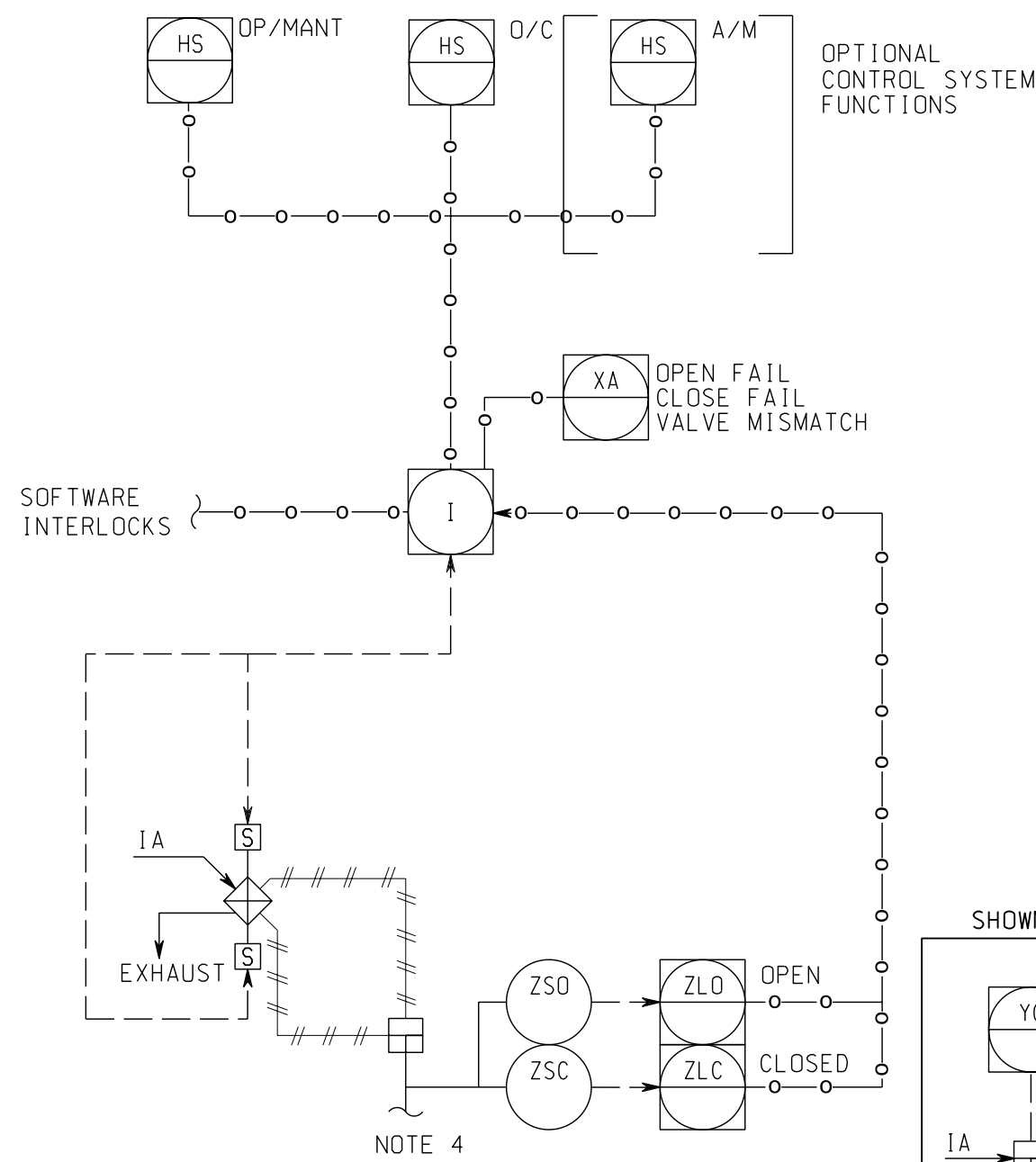
TYPE P1: PNEUMATIC OPERATED MANUAL VALVE WITH LIMIT SWITCHES.



