

2-TANK CIP SKID
 CIP-33-101 (RH)
 MECHANICAL BOM

ITEM #	TAG #	MANUFACTURER	MANUFACTURER PART #	SERIAL # / LOT #	SMI PART #	DESCRIPTION	MATERIAL	ACTUATION	RANGE	ELEC. SPEC.	CONN. TYPE	SIZE	LOCATION
1	AE-CIP33101-013A	Endress+Hauser	CLS82D-2T99/0 (CLS82D-C2CBA+F5JAKBLWZ1) CYK10-S101	P600B005LC0	052897 052901	Sensor, conductivity, conductive, 4-electrode, 15 Ra + EP finish. (Material, Surface Finish, Pharma Compliance, Calibration Certs Req'd) Cable, Memosens plug x wire terminals, 10m long. (Sani-Matic Ass'y# 279906)	316L SS	N/A	10 – 200 mS/cm	N/A	TC	2.0"	CIP Return
2	AE-CIP33101-013B	Endress+Hauser	CLS16D-4E1SOZ1 CYK10-S101	P7054A05LC0	052898 052901	Sensor, conductivity, conductive, 2-electrode, 15 Ra + EP finish. (Material, Surface Finish, Bio Reactivity Test, Calibration Certs Req'd) Cable, Memosens plug x wire terminals, 10m long. (Sani-Matic Ass'y# 279907)	316L SS	N/A	0.04 – 10 µS/cm	N/A	TC	2.0"	CIP Return
3	AE-CIP33101-213	Endress+Hauser	CLS82D-2T99/0 (CLS82D-C2CBA+F5JAKBLWZ1) CYK10-S101	P600C405LC0	052897 052901	Sensor, conductivity, conductive, 4-electrode, 15 Ra + EP finish. (Material, Surface Finish, Pharma Compliance, Calibration Certs Req'd) Cable, Memosens plug x wire terminals, 10m long. (Sani-Matic Ass'y# 279906)	316L SS	N/A	10 – 200 mS/cm	N/A	TC	2.0"	CIP Recirc.
4	AIT-CIP33101-013A	Endress+Hauser	CM42-KAC501EAE00+1, 51518173 (Panel Kit)	P50B7505G00	052899 036365	Conductivity analyzer, conductive measurement, plastic housing with display, 0.5" FNPT cable entry, PROFIBUS PA output. Panel mounting kit 138mm x 138mm. (Inspection Cert Req'd)	N/A	N/A	10 – 200 mS/cm	24 VDC	TC	2.0"	CIP Return
5	AIT-CIP33101-013B	Endress+Hauser	CM42-KAC501EAE00+1, 51518173 (Panel Kit)	P50B8905G00	052900 036365	Conductivity analyzer, conductive measurement, plastic housing with display, 0.5" FNPT cable entry, PROFIBUS PA output. Panel mounting kit 138mm x 138mm. (Inspection Cert Req'd)	N/A	N/A	0.04 – 10 µS/cm	24 VDC	TC	2.0"	CIP Return



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6	AIT-CIP33101-213	Endress+Hauser	CM42-KAC501EAE00+1, 51518173 (Panel Kit)	P50B6105G00	052899 036365	Conductivity analyzer, conductive measurement, plastic housing with display, 0.5" FNPT cable entry, PROFIBUS PA output. Panel mounting kit 138mm x 138mm. (Inspection Cert Req'd)	N/A	N/A	10 – 200 mS/cm	24 VDC	TC	2.0"	CIP Recirc.
7	AV-334-0010	Spirax Sarco	0.5 - AV13 (1232690)	N/A	052858	Air vent, thermostatic, balanced pressure, SS internals, fluorocarbon rubber o-ring, 13 barg maximum operating pressure @ 220 °C.	Brass	N/A	N/A	N/A	FNPT	0.5"	Condensate Vent
8	CIPR-334-9285 Prox Tags: ZSO-CIP33101-014	Gemü Turck	653 50D59405E04XA SF4, 1200M08Z100500M12B J078 (P+F p/n: NMB1,5-8GM50-E2-FE-V1) RKV4.5T-10	7694-19 88624873	052780 (1) 053300	Diaphragm valve, two-way forged body, 15 Ra EP internal finish, as-cast external finish, USP Class VI peroxide-cured EPDM backed USP Class VI PTFE diaphragm, handwheel actuator, (1) standard I/O proximity sensor. (Material, Surface Finish, and Diaphragm Certs Req'd) (1) Cable, M12 Eurofast, 5-Pin, Female, 10m (Sani-Matic Ass'y# 285010)	316L SS	Manual	N/A	24 VDC	BW	2.0"	CIP Return Sample Block
9	EH-CIP33101-001	Advance Thermal	ASSEMBLY FILTER / 3' SRM-15-1-CT / TD101X-200 053196	039206-001	053196	Heat tracing, self-regulating, 3' long tracing with (3) 20' lead wires, removable 185 °F On / 200 °F off thermostat, with removable 1.5" thick Teflon-impregnated fiberglass cloth insulation blanket.	N/A	N/A	N/A	110 VAC	N/A	N/A	Final Rinse Tank Vent Filter
10	EH-CIP33101-002	Advance Thermal	ASSEMBLY VENT / 4' SRM-15-1-CT / TD101N-200 053197	039206-001	053197	Heat tracing, self-regulating, 4' long tracing with (3) 20' lead wires, removable 185 °F On / 200 °F off thermostat, with removable 1.5" thick Teflon-impregnated fiberglass cloth insulation blanket.	N/A	N/A	N/A	110 VAC	N/A	N/A	Rinse / Wash Recirc. Tank Vent Filter
11	F-CIP33101-001	Allegheny Bradford	UST01-QT44133-2	047670-2-1-1	052251	Filter housing, T-style, 1 cartridge x 10" high, recessed socket for type 226 code 7 cartridge, rated for 150 psig / FV @ -20/350 °F, 20 Ra EP ID / 35 Ra OD, 1.0" vent port, NO vent valve, NO drain valve, USP Class VI peroxide-cured EPDM gasket. (MTR's, Weld Documentation, Surface Finish Cert, Elastomer Certificate of Conformance, Hydrostatic Pressure Test Cert, Passivation Cert Req'd)	316L SS	N/A	N/A	N/A	TC	1.5"	Final Rinse Tank Vent Filter



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12	F-CIP33101-001A	Millipore	CTGR71TP1	C9DA03273R	021393	Filter element, type 226, code 7 cartridge, hydrophobic PTFE, silicone seal, polypropylene supports & structure, SS outer support ring, 10" long, 0.2 micron.	PTFE	N/A	N/A	N/A	N/A	N/A	Final Rinse Tank Vent Filter
13	F-CIP33101-002	Allegheny Bradford	UST01-QT44133-2	047670-2-1-2	052251	Filter housing, T-style, 1 cartridge x 10" high, recessed socket for type 226 code 7 cartridge, rated for 150 psig / FV @ -20/350 °F, 20 Ra EP ID / 35 Ra OD, 1.0" vent port, NO vent valve, NO drain valve, USP Class VI peroxide-cured EPDM gasket. (MTR's, Weld Documentation, Surface Finish Cert, Elastomer Certificate of Conformance, Hydrostatic Pressure Test Cert, Passivation Cert Req'd)	316L SS	N/A	N/A	N/A	TC	1.5"	Rinse / Wash Recirc. Tank Vent Filter
14	F-CIP33101-002A	Millipore	CTGR71TP1	C9DA03273R	021393	Filter element, type 226, code 7 cartridge, hydrophobic PTFE, silicone seal, polypropylene supports & structure, SS outer support ring, 10" long, 0.2 micron.	PTFE	N/A	N/A	N/A	N/A	N/A	Rinse / Wash Recirc. Tank Vent Filter
15	F-CIP33101-003	Donaldson	PG-EG 0032	47185	053050	Filter housing, T-style, for 1 x 05/30 element, rated for 232 psig @ 392 °F, 32 Ra EP ID/OD, 316 SS 0.25" BSP vent plug, 316 SS 0.25" BSP drain valve, EPDM gasket. (Material and Surface Finish CoC Req'd)	316L SS	N/A	N/A	N/A	TC	1.5"	Rinse / Wash Recirc. Tank Deodorizing Filter
16	F-CIP33101-003A	Donaldson	P-AK 05/30	W16637331/001	053051	Filter element, activated carbon, inlet flow diffuser, PUR ester foam carbon substrate, borosilicate microfiber / polyamide fleece depth filter, polyurethane bonding, Perbunan o-rings.	304 SS	N/A	N/A	N/A	N/A	N/A	Rinse / Wash Recirc. Tank Deodorizing Filter
17	FO-CIP33101-117	Sani-Matic	288324	283562	288324	Flow orifice, hygienic, horizontal mount, 20 Ra EP, 37/64" eccentric hole. (MTR's, Surface Finish Certs Req'd)	316L SS	N/A	43 gpm @ 39 psid	N/A	TC	2.0"	Final Rinse Tank HWFI / CWF1 Supply to Spray
18	FO-CIP33101-216	Sani-Matic	288325	283952	288325	Flow orifice, hygienic, vertical mount, 20 Ra EP, 33/64" concentric hole. (MTR's, Surface Finish Certs Req'd)	316L SS	N/A	43 gpm @ 59 psid	N/A	TC	2.0"	Rinse / Wash Recirc. Tank NaOH Supply



