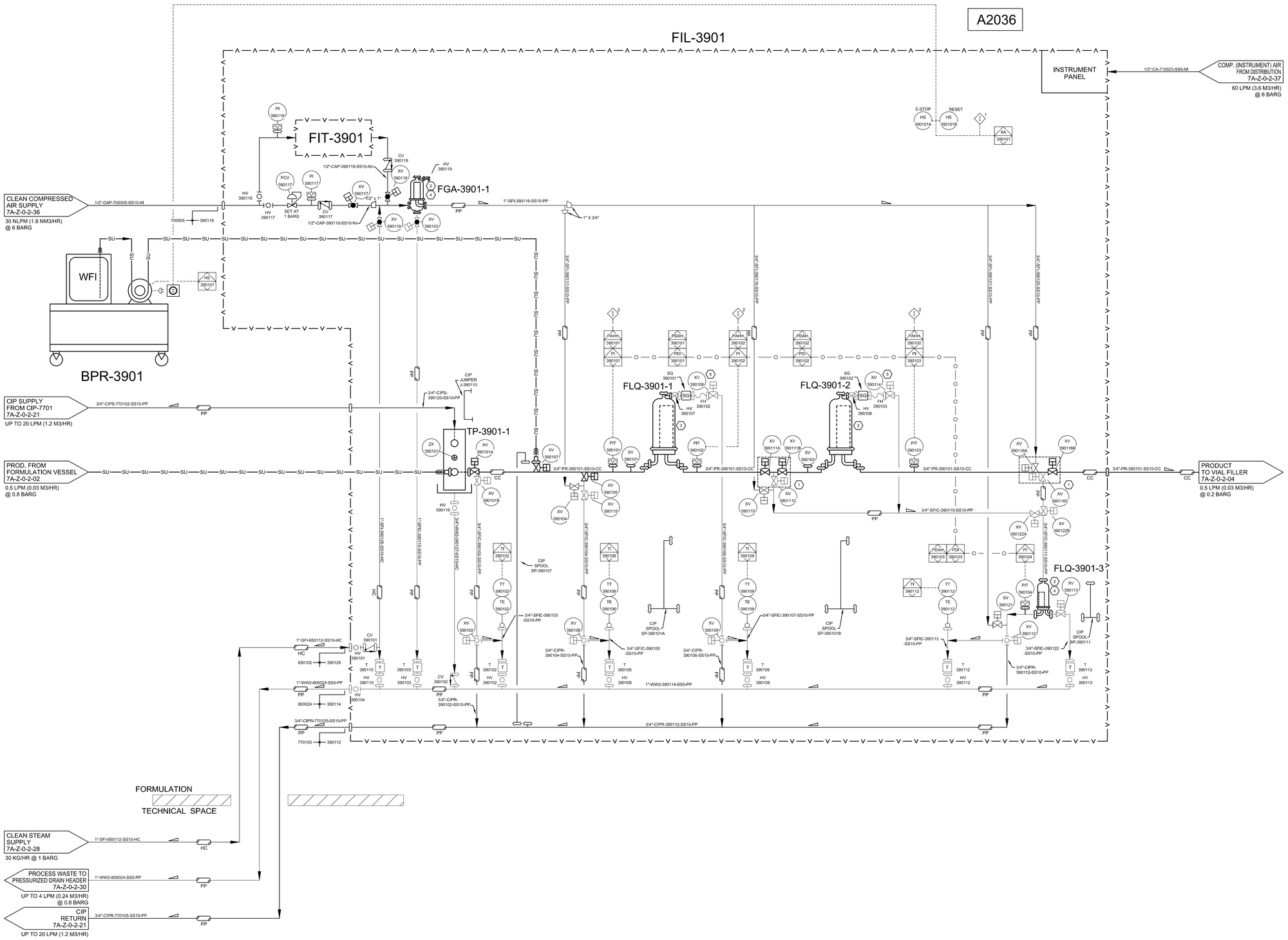

GENERAL NOTES:

1. ALL COMPONENT & EQUIPMENT NUMBER ARE PRECEDED BY "7A" TO REPRESENT THE FINAL DRUG PRODUCT (FDP) BUILDING.
2. ALL AUTOMATIC VALVES FAIL CLOSED (F.C.) UNLESS NOTED FAIL OPEN (F.O.).
3. ALL PLC/COMPUTER CONNECTIONS ARE WITHIN THE PCS UNLESS OTHERWISE NOTED.
4. LAST LINE NUMBER: 390127
5. LINE NUMBER NOT USED: NONE
6. LAST AUTO VALVE NUMBER: XV-390123
7. AUTO VALVE NUMBERS NOT USED: NONE
8. LAST MANUAL VALVE NUMBER: HV-390119
9. MANUAL VALVE NUMBERS NOT USED: HV-390105, 11, 14, 15, 16

SHEET NOTES

1. MACHINED BLOCK VALVE ASSEMBLY.
2. FILTER HOUSING WILL BE CLEANED OUT OF PLACE.
3. FILTER AND FILTER HOUSING WILL BE CLEANED OUT OF PLACE.
4. FILTER INTEGRITY TESTING PERFORMED OUT OF PLACE.
5. VALVE OPENED VIA OPERATOR PROMPT PRIOR TO REMOVAL OF FILTER HOUSING.

