

**COUPLINGS for  
CLINICAL DIALYSIS  
SYSTEMS**



**SMC:** Compact design; polypropylene version with EPDM seals provides chemical resistance  
**Material:** Acetal, polypropylene, polycarbonate  
**Termination Sizes:** 1/8 NPT or 1/16" – 1/8" hose barb  
**Feature:** Smallest coupling; twist to connect



**PLC:** Suitable for small to medium size water line connections; mates with metal LC couplings  
**Material:** Acetal  
**Termination Sizes:** 1/4" - 3/8" hose barb or NPT pipe thread  
**Feature:** General purpose coupling ; metal thumb latch



**PLC12:** EPDM seal is suitable for use with acid, bicarbonate and chemical sanitizers; mates with metal LC couplings  
**Material:** Polypropylene  
**Termination Sizes:** 1/4" - 3/8" hose barb or NPT pipe thread  
**Feature:** Chemically-resistant coupling



**APC:** All plastic coupling for small to medium size water lines  
**Material:** Acetal  
**Termination Sizes:** 1/4" - 3/8" hose barb or NPT pipe thread  
**Feature:** Plastic-latched coupling



Pictured: NS2

**NS2, NS4, NS6:** Non-spill design for safe, secure connections  
**Material (NS2):** Glass-filled polypropylene  
**Termination Sizes:** 1/8" – 1/4" hose barb or 1/8" NPT pipe thread  
**Feature:** Compact design

**Material (NS4):** Glass-filled polypropylene, ABS  
**Termination Sizes:** 1/8" – 3/8" hose barb  
**Feature:** Plastic, non-spill design

**Material (NS6):** Glass-filled polypropylene  
**Termination Sizes:** 3/8" – 1/2" hose barb  
**Feature:** Higher flow, non-spill design

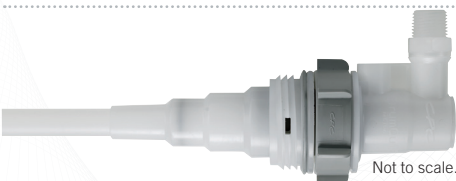


**MPC:** Small to medium size coupling with Class V or Class VI seal material options  
**Material:** Medical-grade ABS, polycarbonate and polysulfone  
**Termination Sizes:** 1/4" and 3/8" hose barbs, non-valved only  
**Feature:** Medical-grade coupling



**HFC12:** For larger fluid lines that require chemical resistance such as spent dialysate lines or acid and bicarbonate connections

**HFC35:** For larger raw or RO water lines; includes female garden hose thread termination for connection to water spigots  
**Material:** HFC12: Polypropylene (as shown)  
HFC35: Polysulfone (white)  
**Termination Sizes:** 3/8" – 3/4" hose barb or NPT pipe thread  
**Feature:** High flow family of couplings



Not to scale.

**DRUMQUIK® PRO:** Secure, easy-to-use connection to acid or bicarbonate concentrate and sanitizer drums  
**Material:** Food grade, virgin polypropylene and polyethylene  
**Termination Sizes:** 3/8" – 3/4" hose barb, 1/2" NPT or 3/4" BSPP. Fits 2" buttress or BCS 56x4 threaded drum bungs.  
**Feature:** Integrated dip-tube and drum closure



Pictured: UDC  
Not to scale.

**FLEXIBLE PACKAGING:** Provide closed connection to bag-in-box chemical packaging; insert/cap with connector body  
**Material (Puncture Seal):** Polyethylene (LDPE) and polypropylene  
**Termination Sizes:** 1/4" - 3/8" hose barb - cap fits 38mm bag-in-box thread-on spout  
**Feature:** Puncture seal coupling

**Material (UDC):** Polypropylene  
**Termination Sizes:** 3/8" – 3/4" hose barb  
**Feature:** 38mm threaded cap



# CLINICAL DIALYSIS APPLICATIONS

Used in chemical and water applications worldwide, high performance CPC quick disconnect couplings are used in dialysis clinics on a wide variety from systems—from the acid and bicarbonate lines to the water lines used on reverse osmosis (RO) water treatment systems. Save time reconnecting pipe threads and tubing onto fixtures and hose barbs by installing high quality CPC quick disconnect couplings. CPC's non-spill and valved connections eliminate or minimize drips and spills.