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19	FO-CIP33101-217	Sani-Matic	288324	283562	288324	Flow orifice, hygienic, horizontal mount, 20 Ra EP, 37/64" eccentric hole. (MTR's, Surface Finish Certs Req'd)	316L SS	N/A	43 gpm @ 39 psid	N/A	TC	2.0"	Rinse / Wash Recirc. Tank HWFI / CWFI Supply to Spray
20	FO-CIP33101-296	Sani-Matic	288326	283954	288326	Flow orifice, hygienic, horizontal mount, 20 Ra EP, 21/64" eccentric hole. (MTR's, Surface Finish Certs Req'd)	316L SS	N/A	5 gpm @ 5 psid	N/A	TC	0.75"	Heat Exchanger Piping Low Point Drain
21	FQIT-CIP33101-004	Endress+Hauser	8P3B40-2FT9/0 (8P3B40-CSIRAAAFADBCFHWA A1+AAJAJELWZ1)	P6082816000	052902	Flow meter, coriolis, 15 Ra + EP ID, integral transmitter, PROFINET 2-port switch integrated output, 0.5" FNPT cable entry, compact IP67 / NEMA4X coated aluminum transmitter housing, 4-line illuminated display with touch control. (Material, Surface Finish, ASME BPE, Calibration Certs Req'd)	316L SS	N/A	0 – 100 GPM	24VDC	TC	1.5"	CIP Supply
22	FQIT-CIP33101-272	Endress+Hauser	5H3B15-6HW0/0 (5H3B15-CSIRAAAFBDF9990AA1 +AAJAK9Z1)	P5036F16000	052903	Flow meter, electromagnetic, 16 Ra + EP ID, integral transmitter, PROFINET 2-port switch integrated output, 0.5" FNPT cable entry, compact IP67 / NEMA4X SS hygienic transmitter housing, 4-line illuminated display with touch control, "999" = 0.75" process connection. (Material, Surface Finish, Calibration Certs Req'd)	316L SS	N/A	0 – 6 GPM	24VDC	TC	0.75"	Acid Supply to CIP Recirc Pump
23	FSL-CIP33101-017	Endress+Hauser Turck	DTT35-A1C111YY2BCB+A RKV4.5T-10/S618	P504180435D	052904 053866	Flow switch, thermal dispersion, 50mm probe, stainless steel housing, digital display, M12 electrical connection, 16 Ra + EP surface finish, 4-20mA, PNP output, "YY" = 2" process connection. (Material, Surface Finish Certs Req'd) Cable, M12 Eurofast, 5-Pin, Female, 10m, shielded (Sani-Matic Ass'y# 288738)	316L SS	N/A	4-20mA = 0.1 – 9.8 ft/s	24 VDC	TC	2.0"	CIP Return



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24	HE-CIP33101-001	Allegheny Bradford	HE-U21D-06.6-045-3/8-053-9,2UM HE771500	047670-1-1	052250	Heat exchanger, shell and tube, BEU, vertical design, 15 Ra EP ID, glass bead blast OD, double tubesheet, removable tube bundle w/ USP Class VI peroxide-cured EPDM o-ring gaskets on tubeside and shellside, 2" Nutec Fibratec insulation w/ 304L SS sheathing, (2) lifting lugs, ASME UM code & NBR stamped for 150/FV psig @ -20°/350°F. Duty: Heat 2,000 liters of CIP solution flowing at 40,032pph (80gpm) from 53.6°F (12°C) to 140°F (60°C) in approx. 7 minutes (1-loop) using 3,814pph of steam at 60psig (307.55°F). (ASME Documentation, MTR's, Elastomer Certificate of Conformance, Weld Documentation, Surface Finish Cert, Hydrostatic Test Report Req'd)	316L SS (Wetted) 304/304L SS (Non-Wetted)	N/A	N/A	N/A	TC 150# FLG FNPT	2.0", 2.0" 4.0", 1.5" 0.75", 0.75"	CIP Supply Steam, Cond. Vent, Drain
25	IA-334-9275	Swagelok	SS-63TS12-JL	N/A	052293	Ball valve, 3-piece, 316 SS trim, RPTFE seats/seals/packing, 1/4 turn lever, locking handle.	316L SS	Manual	N/A	N/A	Comp.	0.75"	Comp. Air Supply
26	LSHH-CIP33101-104	Endress+Hauser	FTL51H-UTE2CDAE4B+1, 12" long	P6000401029	052905	Level switch, vibronic, 15 Ra + EP, 12" long probe, PROFIBUS PA output, NEMA 4X polyester housing, 0.5" FNPT cable entry, "CD" = 12" probe length. (Material, ASME BPE Certs Req'd)	316L SS	N/A	N/A	24 VDC	TC	2.0" x 12" long	Final Rinse Tank
27	LSHH-CIP33101-204	Endress+Hauser	FTL51H-UTE2CDAE4B+1, 12" long	P600ED1029	052905	Level switch, vibronic, 15 Ra + EP, 12" long probe, PROFIBUS PA output, NEMA 4X polyester housing, 0.5" FNPT cable entry, "CD" = 12" probe length. (Material, ASME BPE Certs Req'd)	316L SS	N/A	N/A	24 VDC	TC	2.0" x 12" long	Rinse / Wash Recirc. Tank
28	LSL-CIP33101-107	Endress+Hauser	FTL51H-UEE2DDAE4B+1	P6001801029	052906	Level switch, vibronic, 15 Ra + EP compact probe, PROFIBUS PA output, NEMA 4X polyester housing, 0.5" FNPT cable entry, "DD" = Type II probe length. (Material, ASME BPE Certs Req'd)	316L SS	N/A	N/A	24 VDC	Flush Mount	N/A (Flush Mount)	Final Rinse Tank
29	LSL-CIP33101-207	Endress+Hauser	FTL51H-UEE2DDAE4B+1	P600B401029	052906	Level switch, vibronic, 15 Ra + EP compact probe, PROFIBUS PA output, NEMA 4X polyester housing, 0.5" FNPT cable entry, "DD" = Type II probe length. (Material, ASME BPE Certs Req'd)	316L SS	N/A	N/A	24 VDC	Flush Mount	N/A (Flush Mount)	Rinse / Wash Recirc. Tank



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30	LSL- PMICIP3310 1001-003	Endress+Hauser	FTL51H- UTE2DDAE4B+1, 2.62" long	P6000E01029	052907	Level switch, vibronic, 15 Ra + EP, L= type II, 2.62" long probe, PROFIBUS PA output, NEMA 4X polyester housing, 0.5" FNPT cable entry. (Material, ASME BPE Certs Req'd)	316L SS	N/A	N/A	24 VDC	TC	2.0" x 2.62" long	CIP Recirc Pump Suction
31	LSL- PMICIP3310 1002-003	Endress+Hauser	FTL51H- UTE2DDAE4B+1, 2.62" long	P600AA01029	052907	Level switch, vibronic, 15 Ra + EP, L= type II, 2.62" long probe, PROFIBUS PA output, NEMA 4X polyester housing, 0.5" FNPT cable entry. (Material, ASME BPE Certs Req'd)	316L SS	N/A	N/A	24 VDC	TC	2.0" x 2.62" long	CIP Supply Pump Suction
32	N/A	Swagelok	SS-4P4V	N/A	053139 Qty (32) req'd	Valve, plug, 4P series, 1/4 turn, reinforced PTFE packing and seat, 316 ss body, FKM o-rings, Cv=1.6, downstream vent.	316 SS	Manual	N/A	N/A	Swagelok Tube Fitting	0.25"	Pneumatic Actuators Isolation
33	PC-334- 9280	Velan	W04-8036W-02TS	N/A	039906	Valve, check, piston, forged body, 1690 pressure rating, inclined, welded bonnet, 316/316L SS piston, Stellite 6 seat.	Carbon Steel	N/A	N/A	N/A	SW	0.75"	Condensate
34	PC-334- 9281	Velan	W07-8036W-02TS	N/A	053047	Valve, check, piston, forged body, 1690 pressure rating, inclined, welded bonnet, 316/316L SS piston, Stellite 6 seat.	Carbon Steel	N/A	N/A	N/A	SW	1.5"	Condensate
35	PC-334- 9282	Velan	W07-2064B-02TY	N/A	053048	Valve, gate, full port, forged body, 800 API 602 pressure rating, bolted bonnet, 316 trim, handwheel.	Carbon Steel	Manual	N/A	N/A	SW	1.5"	Condensate
36	PC-334- 9283	Velan	W07-2064B-02TY	N/A	053048	Valve, gate, full port, forged body, 800 API 602 pressure rating, bolted bonnet, 316 trim, handwheel.	Carbon Steel	Manual	N/A	N/A	SW	1.5"	Condensate
37	PC-334- 9286	Velan	W07-2064B-02TY	N/A	053048	Valve, gate, full port, forged body, 800 API 602 pressure rating, bolted bonnet, 316 trim, handwheel.	Carbon Steel	Manual	N/A	N/A	SW	1.5"	Condensate
38	PCV- CIP33101- 031	Fisher	SR5-2EES5	R058356370	052860	Pressure regulator, air, sanitary, 20 Ra internal surface finish, ANSI CL III shutoff, metal seat, EPDM diaphragm, EPDM O-ring, 0.50" orifice, 35-135 psig spring range (Material, Surface Finish, Elastomer Certs Req'd)	316/316L SS	NA	Spring Range: 35 – 135 psig Set @ 90 psig	N/A	TC	0.75	Comp. Air Supply
39	PI- CIP33101- 031	Wika	52873450 **Alternate P/N: 232.50.115-PG411Z-NB- UZZZ-1ZZ 5B K13D31AZHZISZZ2	8100FV95	053141	Pressure gauge, 4.5" dial, bottom mount, 304 SS case, mechanical dampening, blowout plug, adjustable pointer, laminated safety glass window, dry case. (Calibration Certs Req'd)	316/316L SS	N/A	0 – 160 psig	N/A	MNPT	0.25"	Comp. Air Header



