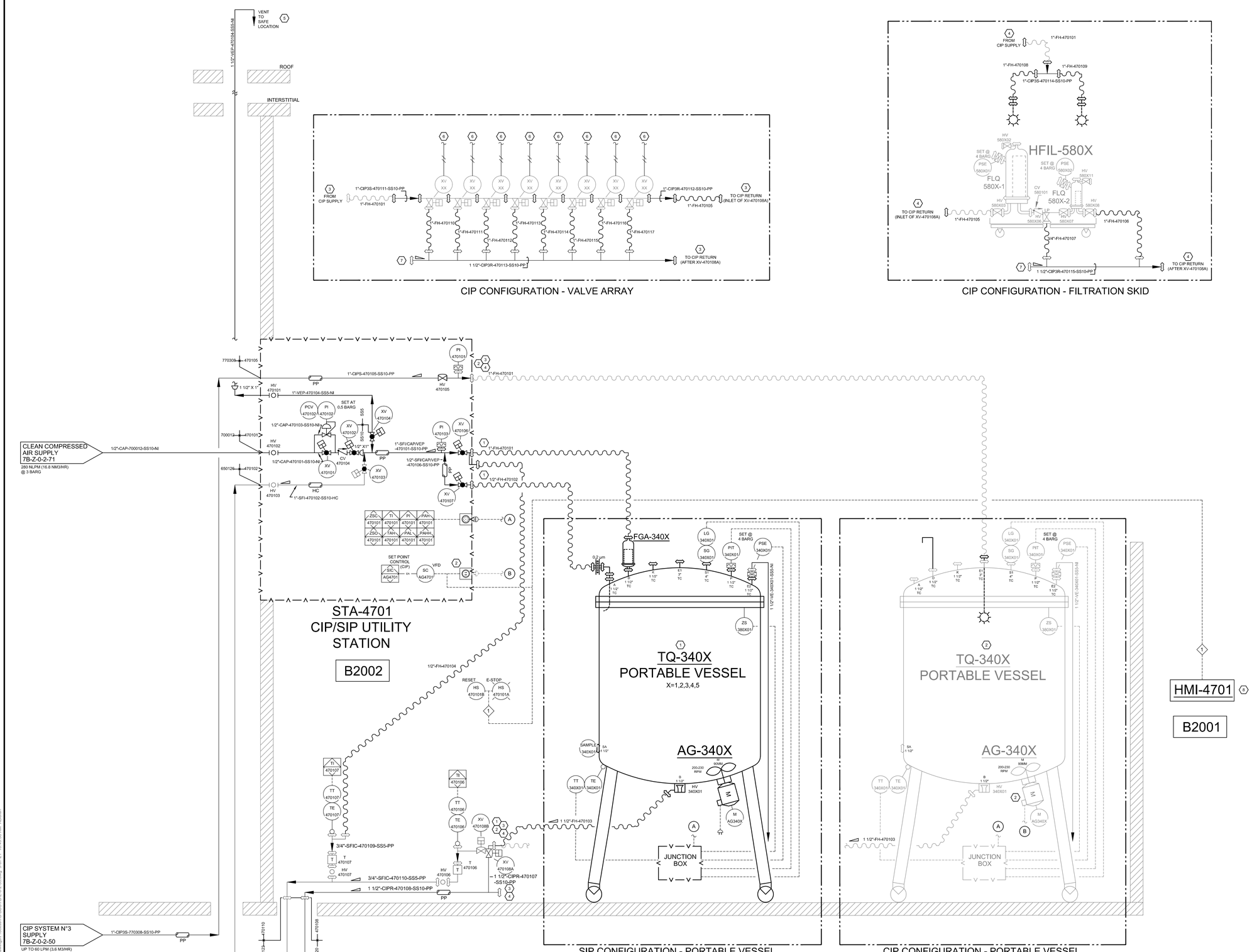

FGA-3401 VENT FILTER
TYPE HOUSE/ELEM: TEE PORT, GAS / 0.2µm
CAPACITY: 3 NM3/HR / 50 NLPM
SIZE: 1RD X 5"H
MOC: 316L HOUSING/PTFE ELEMENT
DP/DT: ≤ 0.14 BAR