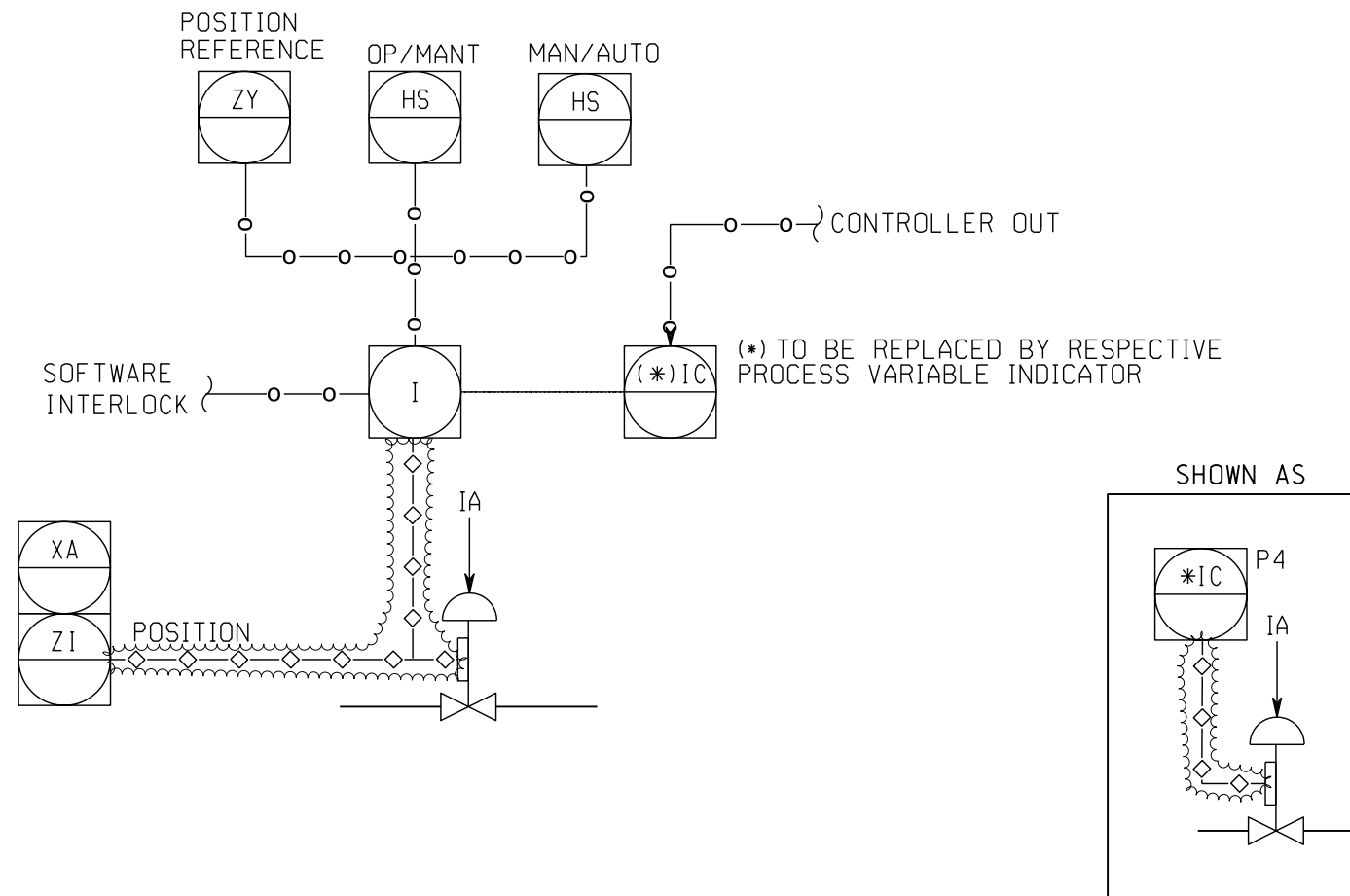
TYPE P2: PNEUMATIC SPRING RETURN ACTUATOR VALVE, WITH A SINGLE SOLENOID VALVE AND LIMIT SWITCHES, FOR REMOTE OPERATION.