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40	PI-CIP33101-108	Ashcroft	35-1032S-20L-XC4-30#	E617338	053137	Pressure gauge, 3.5" dial, bottom mount, 304 SS case, standard dampening, re-zero calibration adjustment, polycarbonate window, 99.5% USP grade glycerin capillary fill, 20 Ra + EP max diaphragm and fitting. (Material, Surface Finish, Calibration Certs Req'd)	304SS / 316L SS	N/A	0 – 30 psig	N/A	TC	2.0"	Final Rinse Tank
41	PI-CIP33101-208	Ashcroft	35-1032S-20L-XC4-30#	E565782	053137	Pressure gauge, 3.5" dial, bottom mount, 304 SS case, standard dampening, re-zero calibration adjustment, polycarbonate window, 99.5% USP grade glycerin capillary fill, 20 Ra + EP max diaphragm and fitting. (Material, Surface Finish, Calibration Certs Req'd)	304SS / 316L SS	N/A	0 – 30 psig	N/A	TC	2.0"	Rinse / Wash Recirc. Tank
42	PI-CIP33101-292	Ashcroft	35-1032S-20L-XC4-30#	E565768	053137	Pressure gauge, 3.5" dial, bottom mount, 304 SS case, standard dampening, re-zero calibration adjustment, polycarbonate window, 99.5% USP grade glycerin capillary fill, 20 Ra + EP max diaphragm and fitting. (Material, Surface Finish, Calibration Certs Req'd)	304SS / 316L SS	N/A	0 – 30 psig	N/A	TC	2.0"	CIP Recirc
43	PI-CIP33101-294	Wika	52883521 **Alternate P/N: 232.50.115-PG369Z-ND-UZZZ-1ZZ 5B K13D31AZHZISZZ2	8100FWZQ	053142	Pressure gauge, 4.5" dial, bottom mount, 304 SS case, mechanical dampening, blowout plug, adjustable pointer, laminated safety glass window, dry case. (Calibration Certs Req'd)	316/316L SS	N/A	0 – 100 psig	N/A	MNPT	0.5"	Steam Supply
44	PIT-CIP33101-003	Endress+Hauser	PMP51-87955/0 (PMP51-CD31JD1PGFTDJA3+A AHKJAKBLWZ1)	P6082201129	052908	Pressure transmitter, PROFIBUS PA output, LCD display with push button control, aluminum housing, 0.5" FNPT IP66/68 / NEMA 4X/6P cable entry, FDA synthetic oil fill fluid, direct diaphragm seal connection, 15 Ra + EP wetted surface finish. (Material, Surface Finish, ASME BPE, Calibration Certs Req'd)	316L SS	N/A	0 – 125 psig	24 VDC	TC	2.0"	CIP Supply



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45	PIT-CIP33101-011	Endress+Hauser	PMP51-87955/0 (PMP51-CD31JD1PGFTDJA3+A AHKJAKBLWZ1)	P6080E01129	052908	Pressure transmitter, PROFIBUS PA output, LCD display with push button control, aluminum housing, 0.5" FNPT IP66/68 / NEMA 4X/6P cable entry, FDA synthetic oil fill fluid, direct diaphragm seal connection, 15 Ra + EP wetted surface finish. (Material, Surface Finish, ASME BPE, Calibration Certs Req'd)	316L SS	N/A	0 – 125 psig	24 VDC	TC	2.0"	CIP Return
46	PIT-CIP33101-032	Endress+Hauser	PMP51-87962/0 (PMP51-CD31JD1PGFR1JA1+AZ1)	P5009A15129	052909	Pressure transmitter, PROFIBUS PA output, LCD display with push button control, aluminum housing, 0.5" FNPT IP66/68 / NEMA 4X/6P cable entry, silicone oil fill fluid, direct diaphragm seal connection. (Calibration Cert Req'd)	316L SS	N/A	0 – 125 psig	24 VDC	FNPT	0.5"	Comp. Air Supply
47	PM-CIP33101-001	Fristam	FPR712 / 105mm (1414000005)	FPR7121901113 F1904036765	052678	Centrifugal pump, 105mm, single internal silicon carbide vs. carbon seal, 20 Ra EP ID finish, 1/2" elbow front facing casing drain, 45° left discharge, USP Class VI peroxide-cured EPDM elastomers, painted cast iron flange support, 3 HP, 3500 RPM, Baldor IEEE 841 TEFC severe/chemical duty (IP65) prem. eff. motor, 182TC frame size. (Certified Drawing, MTR's, Elastomer Certificate of Conformance, EP Cert, Surface Finish Map, Performance Test Curve, Vibration Test Report, Noise Test Report Req'd)	316L SS	N/A	80 gpm @ 46.2' TDH (20 psid)	460 VAC 3 Ph 60 Hz	TC	2.0" x 1.5"	CIP Recirc
48	PM-CIP33101-002	Fristam	FPR752 / 200mm (1482000005)	FPR7521901147 Z1903200147	052679	Centrifugal pump, 200mm, single internal silicon carbide vs. carbon seal, 20 Ra EP ID finish, 3/4" elbow front facing casing drain, 45° left discharge, USP Class VI peroxide-cured EPDM elastomers, painted cast iron flange support, 20 HP, 3500 RPM, Baldor IEEE 841 TEFC severe/chemical duty (IP65) prem. eff. motor, 256TC frame size. (Certified Drawing, MTR's, Elastomer Certificate of Conformance, EP Cert, Surface Finish Map, Performance Test Curve, Vibration Test Report, Noise Test Report Req'd)	316L SS	N/A	48 gpm @ 254' TDH (110 psid)	460 VAC 3 Ph 60 Hz	TC	3.0" x 2.0"	CIP Supply
49	PSV-CIP33101-297	Kunkle	918BDCE06BJE0125	N/A	024633	Pressure relief valve, "D" orifice (0.1213 in ²), EPR seat and seal, packed lift lever, Fire sized for ASME Section VIII liquid service, approx. capacity = 38 gpm.	Bronze Brass SS Trim	N/A	Set @ 125 psig	N/A	MNPT x FNPT	0.5" x 0.75"	Steam Supply