AG-3401 AGIT. ASSEMBLY
TYPE: MAGNETIC
MAN./MODEL: NOVASEPTIC / GMP100
SPEED: 50-400 RPM
MOC: 316L SS
POWER: 0.25 KW, 3/60/230-400VAC

FGA-3402 VENT FILTER
TYPE HOUSE/ELEM: TEE PORT, GAS / 0.2µm
CAPACITY: 3 NM3/HR / 50 NLPM
SIZE: 1RD X 5"H
MOC: 316L HOUSING/PTFE ELEMENT
DP/DT: ≤ 0.14 BAR

FGA-3403 VENT FILTER
TYPE HOUSE/ELEM: TEE PORT, GAS / 0.2µm
CAPACITY: 3 NM3/HR / 50 NLPM
SIZE: 1RD X 5"H
MOC: 316L HOUSING/PTFE ELEMENT
DP/DT: ≤ 0.14 BAR

FGA-3404 VENT FILTER
TYPE HOUSE/ELEM: TEE PORT, GAS / 0.2µm
CAPACITY: 3 NM3/HR / 50 NLPM
SIZE: 1RD X 5"H
MOC: 316L HOUSING/PTFE ELEMENT
DP/DT: ≤ 0.14 BAR

AG-3404 AGIT. ASSEMBLY
TYPE: MAGNETIC
MAN./MODEL: NOVASEPTIC / GMP100
SPEED: 50-400 RPM
MOC: 316L SS
POWER: 0.25 KW, 3/60/230-400VAC

FGA-3405 VENT FILTER
TYPE HOUSE/ELEM: TEE PORT, GAS / 0.2µm
CAPACITY: 3 NM3/HR / 50 NLPM
SIZE: 1RD X 5"H
MOC: 316L HOUSING/PTFE ELEMENT
DP/DT: ≤ 0.14 BAR

AG-3405 AGIT. ASSEMBLY
TYPE: MAGNETIC
MAN./MODEL: NOVASEPTIC / GMP100
SPEED: 50-400 RPM
MOC: 316L SS
POWER: 0.25 KW, 3/60/230-400VAC

STA-4701 CIP/SIP UTILITY STATION
TYPE: RECESSED
MANUF: TBD
SIZE: TBD
MOC: 316L SS
POWER: TBD

TQ-3401 PORT. PRODUCT TANK
TYPE: PORTABLE, ASME PRESS. RATED
CAPACITY: 50L WORKING
SIZE: 406 mm X 400 mm TT
MOC: 316L SS
RATING: 4 BARG, F.V.

TQ-3402 PORT. PRODUCT TANK
TYPE: PORTABLE, ASME PRESS. RATED
CAPACITY: 50L WORKING
SIZE: 406 mm X 400 mm TT
MOC: 316L SS
RATING: 4 BARG, F.V.

AG-3402 AGIT. ASSEMBLY
TYPE: MAGNETIC
MAN./MODEL: NOVASEPTIC / GMP100
SPEED: 50-400 RPM
MOC: 316L SS
POWER: 0.25 KW, 3/60/230-400VAC

TQ-3403 PORT. PRODUCT TANK
TYPE: PORTABLE, ASME PRESS. RATED
CAPACITY: 50L WORKING
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TYPE: PORTABLE, ASME PRESS. RATED
CAPACITY: 50L WORKING
SIZE: 406 mm X 400 mm TT
MOC: 316L SS
RATING: 4 BARG, F.V.

Robert L. De Simoni Jr.

ISSUED FOR CONSTRUCTION

SEAL

THIS IS NOT A SEALED DOCUMENT

DATE:

GENERAL NOTES:

1 ALL COMPONENT & EQUIPMENT NUMBERS ARE PRECEDED BY "7B" TO REPRESENT THE BULK DRUG SUBSTANCE (BDS) BUILDING.
2 ALL AUTOMATIC VALVES FAIL CLOSED (F.C.) UNLESS NOTED FAIL OPEN (F.O.).
3 LAST LINE NUMBER: 470115
4 LINE NUMBER NOT USED: NONE
5 LAST AUTO VALVE NUMBER: XV-470108
6 AUTO VALVE NUMBERS NOT USED: XV-470105
7 LAST MANUAL VALVE NUMBER: HV-470107
8 MANUAL VALVE NUMBERS NOT USED: HV-470104

SHEET NOTES

1 VESSEL SIP SET-UP:
- INSTALL HOSES FROM SIP CONNECTION ON CIP/SIP STATION TO LIQUID AND VENT FILTER.
- INSTALL HOSE FROM CIP/SIP STATION TO CONDENSATE DRAIN.
- INSTALL HOSE FROM PORTABLE VESSEL DRAIN TO CONDENSATE DRAIN.
- CONNECT CONTROL CABLE FROM PORTABLE VESSEL JUNCTION BOX TO STATION PANEL.