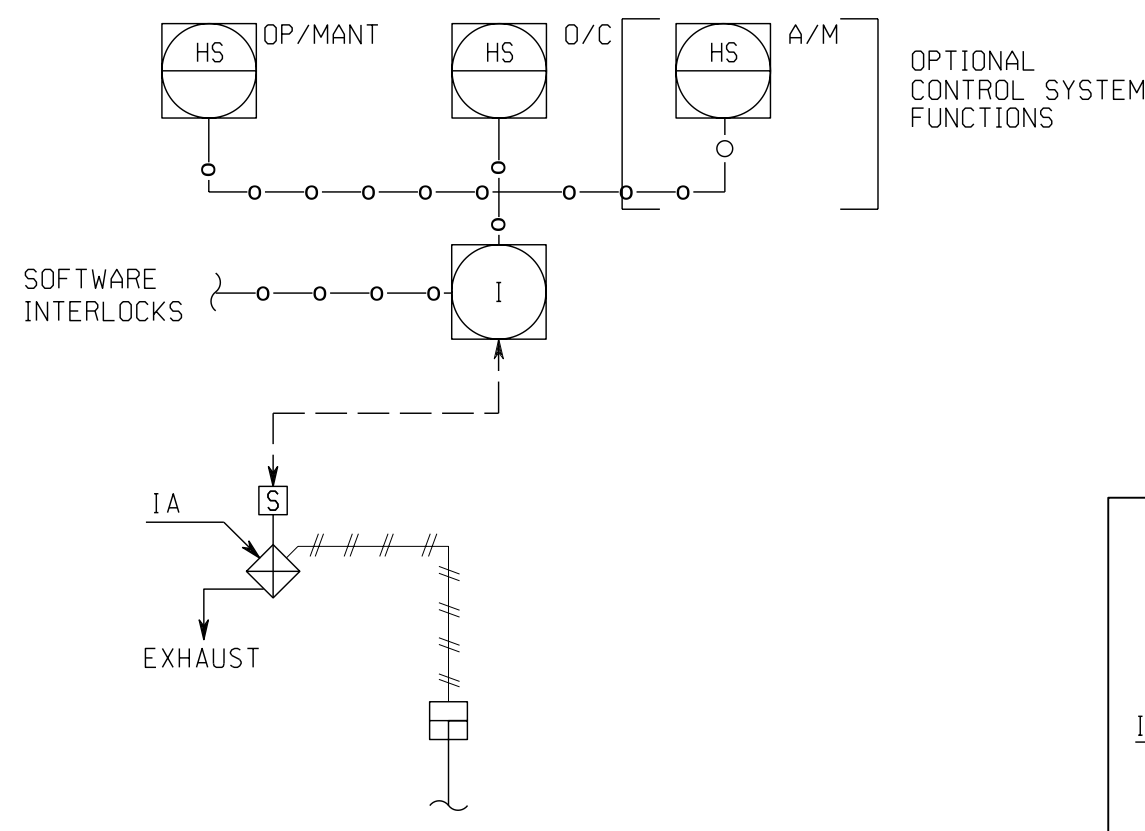
TYPE P3: PNEUMATIC DOUBLE ACTING ACTUATOR VALVE WITH DOUBLE SOLENOID VALVE, AND LIMIT SWITCHES FOR REMOTE OPERATION.



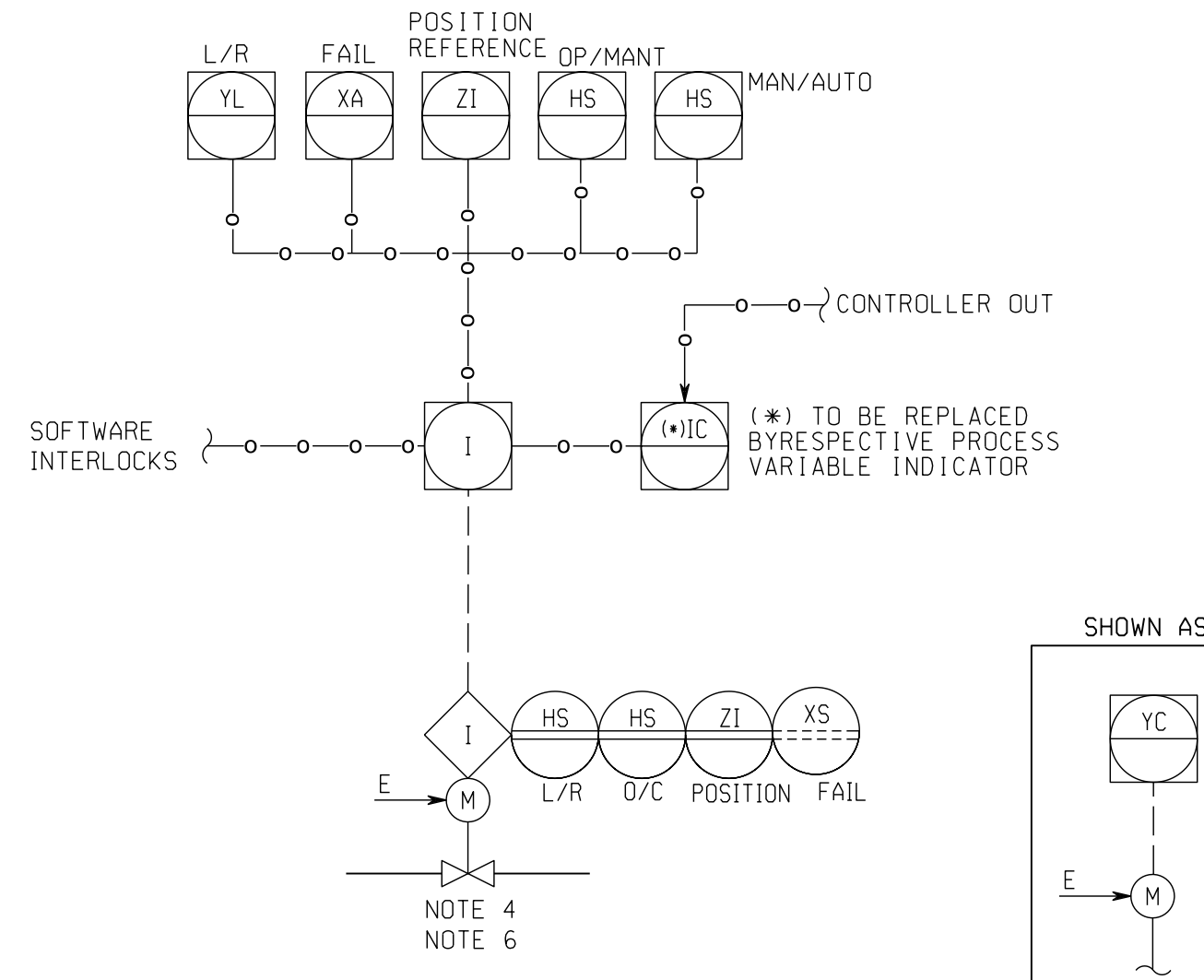
TYPE P4: PNEUMATIC ACTUATOR VALVE FOR MODULATING CONTROL.