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ITEM #	TAG #	MANUFACTURER	MANUFACTURER PART #	SERIAL # / LOT #	SMI PART #	DESCRIPTION	MATERIAL	ACTUATION	RANGE	ELEC. SPEC.	CONN. TYPE	SIZE	LOCATION
50	PSV-CIP33101-106	Leser	4834.7714-45PSIG-175I81176A81B55J22J38 H03N04H01-3.2-S07	11563328	052809	Pressure relief valve, clean service, sanitary, 15-Ra + EP max finish, USP Class VI Peroxide-Cured EPDM seal (J22), packed knob, orifice E, 0.761 in ² orifice. (Material, Surface Finish, Elastomer Certs Req'd)	316L SS	N/A	Set @ 45 psig	N/A	TC	2.0" x 2.0"	Final Rinse Tank
	ZSC-CIP33101-106	Pepperl+Fuchs	NCB2-12GM40-Z1-V1 (089255)		053311	Proximity switch, inductive, M12 x 1 barrel diameter, 1.2mm rated sensing range, N.C. switching function, Nema 4x, IP66 / IP67 enclosure, -25°C - 100°C operating temp.	N/A	N/A	N/A	24 VDC	N/A	N/A	
		Turck	RKV4.5T-10		053300	Cable, M12 Eurofast, 5-Pin, Female, 10m (Sani-Matic Ass'y# 283539)							
51	PSV-CIP33101-206	Leser	4834.7714-45PSIG-175I81176A81B55J22J38 H03N04H01-3.2-S07	11563329	052809	Pressure relief valve, clean service, sanitary, 15-Ra + EP max finish, USP Class VI Peroxide-Cured EPDM seal (J22), packed knob, orifice E, 0.761 in ² orifice. (Material, Surface Finish, Elastomer Certs Req'd)	316L SS	N/A	Set @ 45 psig	N/A	TC	2.0" x 2.0"	Rinse / Wash Recirc. Tank
	ZSC-CIP33101-206	Pepperl+Fuchs	NCB2-12GM40-Z1-V1 (089255)		053311	Proximity switch, inductive, M12 x 1 barrel diameter, 1.2mm rated sensing range, N.C. switching function, Nema 4x, IP66 / IP67 enclosure, -25°C - 100°C operating temp.	N/A	N/A	N/A	24 VDC	N/A	N/A	
		Turck	RKV4.5T-10		053300	Cable, M12 Eurofast, 5-Pin, Female, 10m (Sani-Matic Ass'y# 283539)							
52	PT-334-0001	Spirax Sarco	APT14HC (6120461)	D19	031449	Steam trap, automatic pumping, stainless steel internals, integral inlet & outlet check valves, motive steam & exhaust ports, 13.8 barg maximum operating pressure @ 198 °C.	Iron	N/A	N/A	N/A	150# FLG FNPT	2.0" In x 1.5" Out 0.5"	Condensate
53	PTH-CIP33101-103	Endress+Hauser	FMB50-1DFP1/0 (FMB50-CD31JD1FGFUPJB3U+19JAKBLWZ1)	P501BC01124	052911	Pressure transmitter, PROFIBUS PA output, LCD display with push button control, aluminum housing, 0.5" FNPT IP66/68 / NEMA 4X/6P cable entry, FDA synthetic oil fill fluid, direct diaphragm seal connection, 15 Ra + EP wetted surface finish. (Material, Surface Finish, ASME BPE, Calibration Certs Req'd)	316L SS	N/A	0 - 6 psig	24 VDC	Universal Adapter	44mm	Final Rinse Tank



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2-TANK CIP SKID
 CIP-33-101 (RH)
 MECHANICAL BOM

ITEM #	TAG #	MANUFACTURER	MANUFACTURER PART #	SERIAL # / LOT #	SMI PART #	DESCRIPTION	MATERIAL	ACTUATION	RANGE	ELEC. SPEC.	CONN. TYPE	SIZE	LOCATION
54	PTH-CIP33101-203	Endress+Hauser	FMB50-1DFP1/0 (FMB50-CD31JD1FGFUPJB3U+I9JAKBLWZ1)	P501D001124	052911	Pressure transmitter, PROFIBUS PA output, LCD display with push button control, aluminum housing, 0.5" FNPT IP66/68 / NEMA 4X/6P cable entry, FDA synthetic oil fill fluid, direct diaphragm seal connection, 15 Ra + EP wetted surface finish. (Material, Surface Finish, ASME BPE, Calibration Certs Req'd)	316L SS	N/A	0 – 6 psig	24 VDC	Universal Adapter	44mm	Rinse / Wash Recirc. Tank
55	PTL-CIP33101-103	Endress+Hauser	FMB50-1DFQ9/0 FMB50-CD31JD1FGFTDJB3U+I9JAKBLWZ1	P6002301124	052910	Pressure transmitter, PROFIBUS PA output, LCD display with push button control, aluminum housing, 0.5" FNPT IP66/68 / NEMA 4X/6P cable entry, FDA synthetic oil fill fluid, direct diaphragm seal connection, 15 Ra EP wetted surface finish. (Material, Surface Finish, ASME BPE, Calibration Certs Req'd)	316L SS	N/A	0 – 6 psig	24 VDC	TC	2.0"	Final Rinse Tank
56	PTL-CIP33101-203	Endress+Hauser	FMB50-1DFQ9/0 FMB50-CD31JD1FGFTDJB3U+I9JAKBLWZ1	P6003701124	052910	Pressure transmitter, PROFIBUS PA output, LCD display with push button control, aluminum housing, 0.5" FNPT IP66/68 / NEMA 4X/6P cable entry, FDA synthetic oil fill fluid, direct diaphragm seal connection, 15 Ra + EP wetted surface finish. (Material, Surface Finish, ASME BPE, Calibration Certs Req'd)	316L SS	N/A	0 – 6 psig	24 VDC	TC	2.0"	Rinse / Wash Recirc. Tank
57	SG-CIP33101-001	LJ Star	METACLAMP-8SEP	553885/52511	053131	Sight glass, 20-Ra + EP max wetted surface finish. (Material and Surface Finish Certs Req'd)	Duplex 2205 Borosilicate	N/A	N/A	N/A	TC	8.0"	Final Rinse Tank
58	SG-CIP33101-002	LJ Star	METACLAMP-8SEP	553885/52511	053131	Sight glass, 20-Ra + EP max wetted surface finish. (Material and Surface Finish Certs Req'd)	Duplex 2205 Borosilicate	N/A	N/A	N/A	TC	8.0"	Rinse / Wash Recirc. Tank
59	SM-334-9277	Velan	F10-0064C-02TY	K1A008165	047778	Valve, gate, full port, forged body, 150# pressure rating, bolted bonnet, CoCR alloy seat, 13CR stem/wedge, handwheel.	Carbon Steel	Manual	N/A	N/A	150# RFF	3.0"	Steam Supply
60	SM-334-9278	Velan	W03-G1602-SSEZ	N/A	053049	Ball valve, 2-piece, cast body, full port, 300 pressure rating, mill finish, 316/316L SS trim, TFM seats/seals/packing, 1/4 turn locking lever handle.	Carbon Steel	Manual	N/A	N/A	SW	0.5"	Steam Supply
61	NA	Keckley	SA-7-3.0"	N/A	053044	Strainer, Y-type, Class 150#, 0.047" perforated 304 SS screen, 1" blow-down port.	Carbon Steel	N/A	N/A	N/A	150# FLG	3.0"	Steam Supply



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2-TANK CIP SKID
 CIP-33-101 (RH)
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ITEM #	TAG #	MANUFACTURER	MANUFACTURER PART #	SERIAL # / LOT #	SMI PART #	DESCRIPTION	MATERIAL	ACTUATION	RANGE	ELEC. SPEC.	CONN. TYPE	SIZE	LOCATION
62	NA	Keckley	SB-7-1.5"	N/A	053045	Strainer, Y-type, Class 600#, 0.0625" perforated 304 SS screen, 3/4" blow-down port.	Carbon Steel	N/A	N/A	N/A	SW	1.5"	Condensate
63	SM-334-9287	Velan	W03-G1602-SSEZ	N/A	053049	Ball valve, 2-piece, cast body, full port, 300 pressure rating, mill finish, 316/316L SS trim, TFM seats/seals/packing, 1/4 turn locking lever handle.	Carbon Steel	Manual	N/A	N/A	SW	0.5"	Steam Supply Strainer
64	T-334-0226	Spirax Sarco	0.75 - BT6-BH (1803051)	1119-C-AAWAB	052859	Steam trap, thermostatic, balanced pressure, high capacity, 15 Ra + EP internal surface finish, PTFE encapsulated seal. (Material, Surface Finish, USP Class VI Certs Req'd)	316L SS	N/A	N/A	N/A	TC	0.75"	CWFI Sample
65	TD-334-0003	Spirax Sarco	0.75 - TD42L (0683762)	D19	033574	Steam trap, thermodynamic, integral strainer, 42 barg maximum operating pressure @ 400 °C.	CA40 SS	N/A	N/A	N/A	FNPT	0.75"	Condensate
66	TI-CIP33101-102	Ashcroft	50EI60E090-XC4PD-0/100°C	E564024	053138	Thermometer, bimetal, 5" dial size, 304 SS case and stem, acrylic lens, adjustable angle, 9.00" overall length. (Calibration Certs Req'd)	N/A	N/A	0 – 100 °C	N/A	MNPT	0.5"	Final Rinse Tank
67	TIT-CIP33101-002	Endress+Hauser	TM412-4290/101 TM412-CA2AD32A14B2B501C EBC15ABB+HEJAKBK WSCTBZ1	P7042923459	052912	Temperature transmitter, Ø 0.375" OD x 4" immersion length, 15 Ra + EP wetted surface finish, nipple-union-nipple neck, Pt100 Class A 4-wire RTD, Ø 6mm sheath, PROFIBUS PA output, LCD display, IP66/68 / NEMA 4X aluminum housing, 0.5" FNPT cable entry. (Material, Surface Finish, ASME BPE, Calibration Certs Req'd)	316L SS	N/A	5 – 100°C	24 VDC	TC	2.0"	CIP Supply
68	TIT-CIP33101-012	Endress+Hauser	TM412-4290/101 TM412-CA2AD32A14B2B501C EBC15ABB+HEJAKBK WSCTBZ1	P7043D23459	052912	Temperature transmitter, Ø 0.375" OD x 4" immersion length, 15 Ra + EP wetted surface finish, nipple-union-nipple neck, Pt100 Class A 4-wire RTD, Ø 6mm sheath, PROFIBUS PA output, LCD display, IP66/68 / NEMA 4X aluminum housing, 0.5" FNPT cable entry. (Material, Surface Finish, ASME BPE, Calibration Certs Req'd)	316L SS	N/A	5 – 100°C	24 VDC	TC	2.0"	CIP Return



