

CWP CHEMICAL PUMP UPTAKE SYSTEM

The chemical pump system, which uses Minncare® HD Disinfectant for RO system disinfecting, was occasionally experiencing random self-priming problems. This was primarily attributed to off-gassing causing an air lock in the pump head.

Starting with **CWP RO serial number 1299919**, a new chemical pump system has been implemented into production.

Auto purging vent line allows gasses to return to the Minncare bottle.

New ergonomic integrated fluid and electrical connectors (now available for retro-fit, see page 2).



Chemical pick-up tube with auto purge return line designed to fit tightly in Minncare bottle.

A **Chemical Panel Upgrade Kit, P/N W3T577999**, is available for CWP's with the older pump and plastic chemical panel. This kit includes a new stainless steel chemical panel, auto purge pump, chemical pick-up tube and all required fittings, tubing, and components along with detailed instructions on how to install.



Refer to Tech Note 241 (W3T575587) for PM kit information. Additional spare part numbers are now available for future repairs. Certain legacy parts have been discontinued due to these design changes and their recommended replacements are listed on the last page of this document. There is no stock available of the legacy parts.

For users with the current SS chemical panel, new spare parts are available to replace the fluid and electrical connectors in case of failure. These parts include each panel mounted flange (W2T912225 for DISINFECT flange; W2T912226 for OPERATION flange), the hose connector from the pump to the flanges (W2T912224), and in case of failure of just the QD portion of the disinfect flange, a replacement cartridge is available (W3T577693).

Etatron PKX010889F was the chemical pump model used on the CWP from serial number 1299919, up to serial number 1369929. This pump used the silicone duck bill style check valves (W2T912127). Starting with serial number 1369930, the Etatron PKX010888T chemical pump was implemented in production (same form, fit, function). This new pump uses ceramic ball check valves. Refer to the parts list below for ordering details.

A redundant 2 PSI check valve was added to the CWP design in December 2020 to prevent backflow from the recirculation line through the chemical pump and/or the disinfection port. It replaces the JACO fitting (W2T914258) used to connect the chemical pump's discharge line to the CWP recirculation line (see image below). This JACO style check valve has been added to all CWP PM-B kits and can also be ordered separately (W3T578207).



2 PSI JACO style check valve (W3T578207)

JACO

REPLACEMENT PARTS

New P/N	Description	Replaces original P/N
W2T912126	PUMP, DOSING, 7 L/HR, 2 BAR, 110V~, AUTOPURGE	WTW613005002
W2T914733	PUMP, DOSING, PVDF HEAD ONLY W/AUTOPURGE	WTW613007001
W2T912131	TUBE, CHEMICAL PICK UP, PP	WTW615020001
W2T912224	KIT, SPARE, CHEM WAND, CWP	N/A
W2T912225	KIT, SPARE, CHEM FLANGE, DISINFECT, CWP	N/A
W2T912226	KIT, SPARE, CHEM FLANGE, OPERATE, CWP	N/A
W3T577693	KIT, SPARE, CHEM PORT CRTRDG ONLY, CWP	N/A
W3T577999	KIT, CWP SS CHEM PANEL UPGRADE	N/A
W2T912127	VALVE, LIP, SILICONE, PKX SERIES PUMPS	WT2510003
W2T912148	VALVE, HOLDER, PVDF, FOR P/N 3027819	N/A
W3T577814	KIT, NIPPLE/NUT, PVDF, CHEM PUMP-889F, CWP	N/A
W2T918674	DIAPHM, REPLT, PTFE, DOSING PUMP-889F, CWP	N/A
W2T921398	FTGS, SUCT/PRG, PVDF, CHEM PUMP-888T, CWP	WTW607014001
W2T921397	FTGS, DISCHARGE, PVDF, CHEM PUMP-888T, CWP	WTW607014001
W2T921116	DIAPHM, REPLT, PTFE, DOSING PUMP-888T, CWP	WT2510207
W3T578207	KIT, REPLT, CHECK VALVE, JACO, CHEM SYS, CWP	OS1110294

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