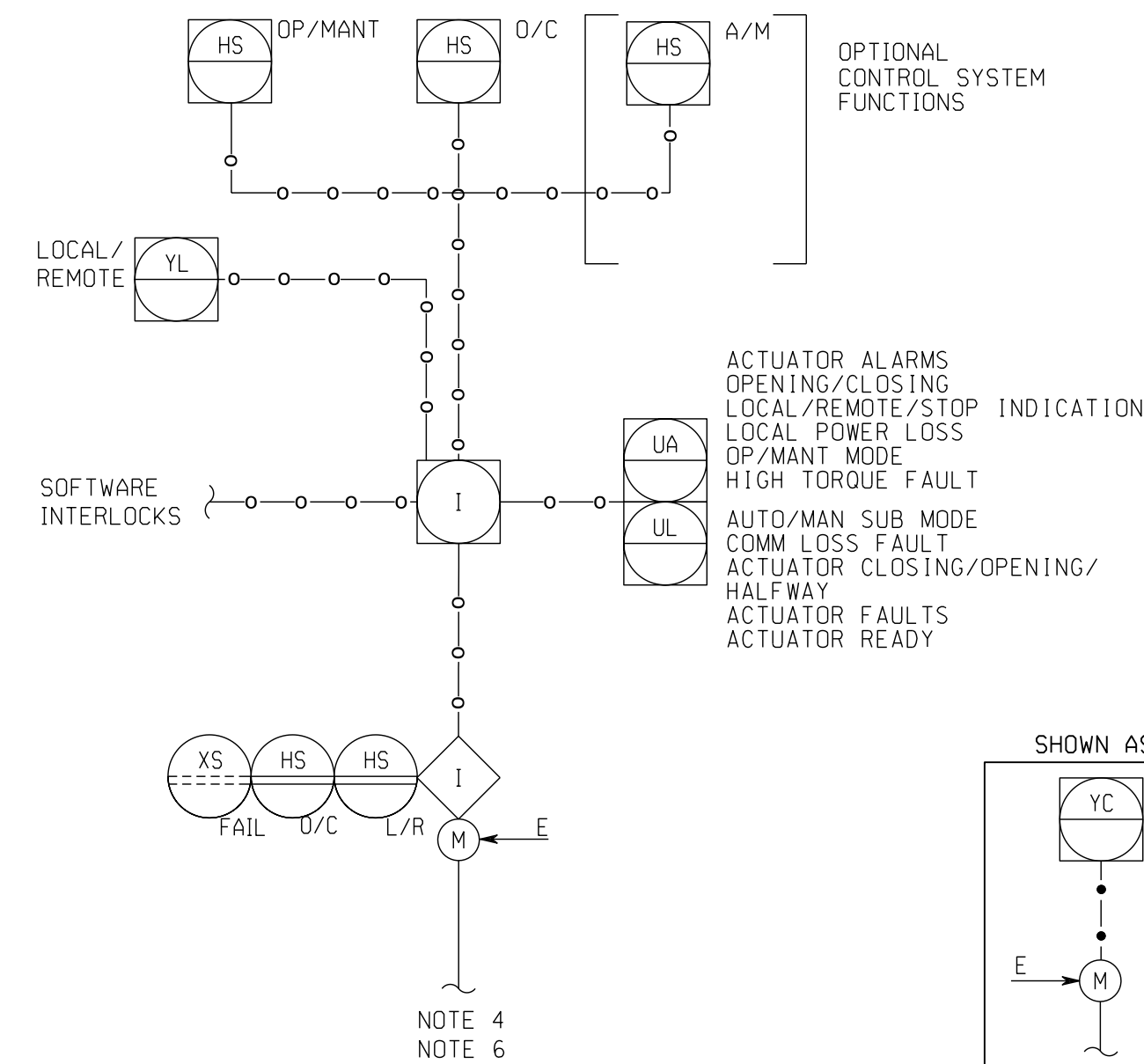
TYPE P5: PNEUMATIC SPRING RETURN ACTUATOR VALVE, WITH A SINGLE SOLENOID VALVE FOR REMOTE OPERATION.