✓ Larger clinics use a distribution system to produce the necessary fluids and chemicals in bulk on site. The distribution system delivers these systems from the mixing and water treatment systems in the back of the clinic to the dialysis machines. CPC panel mount couplings make machine set up fast and simple.

## DIALYSIS EQUIPMENT >>

Quick disconnect couplings are a great solution for connecting dialysis machines to acid, bicarbonate, RO water and chemical waste service lines or containers.\* Tubing and piping internal to the dialysis machine which require frequent connect/disconnect cycles can also be fitted with couplings for ease of maintenance. With tubing hose barb connections as small as 1/16" and pipe threads as small as 1/8" NPT, there are a wide range of coupling sizes.

### ACID/BICARBONATE LINE CONNECTIONS:

Polypropylene PLC12 with EPDM seals work well in this environment.

**RO WATER LINE CONNECTIONS:** Polysulfone HFC35 with EPDM seals are excellent couplings for this application.

### CHEMICAL WASTE LINE CONNECTIONS:

Polypropylene HFC12 with EPDM seals work well in this type of connection.

### SMALL TO MEDIUM LINES INTERNAL TO DIALYSIS

**EQUIPMENT:** SMC in acetal, polypropylene or polycarbonate; APC in acetal; MPC in medical-grade ABS, polycarbonate or polysulfone are good choices for your system design.

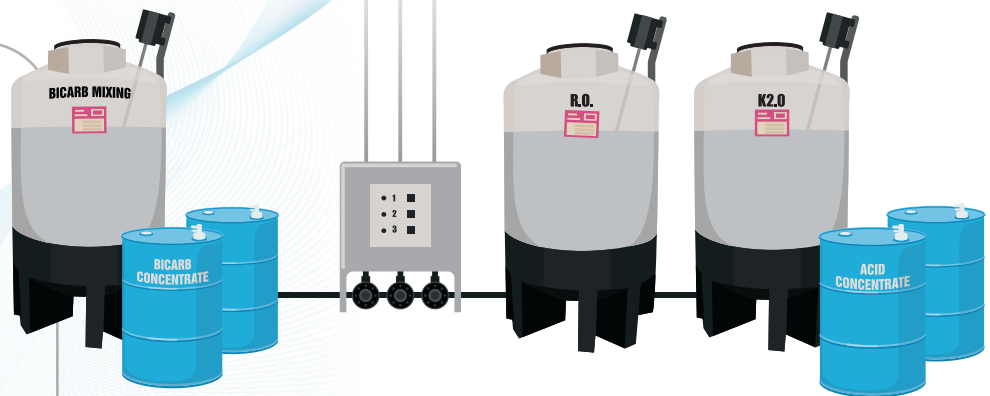
*\*Some dialysis OEM's require use of proprietary couplings for service connections.*



Smart fluid handling to take you forward, faster.

## DISTRIBUTION SYSTEMS

Biomedical technicians (“biomed techs”) who service dialysis equipment, RO water treatment systems and dialyzer reprocessing equipment save time and money by using the right couplings to disconnect equipment from acid, bicarbonate, RO water and disinfectant service lines. Replacement tubing, piping, pumps and tank vent filters are brought on line rapidly using quick disconnects to minimize down time.



### ▲ ACID/BICARBONATE MIXING SYSTEM

Pumps and tank vent filters are easily replaced when fitted with quick disconnect couplings. The DrumQuik® PRO drum connector provides a safe, closed connection to concentrated liquid acid or bicarbonate drums.



#### ACID/BICARBONATE PUMPS AND LINE CONNECTIONS:

Polypropylene HFC12 with EPDM seals are a good choice for your system design.