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2-TANK CIP SKID
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69	TIT-CIP33101-042	Endress+Hauser	TM412-4279/101 (TM412-CA2AD22A14A4B501C EBC15ABB+JAKBKWS CTBZ1)	P504A923459	052913	Temperature transmitter, Ø 0.375" OD x 2" immersion length, 15 Ra + EP wetted surface finish, nipple-union-nipple neck, Pt100 Class A 4-wire RTD, Ø 6mm sheath, PROFIBUS PA output, LCD display, IP66/68 / NEMA 4X aluminum housing, 0.5" FNPT cable entry. (Material, Surface Finish, ASME BPE, Calibration Certs Req'd)	316L SS	N/A	5 – 100°C	24 VDC	TC	1.0"/1.5"	CWFI Sample
70	TIT-CIP33101-202	Endress+Hauser	TM412-4284/101 (TM412-CA0AA00E00X3B501CE BC15ABB+SCTBZ1)	P6046823459	052914	Temperature transmitter, Ø 0.25" OD sheath x 9" insertion length, nipple-union-nipple neck, Pt100 Class A 4-wire RTD, PROFIBUS PA output, LCD display, IP66/68 / NEMA 4X aluminum housing, 0.5" FNPT cable entry. (Calibration Certs Req'd)	316L SS	N/A	5 – 100°C	24 VDC	MNPT	0.5"	Rinse / Wash Recirc. Tank
71	TIT-CIP33101-293	Endress+Hauser	TM412-4290/101 TM412-CA2AD32A14B2B501C EBC15ABB+HEJAKBK WSCTBZ1	P7041523459	052912	Temperature transmitter, Ø 0.375" OD x 4" immersion length, 15 Ra + EP wetted surface finish, nipple-union-nipple neck, Pt100 Class A 4-wire RTD, Ø 6mm sheath, PROFIBUS PA output, LCD display, IP66/68 / NEMA 4X aluminum housing, 0.5" FNPT cable entry. (Material, Surface Finish, ASME BPE, Calibration Certs Req'd)	316L SS	N/A	5 – 100°C	24 VDC	TC	2.0"	CIP Recirc
72	TV-CIP33101-293	Fisher Baumann	2" 54-2454CVF / DVC6200p	F002404304	052861	Valve, globe, 2-way, in-line body, 548= % trim, 2.00" port dia. / Cv = 55, stainless steel plug, metal seat, pneumatic actuator, PROFIBUS PA positioner.	Carbon Steel Body w/ SS Internals	F.C.	N/A	24 VDC	150# FLG	2.0"	Steam Supply
73	V-334-9276	PBM	SIHFE8X-G--04A	107488/0007 HF-NJ 9SH0300-LHO 9SH0300-LHO	052895	Ball valve, 3-piece, forged body, 20 Ra ID / foundry finish OD, 316L SS trim, TFM seats/seals/packing, 1/4 turn locking lever handle. (Material and Surface Finish Certs Req'd)	316L SS	Manual	N/A	N/A	TC	1.0"	Rinse / Wash Recirc. Tank Vent Filter Vent
74	V-334-9279	Velan	W03-8036W-02TS	N/A	053046	Valve, check, piston, forged body, 1690 pressure rating, inclined, welded bonnet, 316/316L SS piston, Stellite 6 seat.	Carbon Steel	N/A	N/A	N/A	SW	0.5"	Condensate Vent
75	V-334-9284	PBM	SIHFE8X-G--04A	107488/0007 HF-NJ 9SH0300-LHO 9SH0300-LHO	052895	Ball valve, 3-piece, forged body, 20 Ra ID / foundry finish OD, 316L SS trim, TFM seats/seals/packing, 1/4 turn locking lever handle. (Material and Surface Finish Certs Req'd)	316L SS	Manual	N/A	N/A	TC	1.0"	Final Rinse Tank Vent Filter Vent



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76	VS-CIP33101-001	T&C Stainless	TC9089	TC9089	052248	Tank, Ø 54" ID x 54" sidewall, ASME stamped 45/-15 psig @ 20/350°F, 2" chloride free insulation sidewall and bottom w/ seal welded sheathing, 24" manway w/ spring assist and USP Class VI peroxide-cured EPDM elastomers, ASME flanged and dished top and bottom heads, disc-style vortex breaker, (2) lifting lugs, (2) grounding lugs, 20-Ra + EP ID x 32-Ra OD finish, ID/OD welds ground smooth and flush, (4) 3" Sch. 40 Legs w/ 8" square base plates for skid mounting. Fittings: (B) 3.0" T.C. Btm Head - Outlet (L1) 2.0" T.C. Top Head - High Level (L2) 2.0" Spud Btm Head - Low Level (M1) 24" Manway Top Head w/ 8" TC for SG (P1) 2.0" T.C. Top Head - Pressure Gauge (P2) 2.0" T.C. Top Head - Upper Level (P3) 2.0" Spud Btm Head - Lower Level (R) 2.0" T.C. Top Head - Relief (S1) 2.0" B.C. Sidewall - Spare (T) 0.5" FNPT Btm Head - Thermowell (V) 1.5" T.C. Top Head - Vent (W1) 4.0" T.C. Top Head - WFI Inlet (W3) 4.0" T.C. Top Head - WFI Inlet (W2) 2.0" T.C. Top Head - Spare (X1) 2.0" T.C. Top Head - Spare (X2) 2.0" T.C. Top Head - Spare (X3) 2.0" B.C. Sidewall - Spare (Y1) 2.0" B.C. Top Head - Light (G) 8.0" T.C. Manway - Sight Glass (ASME Documentation, MTR's, Welding Procedures, Elastomer Certificate of Conformance, Drain Cert, Surface Finish Cert, Hydrostatic Test Report, Radiographic Test Report, Dye Penetrant Test Report Req'd)	316L SS (wetted surfaces) 304/304L SS (non-wetted surfaces)	N/A	N/A	N/A	See Fittings List	2,000 L working	Final Rinse Tank (RH)
77	VS-CIP33101-001-W1	Sani-Matic	298555	298555-VS-CIP33101-001-W1	298555	Spray ball assembly, 180° up, 2.5" dia. ball, 20-Ra EP, directionally drilled. (MTR's, Weld Docs, Surface Finish Certs Req'd)	316L SS	N/A	21.5 gpm @ 30 psi	N/A	TC	2.0" x 4.0"	Final Rinse Tank HWFI / CWFI Supply
78	VS-CIP33101-001-W3	Sani-Matic	298561	298561-VS-CIP33101-001-W3	298561	Spray ball assembly, 180° up, 2.5" dia. ball, 20-Ra EP, directionally drilled. (MTR's, Weld Docs, Surface Finish Certs Req'd)	316L SS	N/A	21.5 gpm @ 30 psi	N/A	TC	2.0" x 4.0"	Final Rinse Tank HWFI / CWFI Supply



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2-TANK CIP SKID
 CIP-33-101 (RH)
 MECHANICAL BOM

