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- SHEET NOTES

- 1 VENDOR IS ENCOURAGED TO SUPPLY THEIR STANDARD CIP SYSTEM DESIGN AS LONG AS IT MEETS THE INTENT OF THE DESIGN SPEC. REFER TO THE EQUIPMENT SPECIFICATION AND DATA SHEETS FOR MATERIALS OF CONSTRUCTION AND ADDITIONAL INFORMATION.
- 2 VENDOR SHALL SUPPLY SECONDARY CONTAINMENT FOR CLEANING CHEMICAL DRY TANK.
- 3 APPROXIMATE FEED RATE = 80 LPM.
- 4 VENDOR SHALL SUPPLY MKS SERIES 48 NEMA 4X FILTER HOUSING HEATER WITH TEMPERATURE CONTROLLER ACCESSIBLE FROM GRADE LEVEL.
- 5 TO 150 MM ABOVE FINISHED FLOOR AND SAFE LOCATION.
- 6 OPEN/CLOSE CPW AND HWFI FEED VALVES XV-63020 AND XV-640105 BY THE TANK LEVEL CONTROL.

-  INTERLOCKS

- 1 INTERLOCK TO XV-770306, 07 PREVENTING OPENING BOTH VALVES AT THE SAME TIME.

CIP-7703  
CENTRAL CIP SYSTEM

TYPE: SINGLE TK, RECIRC.  
CAPACITY: 1200 L  
POWER:  
MOC: 316L STAINLESS STEEL

TQ-7703  
RINSE / WASH TANK

TYPE: INSULATED, ASME PRESS. RATED  
CAPACITY: 1200L WORKING  
SIZE: TBD  
MOC: 316LSS  
RATING: VES/JKT: 4 BARG & F.V. / N/A

FGA-7703-1  
VENT FILTER

TYPE, HOUS/ELEM: T-STYLE, GAS / O  
CAPACITY: UP TO 100 LPM (6 M3/HR)  
SIZE: 1 RD X 10"H  
MOC: 316L HOUSING/PTFE ELEMENT  
DP/DT:  $\leq 0.14$  BAR  
ELEC: 220V / 60HZ / 1PH, 2.4A

FGA-7703-2  
AIR BLOW FILTER

TYPE, HOUS/ELEM: INLINE, GAS / 0.2  $\mu$ m  
CAPACITY: 280 LPM (16.8 M3/HR)  
SIZE: 1 RD X 10"H  
MOC: 316L HOUSING/PTFE ELEMENT  
DP/DT:  $\leq$  0.14 BAR

~~TQ-7703-3~~  
~~CHEMICAL DAY TANK~~

TYPE: ATMOSPHERIC  
CAPACITY: 5L  
SIZE: TBD  
MOC: POLYETHYLENE  
DR/DT: N/A / AMBIENT

BC-7703-1  
CIP SUPPLY PUMP

TYPE: HYGIENIC CENTRIFUGAL  
CAPACITY: 200 LPM @ 3.5 BARG  
MANUF/MODEL: FRISTAM / TBD  
MOC: 316/316LSS  
POWER: 5.6 KW, 3/60/380 VAC MOTOR

BC-7703-2  
CIP RETURN PUMP

TYPE: HYGIENIC LIQUID RING  
CAPACITY: 200 LPM @ 2 BARG  
MANUF/MODEL: FRISTAM / FZX  
MOC: 316/316LSS  
POWER: 5.6 KW, 3/60/380 VAC MOTOR

BM-7703-3  
CHEMICAL DOSING PUMP

TYPE: METERING  
CAPACITY/SIZE: UP TO 8 LPM / 1/2"  
MANUF/MODEL: LMI / TBD  
MOC: POLYPROPYLENE / PTFE  
POWER: N/A

TC-7703  
CIP SOL'N HEATER

TYPE: HYGENIC SHELL AND TUBE  
CAPACITY: 140 KW (HEAT 100 LPM @ 40°C ΔT)  
DESIGN BASIS: HEAT, 1200L WASH SOL'N, TO 60°C IN 25-30 MIN  
MOC, SHELL/TUBES: STAINLESS STEEL / 316L SS  
DP/DT: 10 BARG & F.V. / 350°C  
AREA: TBD SQ. FT.

CC-7703  
QUENCH COOLER

TYPE: AUTOMATED COOLER  
CAPACITY: COOL 85 LPM @ 85 °C TO 43 °C  
SIZE: TBD  
MOC: STAINLESS STEEL  
MODEL: TBD

95A1

THIS IS NOT A  
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ISSUED FOR  
CONSTRUCTION

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**CLIENT**



**Hemobrás**  
Companhia Brasileira de Hemoderivados e Biotecnologia

## BURITI EPCMV

DRAWING TITLE

**P&I DIAGRAM  
DRUG SUBSTANCE  
CIP SYSTEM N°3, CIP-7703  
BUFFER AREA**

|                 |                    |                 |                               |
|-----------------|--------------------|-----------------|-------------------------------|
| ENGINEER<br>JJR | ARCHITECT<br>BJE   | DESIGNER<br>JJR | IPS PROJECT #<br>ITD19439.01  |
| DRAWN BY<br>LG  | REVIEWED BY<br>GJC | SCALE<br>NONE   | CADD FILE NAME<br>7B-Z-0-2-49 |

|              |  |                |  |
|--------------|--|----------------|--|
| XREF FILE(S) |  | DRAWING NUMBER |  |
|--------------|--|----------------|--|

7B-Z-0-2-49

VERSION