#### ACID/BICARBONATE TANK VENT FILTER CONNECTIONS:

Polypropylene PLC12 with EPDM seals work well in this environment.

**DISPENSING LINE CONNECTIONS TO DRUMS:** Polypropylene DrumQuik® PRO with EPDM seals are excellent couplings for this application.

## WATER TREATMENT SYSTEMS >>

Many RO systems already make use of PLC quick disconnect couplings to attach to pre-filtered water lines and down stream pumps, tanks or dialysis machines. Larger systems are quickly isolated or recycled for flushing or sanitizing purposes by using HFC35 couplings. Dispensing sanitizing chemistries to water systems are also facilitated by using polypropylene PLC12 couplings.

**RO WATER LINE CONNECTIONS:** Acetal PLC with Buna-N seals or polysulfone HFC35 with EPDM seals are a good choice for your system design.

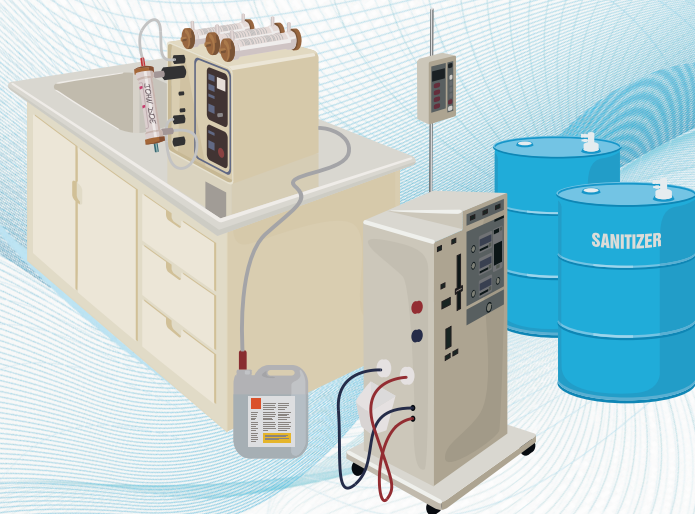
#### SANITIZING CHEMICAL CONNECTIONS:

Polypropylene PLC12 and DrumQuik® PRO with EPDM seals are excellent couplings for this application.



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## « ON-SITE DIALYZER REUSE REPROCESSING

Quick connects on dialyzer water flush manifolds and reuse reprocessing equipment quickly and securely connect the dialyzer filter element to reprocessing equipment, or to connect reprocessing equipment to chemical bag-in-box containers or service lines.

**DIALYZER QUICK CONNECTS:** APC in acetal, or MPC in ABS, polycarbonate or medical-grade polysulfone work well in this environment.

**CHEMICAL BAG-IN-BOX CONNECTIONS:** Polypropylene Puncture Seal (PS) or UDC are excellent connectors for this application.



## PORTABLE SYSTEMS RE-CHARGING AND MAINTENANCE »

By modularizing equipment with quick disconnect couplings, portable RO, carbon tanks and dialysis equipment are quickly and easily swapped out for repair and preventative maintenance or off-site re-charging. Automatic shutoff valves minimize spillage during changeovers.



### ACID/BICARBONATE AND CHEMICAL WASTE LINE CONNECTIONS:

Polypropylene PLC12 with EPDM seals work well in this environment.

**RO WATER LINE CONNECTIONS:** PLC with Buna-N seals are a good choice for your system design.



**CPC's** products are used across a broad range of medical devices and equipment, including surgical, dialysis, blood pressure monitoring, patient therapy devices, and in vitro diagnostics. A de facto standard in several applications, CPC connectors improve patient safety, prevent misconnections and increase the overall usability and effectiveness of medical devices. Medical device OEMs around the world choose CPC connectors because of our proven performance in the operating room, the life science lab, and the home healthcare setting.

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leadership in the quick disconnect market, and aggressively pursues and protects its proprietary information and intellectual property. In cases where it is practical and has a benefit to its customers, CPC has licensed its proprietary technology. Please contact CPC to discuss your unique needs.

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