ITEM #	TAG #	MANUFACTURER	MANUFACTURER PART #	SERIAL # / LOT #	SMI PART #	DESCRIPTION	MATERIAL	ACTUATION	RANGE	ELEC. SPEC.	CONN. TYPE	SIZE	LOCATION
79	VS-CIP33101-002	T&C Stainless	TC9069	TC9069	052246	Tank, Ø 54" ID x 54" sidewall, ASME stamped 45/-15 psig @ 20/350°F, 2" chloride free insulation sidewall and bottom w/ seal welded sheathing, 24" manway w/ spring assist and USP Class VI peroxide-cured EPDM elastomers, ASME flanged and dished top and bottom heads, disc-style vortex breaker, (2) lifting lugs, (2) grounding lugs, 20-Ra + EP ID x 32-Ra OD finish, ID/OD welds ground smooth and flush, (4) 3" Sch. 40 Legs w/ 8" square base plates for skid mounting. Fittings: (B) 3.0" T.C. Btm Head - Outlet (F1) 2.0" T.C. Top Head - Caustic Inlet (F2) 3.0" T.C. Top Head - CIP Return (F3) 2.0" T.C. Top Head - CIP Recirc (L1) 2.0" T.C. Top Head - High Level (L2) 2.0" Spud Btm Head - Low Level (M1) 24" Manway Top Head w/ 8" TC for SG (P1) 2.0" T.C. Top Head - Pressure Gauge (P2) 2.0" T.C. Top Head - Upper Level (P3) 2.0" Spud Btm Head - Lower Level (R) 2.0" T.C. Top Head - Relief (S1) 2.0" B.C. Sidewall - Spare (T) 0.5" FNPT Btm Head - Thermowell (V) 1.5" T.C. Top Head - Vent (W1) 4.0" T.C. Top Head - WFI Inlet (W3) 4.0" T.C. Top Head - WFI Inlet (W2) 2.0" T.C. Top Head - Spare (X1) 2.0" T.C. Top Head - Spare (X2) 2.0" T.C. Top Head - Spare (X3) 2.0" B.C. Sidewall - Spare (Y1) 2.0" B.C. Top Head - Light (G) 8.0" T.C. Manway - Sight Glass (ASME Documentation, MTR's, Welding Procedures, Elastomer Certificate of Conformance, Drain Cert, Surface Finish Cert, Hydrostatic Test Report, Radiographic Test Report, Dye Penetrant Test Report Req'd)	316L SS (wetted surfaces) 304/304L SS (non-wetted surfaces)	N/A	N/A	N/A	See Fittings List	2,000 L working	Rinse / Wash Recirc. Tank (RH)
80	VS-CIP33101-002-W1	Sani-Matic	298215	298215-VS-CIP33101-002-W1	298215	Spray ball assembly, 180° up, 2.5" dia. ball, 20-Ra EP, directionally drilled. (MTR's, Weld Docs, Surface Finish Certs Req'd)	316L SS	N/A	21.5 gpm @ 30 psi	N/A	TC	2.0" x 4.0"	Rinse / Wash Recirc. Tank HWFI / CWFI Supply
81	VS-CIP33101-002-W3	Sani-Matic	298241	298241-VS-CIP33101-002-W3	298241	Spray ball assembly, 180° up, 2.5" dia. ball, 20-Ra EP, directionally drilled. (MTR's, Weld Docs, Surface Finish Certs Req'd)	316L SS	N/A	21.5 gpm @ 30 psi	N/A	TC	2.0" x 4.0"	Rinse / Wash Recirc. Tank HWFI / CWFI Supply
82	XV-CIP33101-001	Gemü	650 50D59405E14T1 SF4, 4242IOLZ010101014103 075+Y	7481-19 88496688	053316	Diaphragm valve, two-way forged body, 15 Ra + EP internal finish, as-cast external finish, USP Class VI peroxide-cured EPDM backed USP Class VI PTFE diaphragm, pneumatic actuator, IO-Link switchbox with 2-position feedback and integral solenoid. (Material, Surface Finish, and Diaphragm Certs Req'd)	316L SS	F.C.	N/A	24 VDC	BW	2.0"	CIP Supply Flow Meter Drain



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83	XV- CIP33101-005	Gemü	650 50D80405E14T1 SF4 4242IOLZ010101014103 075+Y	7594-19 88657264	053317	Diaphragm valve, two-way forged body, 15 Ra + EP internal finish, as-cast external finish, USP Class VI peroxide-cured EPDM backed USP Class VI PTFE diaphragm, pneumatic actuator, IO-Link switchbox with 2-position feedback and integral solenoid. (Material, Surface Finish, and Diaphragm Certs Req'd)	316L SS	F.C.	N/A	24 VDC	TC x BW	2.0"	CIP Supply
84	XV- CIP33101-010 XV- CIP33101-006	Gemü	P600M 03-02.SR 41 SF4 B3IK 687 13/N 650 14T1 5059 5059 5059 505E 505E, 4242IOLZ010101014103 075+Y, 4242IOLZ010101014103 075+Y	7538-19 99112037	052768	Diaphragm valves, multi-port wrought body configuration 03-02.SR, 15 Ra + EP internal finish, as-machined external finish, USP Class VI peroxide-cured EPDM backed USP Class VI PTFE diaphragms, pneumatic actuators, IO-Link switchboxes with 2-position feedback and integral solenoids. (Material, Surface Finish, and Diaphragm Certs Req'd)	316L SS	F.C. F.C.	N/A	24 VDC 24 VDC	BW BW	2.0" 2.0"	CIP Return CIP Recirc
85	XV- CIP33101-015	Gemü	687 50D59405E13/N SF4, 4242IOLZ010101014103 075+Y	7482-19 88512593	052769	Diaphragm valve, two-way forged body, 15 Ra + EP internal finish, as-cast external finish, USP Class VI peroxide-cured EPDM backed USP Class VI PTFE diaphragm, pneumatic actuator, IO-Link switchbox with 2-position feedback and integral solenoid. (Material, Surface Finish, and Diaphragm Certs Req'd)	316L SS	F.C.	N/A	24 VDC	BW	2.0"	CIP Return to Rinse / Wash Recirc. Tank
86	XV- CIP33101-016	Gemü	687 50D80405E13/N 5059 SF4, 4242IOLZ010101014103 075+Y	7591-19 88509058	052767	Diaphragm valve, two-way forged body, 15 Ra + EP internal finish, as-cast external finish, USP Class VI peroxide-cured EPDM backed USP Class VI PTFE diaphragm, pneumatic actuator, IO-Link switchbox with 2-position feedback and integral solenoid. (Material, Surface Finish, and Diaphragm Certs Req'd)	316L SS	F.C.	N/A	24 VDC	TC x BW	2.0"	CIP Return to Drain
87	XV- CIP33101-041	Gemü	625 20D59405211/N SF4, 4242IOLZ070101014102 030+Y+(SL)	7510-19 88483566	053053	Diaphragm valve, two-way forged body, 15 Ra + EP internal finish, as-cast external finish, USP Class VI peroxide-cured EPDM backed USP Class VI PTFE diaphragm, pneumatic actuator, IO-Link switchbox with 2-position feedback, integral solenoid and stroke limiter. (Material, Surface Finish, and Diaphragm Certs Req'd)	316L SS	F.C.	N/A	24 VDC	BW	0.75"	HWFI Sample



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2-TANK CIP SKID
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88	XV- CIP33101- 042B	Gemü	625 20T59415211/N 2059 SF4, 4242IOLZ070101014102 030+Y+(SL)	00UQA 88570449	053054	Diaphragm valve, wrought T-body, 15 Ra + EP internal finish, as-machined external finish, USP Class VI peroxide-cured EPDM backed USP Class VI PTFE diaphragm, pneumatic actuator, IO-Link switchbox with 2-position feedback, integral solenoid and stroke limiter. (Material, Surface Finish, and Diaphragm Certs Req'd)	316L SS	F.C.	N/A	24 VDC	BW	0.75"	CWFI Sample
89	XV- CIP33101- 042C	Gemü	625 20D59405211/N SF4, 4242IOLZ070101014102 030+Y	7440-19 88483566	052770	Diaphragm valve, two-way forged body, 15 Ra + EP internal finish, as-cast external finish, USP Class VI peroxide-cured EPDM backed USP Class VI PTFE diaphragm, pneumatic actuator, IO-Link switchbox with 2-position feedback and integral solenoid. (Material, Surface Finish, and Diaphragm Certs Req'd)	316L SS	F.C.	N/A	24 VDC	BW	0.75"	CWFI Sample SIP
90	XV- CIP33101- 049	Gemü	658 20T59415211T1 5059 SF4, 1755000ZA214A814N0, 1755000ZA214A814N0 ****Reference Only**** ASCO solenoid p/n: ASCO-EF8317H308- 24VDC	01U51 88632489	052772	Diaphragm valve, wrought T-body, 15 Ra EP internal finish, as-machined external finish, USP Class VI peroxide-cured EPDM backed USP Class VI PTFE diaphragm, pneumatic 2-stage actuator w/ (2) solenoids, NO IO-Link provided, 658 actuator includes: 1st stage built-in stroke limiter to set % flow rate, 2nd stage 100% flow rate. (Material, Surface Finish, and Diaphragm Certs Req'd)	316L SS	F.C.	N/A	24 VDC	BW	2.0" x 0.75"	CIP Return Sample
91	XV- CIP33101- 100	Gemü	687 65D59405E14/N SF4, 4242IOLZ010101014103 075+Y	7574-19 88560965	053055	Diaphragm valve, two-way forged body, 15 Ra + EP internal finish, as-cast external finish, USP Class VI peroxide-cured EPDM backed USP Class VI PTFE diaphragm, pneumatic actuator, IO-Link switchbox with 2-position feedback and integral solenoid. (Material, Surface Finish, and Diaphragm Certs Req'd)	316L SS	F.C.	N/A	24 VDC	BW	2.5"	Final Rinse Tank Drain
92	XV- CIP33101- 101	Gemü	687 65D80405E14/N 6559 SF4, 4242IOLZ010101014103 075+Y	00QV7 88625286	052773	Diaphragm valve, two-way forged body, 15 Ra + EP internal finish, as-cast external finish, USP Class VI peroxide-cured EPDM backed USP Class VI PTFE diaphragm, pneumatic actuator, IO-Link switchbox with 2-position feedback and integral solenoid. (Material, Surface Finish, and Diaphragm Certs Req'd)	316L SS	F.C.	N/A	24 VDC	TC x BW	2.5"	Final Rinse Tank to CIP Supply Pump