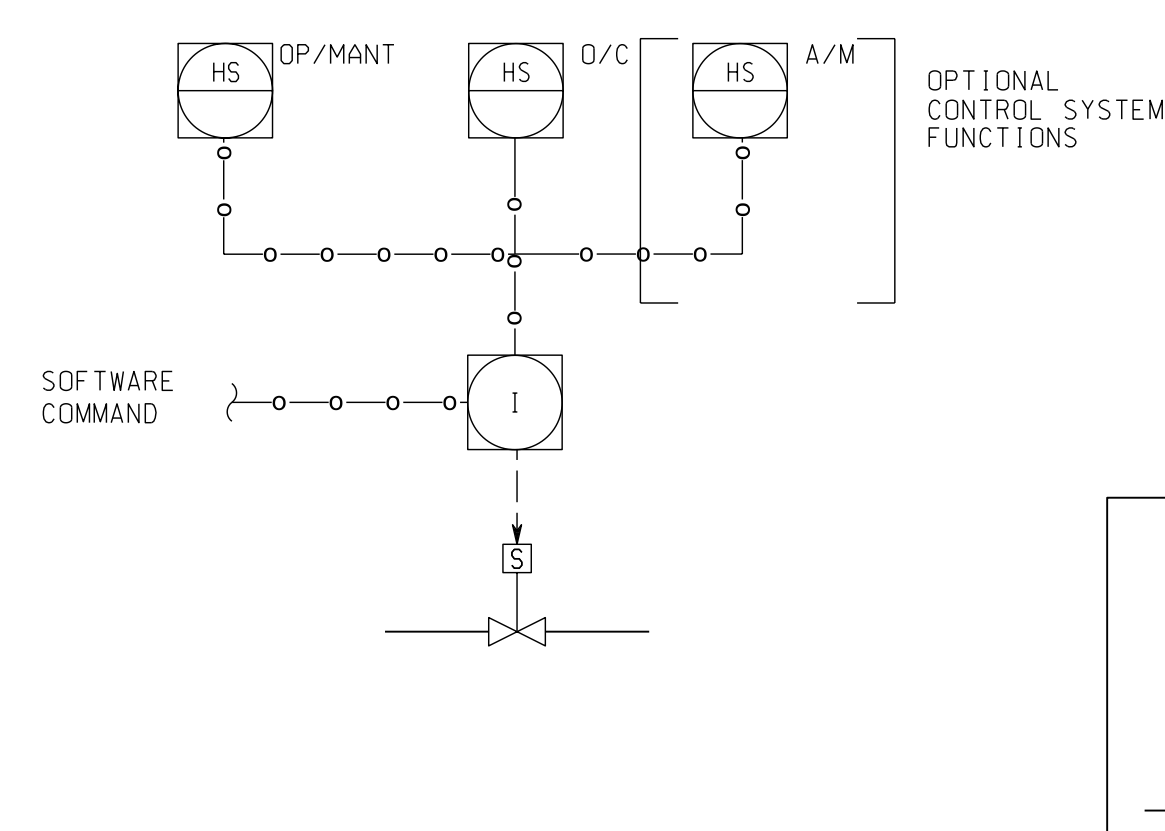
TYPE E1: ELECTRICAL ACTUATOR VALVE, FOR MODULATING CONTROL, LOCAL AND REMOTE OPERATION