2 VESSEL CIP SET-UP:
- INSTALL SPRAY-BALL ASSEMBLY.
- REMOVE VENT FILTER, LIQUID FILTER, NO FOAM INLET, AND SAMPLE SYSTEM.
- INSTALL GOOSE-NECK ASSEMBLY ON VENT FILTER CONNECTION.
- INSTALL HOSE FROM CIP CONNECTION ON CIP/SIP STATION TO THE SPRAYBALL ASSEMBLY.
- INSTALL CIP RETURN HOSE.
- CONNECT POWER AND CONTROL CABLE FROM PORTABLE VESSEL JUNCTION BOX TO STATION PANEL.

3 VALVE ARRAY CIP SET-UP:
- INSTALL HOSE FROM CIP CONNECTION ON CIP/SIP STATION TO MANIFOLD.
- INSTALL CIP RETURN HOSE AND CIP RETURN LINE.
- INSTALL VALVES.
- INSTALL VALVE CIP RETURN HOSES TO CIP RETURN MANIFOLD.

4 FILTRATION SKID CIP SET-UP:
- REMOVE FILTER ELEMENTS.
- INSTALL SPRAYBALL ASSEMBLY.
- INSTALL CIP RETURN HOSES AND CIP RETURN LINE.
- INSTALL HOSE FROM CIP CONNECTION ON CIP/SIP STATION TO SPRAYBALL ASSEMBLY.

5 VENT TO SAFE LOCATION. VENTS TO THE EXTERIOR OF THE BUILDING SHALL BE INSTALLED WITH A BIRD SCREEN. LOCAL VENT AND DRAIN PIPING TO BE ROUTED AFTER EQUIPMENT IS SET IN FINAL LOCATION. PIPING IS NOT DETAILED ON ROUTING PLANS.

6 TO LOCAL SOLENOID PANEL STATION

7 CAPPED TRI-CLAMP CONNECTION

8 HMI TO INCLUDE PROGRAMMING FOR THE DIFFERENT EQUIPMENT CONFIGURATIONS, E.G. CIP OR SIP OF 50L PORTABLE VESSEL, CIP OR SIP OF 150L PORTABLE (SLURRY) VESSEL, CIP OF VALVE ARRAY, AND CIP OF FILTRATION SKID.

! INTERLOCKS

1 SAFETY INTERLOCK - E-STOP ACTIVATION REMOVES AIR TO ALL ACTUATED VALVES AND DE-ENERGIZES ALL MOTORS (HARDWIRED).

ips
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REVISION	DATE	DESCRIPTION	BY
A	01JUL2020	50% BD ISSUE	JJR
B	28AUG2020	90% BD ISSUE	JJR
C	27NOV2020	DESIGN ISSUE	JJR
D	12FEB2021	30% DD ISSUE	RLD
E	12AUG2021	90% DD ISSUE	RLD
G	09SEP2021	CONSTRUCTION ISSUE	RLD

TESSLER engenharia
R. Dr. Cesário Mota Júnior, 424 - Vila Buarque, São Paulo - SP, 01223-020

REVISION HISTORY

1 REV. 0 - NONE.

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CLIENT
Takeda
Hemobrás
Empresa Brasileira de Hemoderivados e Biotecnologia

BURITI EPCMV

DRAWING TITLE
P&I DIAGRAM DRUG SUBSTANCE PORTABLE VESSEL CIP/SIP STATION, STA-4701

ENGINEER	ARCHITECT	DESIGNER	IPS PROJECT #
JJR	BJR	RBN	ITD19439.01
DRAWN BY	REVIEWED BY	SCALE	CADD FILE NAME
LG	GJC	NONE	7B-Z-0-2-55

XREF FILE(S)

DRAWING NUMBER
7B-Z-0-2-55