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2-TANK CIP SKID
 CIP-33-101 (RH)
 MECHANICAL BOM

ITEM #	TAG #	MANUFACTURER	MANUFACTURER PART #	SERIAL # / LOT #	SMI PART #	DESCRIPTION	MATERIAL	ACTUATION	RANGE	ELEC. SPEC.	CONN. TYPE	SIZE	LOCATION
93	XV-CIP33101-121	Gemü	687 40D80405E22/N 4059 SF4, 4242IOLZ070101014102 030+Y	7688-19 88632666	052774	Diaphragm valve, two-way forged body, 15 Ra + EP internal finish, as-cast external finish, USP Class VI peroxide-cured EPDM backed USP Class VI PTFE diaphragm, pneumatic actuator, IO-Link switchbox with 2-position feedback and integral solenoid. (Material, Surface Finish, and Diaphragm Certs Req'd)	316L SS	F.O.	N/A	24 VDC	TC x BW	1.5"	Final Rinse Tank Vent
94	XV-CIP33101-130	Gemü	687 50D59405E13/N SF4, 4242IOLZ010101014103 075+Y	7483-19 88512593	052769	Diaphragm valve, two-way forged body, 15 Ra + EP internal finish, as-cast external finish, USP Class VI peroxide-cured EPDM backed USP Class VI PTFE diaphragm, pneumatic actuator, IO-Link switchbox with 2-position feedback and integral solenoid. (Material, Surface Finish, and Diaphragm Certs Req'd)	316L SS	F.C.	N/A	24 VDC	BW	2.0"	HWFI Supply to Final Rinse Tank
95	XV-CIP33101-140 XV-CIP33101-043	Gemü	P600M 03-02.SR 41 SF4 B17X 687 13/N 625 11/N 5059 5059 208U 505E 1052, 4242IOLZ010101014103 075+Y, 4242IOLZ070101014102 030+Y+(SL)	5891-19 99107304	053056	Diaphragm valves, multi-port wrought body configuration 03-02.SR, 15 Ra + EP internal finish, as-machined external finish, USP Class VI peroxide-cured EPDM backed USP Class VI PTFE diaphragms, pneumatic actuators, IO-Link switchboxes with 2-position feedback, integral solenoids and stroke limiter. (Material, Surface Finish, and Diaphragm Certs Req'd)	316L SS	F.C. F.C.	N/A	24 VDC 24 VDC	BW TC	2.0" 0.75"	HWFI Supply to Rinse / Wash Recirc. Tank HWFI Flush
96	XV-CIP33101-200	Gemü	687 65D80405E14/N 6559 SF4, 4242IOLZ010101014103 075+Y	00QV9 88625286	052773	Diaphragm valve, two-way forged body, 15 Ra + EP internal finish, as-cast external finish, USP Class VI peroxide-cured EPDM backed USP Class VI PTFE diaphragm, pneumatic actuator, IO-Link switchbox with 2-position feedback and integral solenoid. (Material, Surface Finish, and Diaphragm Certs Req'd)	316L SS	F.C.	N/A	24 VDC	TC x BW	2.5"	Rinse / Wash Recirc. Tank Drain
97	XV-CIP33101-201	Gemü	687 65D59405E14/N SF4, 4242IOLZ010101014103 075+Y	7575-19 88560965	053055	Diaphragm valve, two-way forged body, 15 Ra + EP internal finish, as-cast external finish, USP Class VI peroxide-cured EPDM backed USP Class VI PTFE diaphragm, pneumatic actuator, IO-Link switchbox with 2-position feedback and integral solenoid. (Material, Surface Finish, and Diaphragm Certs Req'd)	316L SS	F.C.	N/A	24 VDC	BW	2.5"	Rinse / Wash Recirc. Tank to CIP Supply Pump



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2-TANK CIP SKID
 CIP-33-101 (RH)
 MECHANICAL BOM

ITEM #	TAG #	MANUFACTURER	MANUFACTURER PART #	SERIAL # / LOT #	SMI PART #	DESCRIPTION	MATERIAL	ACTUATION	RANGE	ELEC. SPEC.	CONN. TYPE	SIZE	LOCATION
98	XV- CIP33101- 209	Gemü	687 80D80405E14/N 8059 SF4, 4242IOLZ010101014103 075+Y	01CM1 88632343	052776	Diaphragm valve, two-way forged body, 15 Ra + EP internal finish, as-cast external finish, USP Class VI peroxide-cured EPDM backed USP Class VI PTFE diaphragm, pneumatic actuator, IO-Link switchbox with 2-position feedback and integral solenoid. (Material, Surface Finish, and Diaphragm Certs Req'd)	316L SS	F.C.	N/A	24 VDC	TC x BW	3.0"	Rinse / Wash Recirc. Tank Outlet
99	XV- CIP33101- 221	Gemü	687 40D80405E22/N 4059 SF4, 4242IOLZ070101014102 030+Y	7689-19 88632666	052774	Diaphragm valve, two-way forged body, 15 Ra + EP internal finish, as-cast external finish, USP Class VI peroxide-cured EPDM backed USP Class VI PTFE diaphragm, pneumatic actuator, IO-Link switchbox with 2-position feedback and integral solenoid. (Material, Surface Finish, and Diaphragm Certs Req'd)	316L SS	F.O.	N/A	24 VDC	TC x BW	1.5"	Rinse / Wash Recirc. Tank Vent
100	XV- CIP33101- 230 XV- CIP33101- 042A	Gemü	P600M 03-02.SR 41 SF4 B17X 687 13/N 625 11/N 5059 5059 208U 505E 1052, 4242IOLZ010101014103 075+Y, 4242IOLZ070101014102 030+Y	6098-19 99107304	052775	Diaphragm valves, multi-port wrought body configuration 03-02.SR, 15 Ra + EP internal finish, as-machined external finish, USP Class VI peroxide-cured EPDM backed USP Class VI PTFE diaphragms, pneumatic actuators, IO-Link switchboxes with 2-position feedback and integral solenoids. (Material, Surface Finish, and Diaphragm Certs Req'd)	316L SS	F.C. F.C.	N/A	24 VDC 24 VDC	BW TC	2.0" 0.75"	CWFI Supply to Final Rinse Tank CWFI Sample
101	XV- CIP33101- 240	Gemü	687 50D59405E13/N SF4, 4242IOLZ010101014103 075+Y	7484-19 88512593	052769	Diaphragm valve, two-way forged body, 15 Ra + EP internal finish, as-cast external finish, USP Class VI peroxide-cured EPDM backed USP Class VI PTFE diaphragm, pneumatic actuator, IO-Link switchbox with 2-position feedback and integral solenoid. (Material, Surface Finish, and Diaphragm Certs Req'd)	316L SS	F.C.	N/A	24 VDC	BW	2.0"	CWFI Supply to Rinse / Wash Recirc. Tank
102	XV- CIP33101- 260	Gemü	687 50D80405E13/N SF4, 4242IOLZ010101014103 075+Y	7524-19 88475511	052781	Diaphragm valve, two-way forged body, 15 Ra + EP internal finish, as-cast external finish, USP Class VI peroxide-cured EPDM backed USP Class VI PTFE diaphragm, pneumatic actuator, IO-Link switchbox with 2-position feedback and integral solenoid. (Material, Surface Finish, and Diaphragm Certs Req'd)	316L SS	F.C.	N/A	24 VDC	TC	2.0"	0.5 M Caustic Supply to Rinse / Wash Recirc. Tank



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2-TANK CIP SKID
 CIP-33-101 (RH)
 MECHANICAL BOM