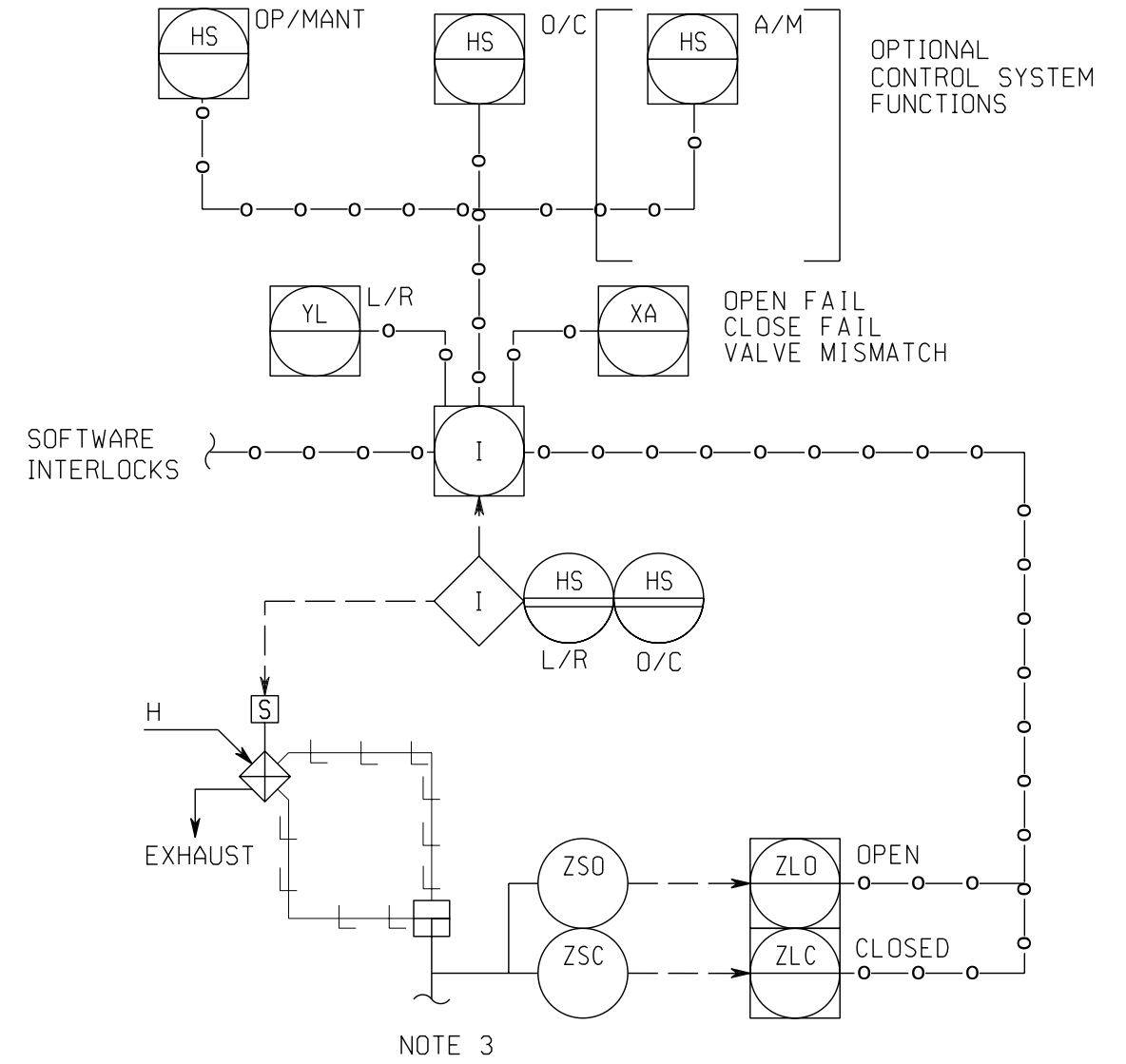
TYPE E2: ELECTRICAL ACTUATOR VALVE, FOR LOCAL AND REMOTE OPERATION.



