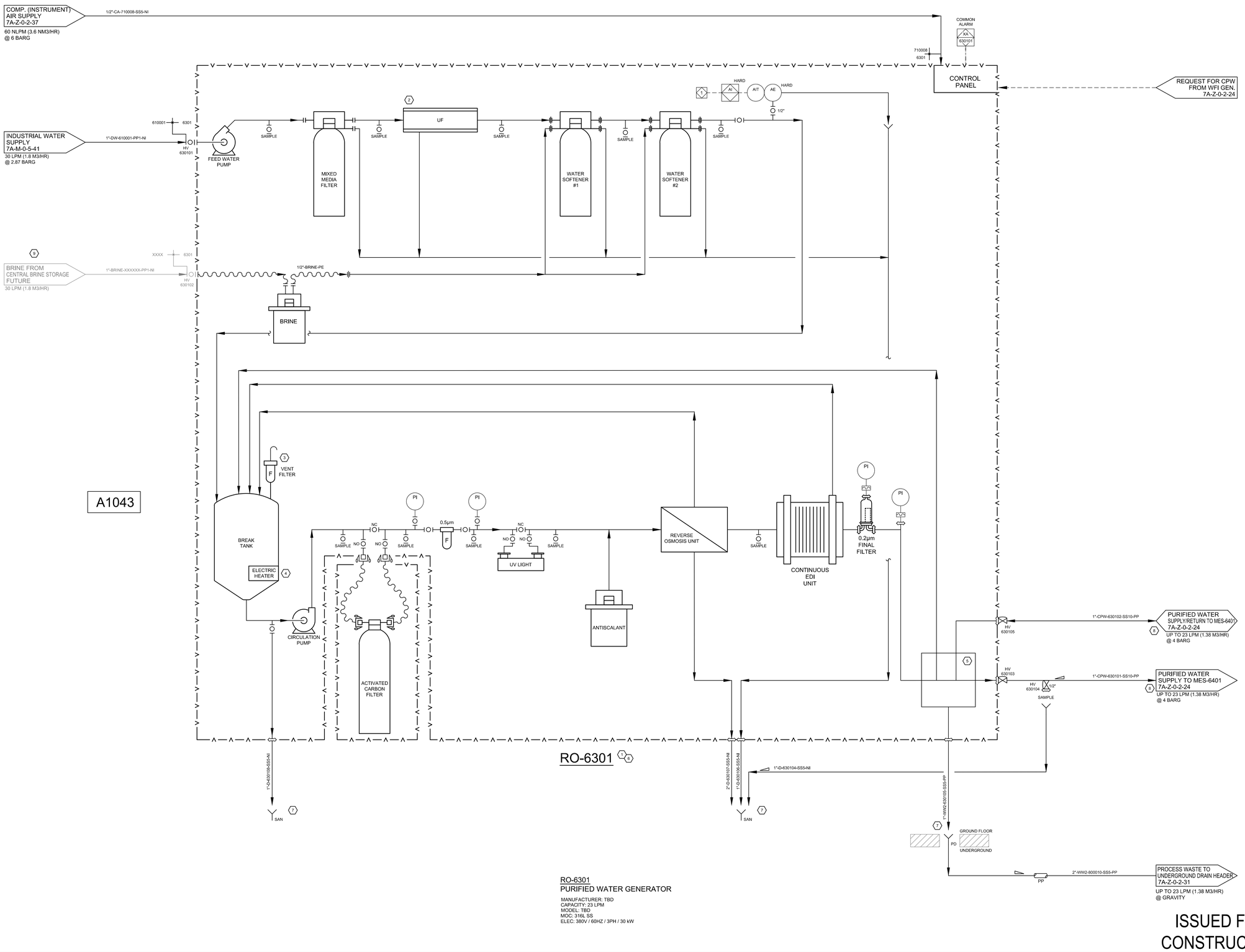

RO-6301
PURIFIED WATER GENERATOR

MANUFACTURER: TBD
CAPACITY: 23 LPM
MODEL: TBD
MOC: 316L SS
ELEC: 380V / 60HZ / 3PH / 30 kW

GENERAL NOTES:

1 ALL COMPONENT & EQUIPMENT NUMBERS 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:
630108
5 LINE NUMBER NOT USED:
NONE
6 LAST AUTO VALVE NUMBER:
XV-630101
7 AUTO VALVE NUMBERS NOT USED:
NONE
8 LAST MANUAL VALVE NUMBER:
HV-630105
9 MANUAL VALVE NUMBERS NOT USED:
NONE

SHEET NOTES

1 THIS DIAGRAM IS BASED ON A PRELIMINARY DESIGN AND IS NOT INTENDED AS A FINAL DESIGN. FOR MORE INFORMATION ABOUT ACTUAL DESIGN INFORMATION REFER TO VENDOR DOCUMENTATION.
2 ULTRAFILTER UNIT TO BE PROVIDED WITH VALVING FOR AUTOMATED BACKWASH.
3 'VENT TO SAFE LOCATION 150 MM ABOVE FINISHED FLOOR.
4 PURIFIED WATER SKID IS PERIODICALLY HEAT SANITIZED USING AN ELECTRIC HEATER.
5 VALVE ASSEMBLY HAS TWO MODES:

"ACTIVE" DUTY CONVERTS BOTH THE SUPPLY AND RETURN LINES INTO SUPPLY LINES DURING FILLING

"STAND-BY" DUTY SLOWS THE FLOW AND THE SUPPLY AND RETURN ACT AS A NORMAL LOOP RETURNING TO BREAK TANK.

6 LOCATE VALVES AND REGULATORS AT OPERATOR LEVEL FOR ERGONOMIC ACCESS (TYPICALLY 1220 MM TO 1525 MM ABOVE FINISHED FLOOR).
7 PROVIDE A 50 MM MINIMUM AIR GAP FOR FLOOR DRAINS.
8 THE DESIGN IS BASED ON A SYSTEM WHICH, DURING "ACTIVE" DUTY SENDS PURIFIED WATER THROUGH TWO STREAMS SIMULTANEOUSLY. TOTAL MAKEUP CAPACITY (23 LPM) IS A TOTAL OF THE TWO STREAMS.
9 BRINE FROM CENTRAL BRINE STORAGE FUTURE IS PART OF ONGOING SITE WORK, AS IT IS NOT EXISTING AND HAS NOT BEEN EVALUATED FOR ADDITIONAL CAPACITY OF THIS RO SYSTEM. IT HAS BEEN UPDATED TO A FUTURE CONNECTION WITH THE SKID HAVING BOTH MANUAL BRINE PREPARATION AND AUTOMATIC FEED TO DAY TANK. CURRENTLY THIS IS OUT OF IPS PROCESS SCOPE

ISSUED FOR CONSTRUCTION

SEAL
THIS IS NOT A SEALED DOCUMENT
DATE:

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REVISION	DATE	DESCRIPTION	BY
A	01JUL2020	50% BD ISSUE	DLS
B	27AUG2020	90% BD ISSUE	JJR
C	27NOV2020	DESIGN ISSUE	JJR
D	12FEB2021	30% DD ISSUE	RLD
E	05AUG2021	90% DD ISSUE	RLD
G	02SEP2021	CONSTRUCTION ISSUE	RLD

TESSLER engenharia
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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 PRODUCT
PURIFIED WATER (RO/EDI)
SYSTEM, RO-6301

ENGINEER	ARCHITECT	DESIGNER	IPS PROJECT #
JJR	BJE	RBN	ITD19439.01
DRAWN BY	REVIEWED BY	SCALE	CADD FILE NAME
LG	GJC	NONE	7A-Z-0-2-23

XREF FILE(S)

DRAWING NUMBER
7A-Z-0-2-23

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