ITEM #	TAG #	MANUFACTURER	MANUFACTURER PART #	SERIAL # / LOT #	SMI PART #	DESCRIPTION	MATERIAL	ACTUATION	RANGE	ELEC. SPEC.	CONN. TYPE	SIZE	LOCATION
103	XV-CIP33101-270	Gemü	625 20D80405211/N 2059 SF4, 4242IOLZ070101014102 030+Y	7584-19 88496622	052777	Diaphragm valve, two-way forged body, 15 Ra + EP internal finish, as-cast external finish, USP Class VI peroxide-cured EPDM backed USP Class VI PTFE diaphragm, pneumatic actuator, IO-Link switchbox with 2-position feedback and integral solenoid. (Material, Surface Finish, and Diaphragm Certs Req'd)	316L SS	F.C.	N/A	24 VDC	TC x BW	0.75"	Acid Supply to CIP Recirc Pump
104	XV-CIP33101-271	Gemü	625 20T59415211/N 2059 SF4, 4242IOLZ070101014102 030+Y	00UPZ 88570449	052771	Diaphragm valve, wrought T-body, 15 Ra + EP internal finish, as-machined external finish, USP Class VI peroxide-cured EPDM backed USP Class VI PTFE diaphragm, pneumatic actuator, IO-Link switchbox with 2-position feedback and integral solenoid. (Material, Surface Finish, and Diaphragm Certs Req'd)	316L SS	F.C.	N/A	24 VDC	BW	0.75"	Acid Supply Flow Meter Drain
105	XV-CIP33101-273	Gemü	625 20D80405211/N 2059 SF4, 4242IOLZ070101014102 030+Y	0LFMB 88496622	052777	Diaphragm valve, two-way forged body, 15 Ra + EP internal finish, as-cast external finish, USP Class VI peroxide-cured EPDM backed USP Class VI PTFE diaphragm, pneumatic actuator, IO-Link switchbox with 2-position feedback and integral solenoid. (Material, Surface Finish, and Diaphragm Certs Req'd)	316L SS	F.C.	N/A	24 VDC	TC x BW	0.75"	Acid Supply to CIP Recirc Pump
106	XV-CIP33101-291	Gemü	687 65D80405E14/N 6559 SF4, 4242IOLZ010101014103 075+Y	00QV8 88625286	052773	Diaphragm valve, two-way forged body, 15 Ra + EP internal finish, as-cast external finish, USP Class VI peroxide-cured EPDM backed USP Class VI PTFE diaphragm, pneumatic actuator, IO-Link switchbox with 2-position feedback and integral solenoid. (Material, Surface Finish, and Diaphragm Certs Req'd)	316L SS	F.C.	N/A	24 VDC	TC x BW	2.5"	Rinse / Wash Recirc. Tank to CIP Recirc Pump
107	XV-CIP33101-295 ZSO-CIP33101-295 ZSC-CIP33101-295	PBM	SDE-K5B-Z--34-U360 (PAVCL453S--0125) (BTS-DSU35) Turck p/n: Ni4-DSU35-2AP4X2-B1160-FKE4.5 ASCO p/n: EF8551A001MS-24 VDC	107488/0009	052896	Ball valve, 3-piece, carbon steel body, full port, mill finish, 316/316L SS ball/stem, TFM seats/seals/packing, spring return pneumatic actuator, 2-position 1/4 turn feedback, integral solenoid, standard I/O.	Carbon Steel	F.C.	N/A	24 VDC	BW (Sch.40)	3.0"	Steam Supply



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 CIP-33-101 (RH)
 MECHANICAL BOM

ITEM #	TAG #	MANUFACTURER	MANUFACTURER PART #	SERIAL # / LOT #	SMI PART #	DESCRIPTION	MATERIAL	ACTUATION	RANGE	ELEC. SPEC.	CONN. TYPE	SIZE	LOCATION
108	XV- PMCI3310 1001-002	Gemü	605 15D80405A10/N SF4, 4242IOLZ070101014102 030+Y	0LFZY 88483548	052778	Diaphragm valve, two-way forged body, 15 Ra + EP internal finish, as-cast external finish, USP Class VI peroxide-cured EPDM backed USP Class VI PTFE diaphragm, pneumatic actuator, IO-Link switchbox with 2-position feedback and integral solenoid. (Material, Surface Finish, and Diaphragm Certs Req'd)	316L SS	F.C.	N/A	24 VDC	TC	0.5"	CIP Recirc Pump Drain
109	XV- PMCI3310 1002-002	Gemü	625 20D80405211/N SF4, 4242IOLZ070101014102 030+Y	000SI 88513540	052779	Diaphragm valve, two-way forged body, 15 Ra + EP internal finish, as-cast external finish, USP Class VI peroxide-cured EPDM backed USP Class VI PTFE diaphragm, pneumatic actuator, IO-Link switchbox with 2-position feedback and integral solenoid. (Material, Surface Finish, and Diaphragm Certs Req'd)	316L SS	F.C.	N/A	24 VDC	TC	0.75"	CIP Supply Pump Drain
110	YL- CIP33101- 105	Canty	N6UU8F00-LED (light) S482 (mill certs) S483-5 (CoC) Alternate P/N: (HYL80-LED-1T-EXP- 24V-NI.PLTD-NBHTGB- 2"TRI-0"INS- 20RaEP,LIGHT SYST.)	170533	053144	Sight glass with light w/ 20-Ra + EP surface finish. Includes (Note: Includes On/Off push button control box provided by SMI.) (Material, Conformance, and Surface Finish Certs Req'd)	Hastelloy C276	N/A	N/A	24 VDC	BC	2.0"	Final Rinse Tank
111	YL- CIP33101- 205	Canty	N6UU8F00-LED (light) S482 (mill certs) S483-5 (CoC) Alternate P/N: (HYL80-LED-1T-EXP- 24V-NI.PLTD-NBHTGB- 2"TRI-0"INS- 20RaEP,LIGHT SYST.)	170544	053144	Sight glass with light w/ 20-Ra + EP surface finish. Includes (Note: Includes On/Off push button control box provided by SMI.) (Material, Conformance, and Surface Finish Certs Req'd)	Hastelloy C276	N/A	N/A	24 VDC	BC	2.0"	Rinse / Wash Recirc. Tank
112	ZSC- CIP33101- 111	ifm efector	IFT202	N/A	050764	Proximity switch, inductive, 12mm barrel diameter, 7mm sensing distance, N.O., PNP output, Nema 4x, IP68/69K enclosure, 0°C - 100°C operating temp.	SS	N/A	N/A	24 VDC	N/A	N/A	Final Rinse Tank Manway
		Turck	RKV4.5T-10		053300	Cable, M12 Eurofast, 5-Pin, Female,10m (Sani-Matic Ass'y# 285015)							



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SMI PROJECT #: 10174001
 CUSTOMER: CSL Behring

2-TANK CIP SKID
 CIP-33-101 (RH)
 MECHANICAL BOM

Printed: 10/23/2021
 Rev. H
 VDR: L02A, L02B, L04, L08, L09, L10, L11, R05

ITEM #	TAG #	MANUFACTURER	MANUFACTURER PART #	SERIAL # / LOT #	SMI PART #	DESCRIPTION	MATERIAL	ACTUATION	RANGE	ELEC. SPEC.	CONN. TYPE	SIZE	LOCATION
113	ZSC-CIP33101-211	ifm efector	IFT202	N/A	050764	Proximity switch, inductive, 12mm barrel diameter, 7mm sensing distance, N.O., PNP output, Nema 4x, IP68/69K enclosure, 0°C - 100°C operating temp.	SS	N/A	N/A	24 VDC	N/A	N/A	Rinse / Wash Recirc. Tank Manway
		Turck	RKV4.5T-10		053300	Cable, M12 Eurofast, 5-Pin, Female, 10m (Sani-Matic Ass'y# 285015)							

SMI PROJECT #: 10174001
CUSTOMER: CSL Behring

2-TANK CIP SKID
CIP-33-101 (RH)
MECHANICAL BOM

Printed: 10/23/2021
Rev. H
VDR: L02A, L02B, L04, L08, L09, L10, L11, R05

ITEM #	TAG #	MANUFACTURER	MANUFACTURER PART #	SERIAL # / LOT #	SMI PART #	DESCRIPTION	MATERIAL	ACTUATION	RANGE	ELEC. SPEC.	CONN. TYPE	SIZE	LOCATION
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Revision Log:

Rev. A, 27-DEC-2018:

Submitted for Customer Review & Approval.

Rev. B, 01-APR-2019:

Revised per Customer Comments and Change Orders 1-4, along with 5-6 that apply.

Rev. C, 12-SEP-2019:

Revised per Customer BOM Approval Comments, CO's 1-13, Additional Customer Requests & Air Iso Vlvs. Issued with FAT for Review.

Rev. D, 29-NOV-2019:

Revised per Piping Drawing releases.

Rev. E, 01-JUL-2020:

Revised per prox switch p/n and other corrections.

Rev. F, 31-JUL-2020:

Per pre-FAT.

Rev. G, 27-MAY-2021:

As built for TOP.

Rev. H, 23-OCT-2021:

Corrections for TOP.



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