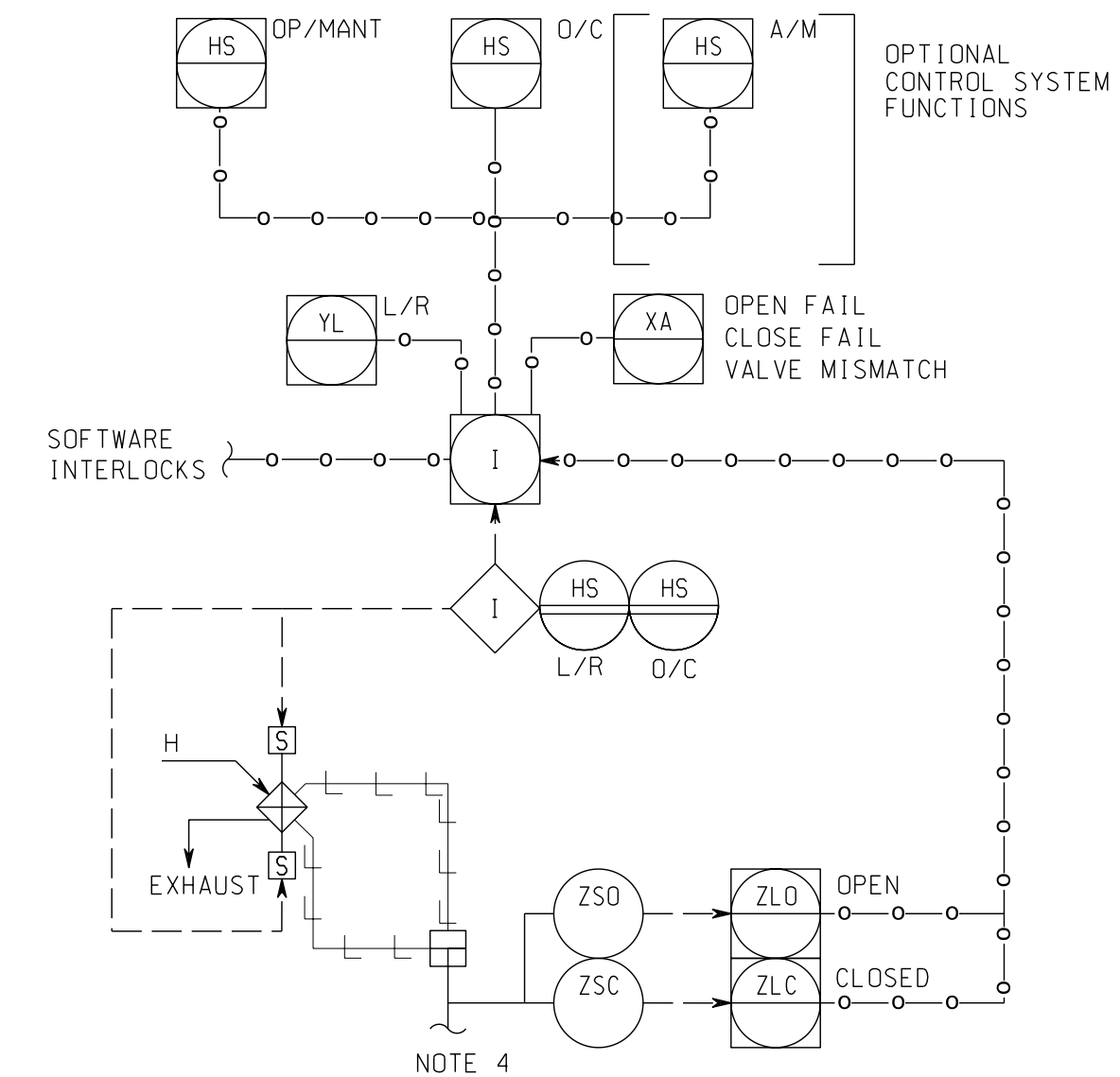
TYPE E3: SIMPLE SOLENOID PROCESS VALVE, REMOTE OPERATION.



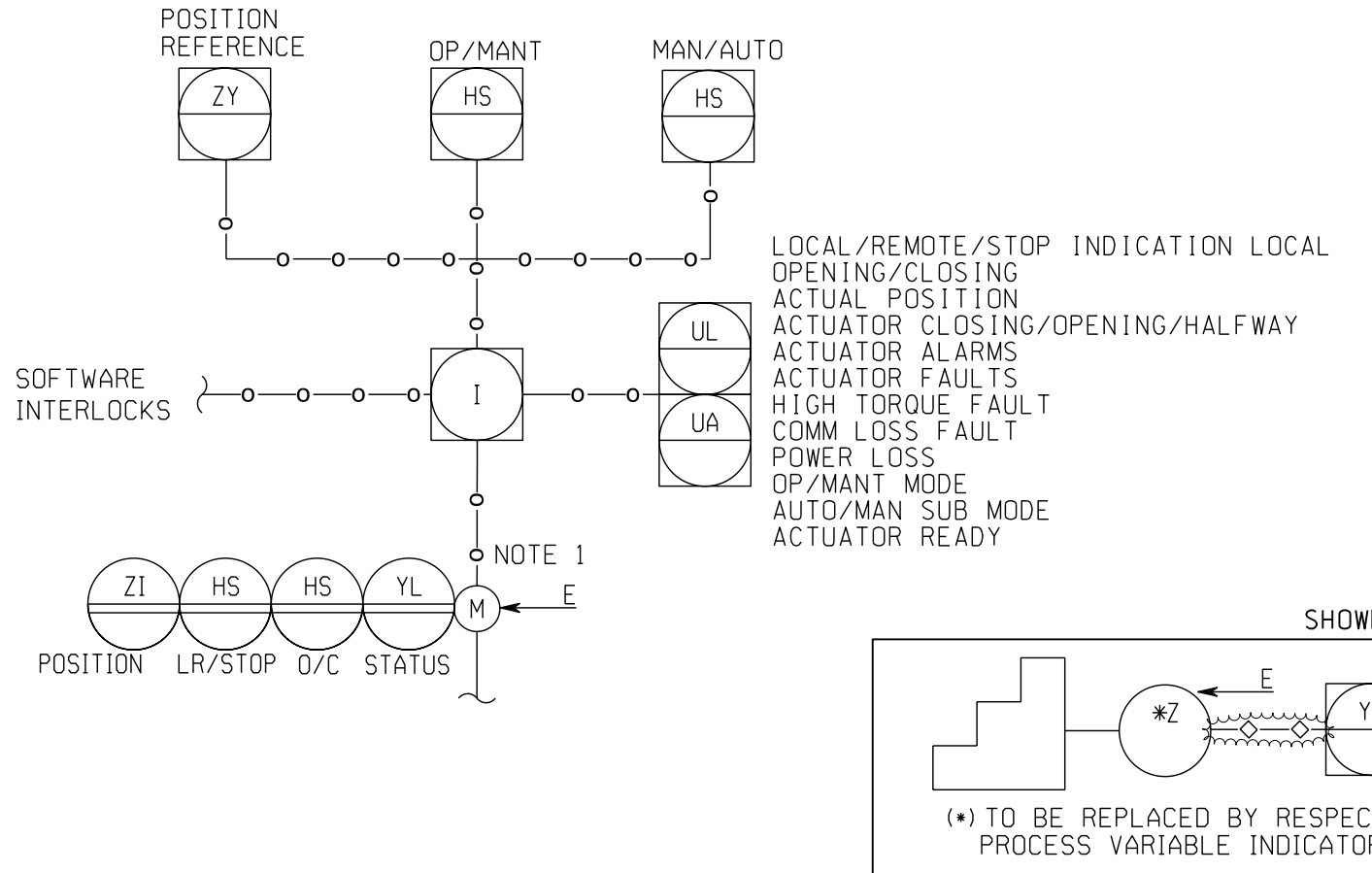
TYPE H2: HYDRAULIC ACTUATOR VALVE, WITH A SINGLE SOLENOID VALVE AND LIMIT SWITCHES, FOR LOCAL AND REMOTE OPERATION.