INTERLOCKS

1. SAFETY INTERLOCK - E-STOP ACTIVATION REMOVES AIR TO ALL ACTUATED VALVES AND DE-ENERGIZES ALL MOTORS (HARDWIRED).
2. SAFETY INTERLOCK - IN EVENT OF HIGH PRESSURE REMOVE AIR TO ALL VALVES AND DE-ENERGIZES ALL MOTORS (CONTROL).

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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	09JUL2021	90% DD ISSUE	RLD
G	10AUG2021	CONSTRUCTION ISSUE	RLD

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

REVISION HISTORY

1. REV. 0 - ADDED TAG NUMBERS TO SPOOL PIECES, JUMPERS AND SIGHT GLASSES.
2. REV. 0 - ADDED SYMBOL FOR STEAM-TO CONNECTOR ON SINGLE-USE TUBING.

FIL-3901
FILTER SKID
TYPE: HYGIENIC PIPING SKID
FLOW: 0.5 LPM PROD.
SIZE: 700mm X 1400mm X 1200mm
MOC: 316SS FRAME
POWER: N/A

FLQ-3901-1
STERILE FILTER FILTER
TYPE, HOUS/ELEM: TEE PORT, LIQ / 0.2 µm
CAPACITY: 0.5LPM (0.03 M3/HR)
SIZE: 1 RD X 10"H
MOC: 316L HOUSING/PVDF ELEM.
DP/DT: ≤ 0.8 BAR

FLQ-3901-2
STERILE FILTER FILTER
TYPE, HOUS/ELEM: TEE PORT, LIQ / 0.2 µm
CAPACITY: 0.5LPM (0.03 M3/HR)
SIZE: 1 RD X 10"H
MOC: 316L HOUSING/PVDF ELEM.
DP/DT: ≤ 0.8 BAR

FLQ-3901-3
STERILE BOUNDARY GUARD FILTER
TYPE, HOUS/ELEM: TEE PORT, LIQ / GAS / 0.2 µm
CAPACITY: 0.5LPM (0.03 M3/HR)
SIZE: 1 RD X 10"H
MOC: 316L HOUSING/PVDF ELEM.
DP/DT: ≤ 0.34 BAR

TP-3901-1
TRANSFER PANEL
TYPE: HYGIENIC, 3PORT
DUTY: CHROME SKID FEED
SIZE: TBD
MOC: 316LSS
ASSEC: 1 U-BEND, 2 PROX. SWITCHES

FGA-3901-1
BLOWDOWN FILTER
TYPE, HOUS/ELEM: TEE PORT, GAS / 0.2 µm
CAPACITY: 16.8 M3/HR / 280LPM
SIZE: 1 RD X 5"H
MOC: 316L HOUSING/PTFE ELEMENT
DP/DT: ≤ 0.14 BAR

BPR-3901
FILTER WETTING PUMP
TYPE: PERISTALTIC
CAPACITY: UP TO 4 LPM
MANUF/MODEL: WATSON-MARLOW / 530
MOC PUMP/TUBING: 316 SS ROLLERS / SILICONE
PWER: 135 VA, 1/60/220 VAC, NEMA 4X CASING

FIT-3901
FILTER INTEGRITY TESTER
TYPE: AUTOMATIC BUBBLE POINT/FORWARD FLOW
MANUF/MODEL: PALL / PALLTRONIC FLOWSTAR IV
MOC PUMP/TUBING: SS
PWER: 0.3 KW, 1/60/380 AC

Robert L. De Simini Jr.
ISSUED FOR CONSTRUCTION

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DATE:

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Empresa brasileira de hemoderivados e biotecnologia
BURITI EPCMV

DRAWING TITLE
P&I DIAGRAM DRUG PRODUCT STERILE FILTRATION, FIL-3901

ENGINEER	ARCHITECT	DESIGNER	IPS PROJECT #
JJR	BJE	RBN	ITD19439.01
DRAWN BY	REVIEWED BY	SCALE	CADD FILE NAME
RBN	GJC	NONE	7A-Z-0-2-03

XREF FILE(S)
DRAWING NUMBER
7A-Z-0-2-03

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