TYPE H3: HYDRAULIC ACTUATOR VALVE WITH DOUBLE SOLENOID VALVE AND LIMIT SWITCHES, FOR LOCAL AND REMOTE OPERATION.



TYPE E4: MODULATING ACTUATOR FOR DOSING PUMPS.



SPANISH LANGUAGE GOVERNS  
ENGLISH LANGUAGE GOVERNS

PARA REVISION FOR REVIEW

☐ Revisado / Reviewed

☐ Revisado con Comentarios Reviewed with comments

☐ Rechazado y volver a emitir Rejected, reissue

☒ Solo Informacion Information Only

Fecha / Date 17-05-2019 Firma / Signature Marcial Mendoza

NOTES:

- 1.- FOR VALVES WITH DIAMETER OF 24" AND LARGER THE USE OF A HYDRAULIC ACTUATOR (H), SHALL BE EVALUATED VALVES WITH DIAMETERS LESS THAN 24" WILL BE OPERATED PNEUMATICALLY, ACCORDING TO DATA SHEET.
- 2.- FOR VALVES CONTROLLED BY A PLC, THE DCS SYMBOL SHALL BE CHANGED TO PLC SYMBOL

- 3.- THIS VALVE WILL HAVE THE OPTION OF FAIL POSITION OPEN OR CLOSED.
- 4.- THE FAIL POSITION OF THE VALVE WILL BE ITS LAST POSITION.
- 5.- O/C : OPEN/CLOSE, L/R : LOCAL/REMOTE, A/M : AUTO/MANUAL.
- 6.- POWER SUPPLY FOR ELECTRIC ACTUATORS BY I&CS DISCIPLINE.
- 7.- DETAILED VALVE BLOCK SIGNALS ARE DESCRIBED IN DCS CONFIGURATION AND PROGRAMMING DESIGN CRITERIA.
- 8.- ONLY FOR KNIFE GATE VALVES \*PNEUMATIC SPRING\* SHALL HAVE PRESSURE SWITCH (PSL).

Fluor-Salfa

BHP MINERA SPENCE S.A.

SGO PROJECT

MINERAL PROCESS FACILITIES

CONTROL VALVES TYPICAL DIAGRAMS P&ID

CONTRACT N°: 8500135645 BHP DRWG N°: 4-V2-2000-PR-PID-000008 REV. 2

SCALE	DATE	DATE
DESIGNED BY: R. MONDAL	11-12-18	11-12-18
REVIEWED BY: J. MONDAL	11-12-18	11-12-18
ENGINEERING MGR: J. MONDAL	11-12-18	11-12-18
ENGINEERING MGR: J. MONDAL	11-12-18	11-12-18

VENDOR DRAWING N°: 4-V2-2000-PR-PID-000008

03-May-19 12:16:57

Rev. No.	DATE	REVISIONS	DIS.	REV.	D.L.	BHP	REFERENCE DOCUMENTS	BHP N°	NOTE
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