DRUMQUIK® PRO / DRUMQUIK PUR
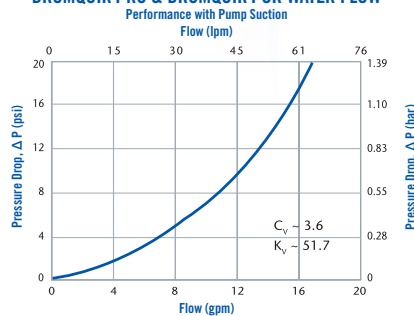
DRUMQUIK® DISPENSING SYSTEMS FOR SAFER CHEMICAL MANAGEMENT

Whether you're dispensing edible oils, condiments, detergents, specialty automotive fluids, or industrial chemicals, acids, caustics or solvents, DrumQuik PRO and the high purity DrumQuik PUR can make your process cleaner, faster and smarter.

- Provide the critical connection between your chemical container and the end use process
- Create a closed transfer system for workers and keep a cleaner work environment

DrumQuik solutions are available for a variety of container types providing interchangeable, reusable connections for:

- Plastic or steel drums
- Chemical packs
- IBCs or totes

DrumQuik® PRO and DrumQuik PUR dispensing systems are used with common pumps to create a closed transfer system for both general and high purity chemicals. These easy-to-use products meet the strict safety requirements of chemical handling applications as well as the demands of harsh operating environments. DrumQuik dispensing systems minimize chemical exposure and facilitate the delivery of chemicals from bulk transfer containers to end use applications.

For general chemical dispensing, DrumQuik PRO offers a rugged and cost-effective solution. DrumQuik PUR is a 100% metal-free, cleanroom packaged, PVDF product designed specifically for applications demanding the highest level of purity. All materials are compliant with FDA standards for food and consumables applications.

DID YOU KNOW

The DrumQuik PRO dispensing system has been UN/DOT certified with many common drums and IBCs for use with hazardous chemicals per 49 CFR 173 and German BAM 11027.

NOTE

- For high purity applications DrumQuik PUR provides the assurance of compatibility with chemicals used in semiconductor and flat panel production, pharmaceutical and photovoltaic or solar cell manufacturing.
- Made from virgin materials compliant with FDA and ROHS standards.

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DRUMQUIK PRO & DRUMQUIK PUR WATER FLOW
Performance with Pump Suction

This graph characterizes the flow of the DrumQuik PRO with the coupler vent port open to the atmosphere and a pump drawing liquid out.

PATENTED

DrumQuik® PRO and DrumQuik PUR are changing the world of chemical management with their unique closed-system design. Innovative DrumQuik systems help companies reduce costs and improve efficiencies. From basic chemical handling to specialty high purity and pharmaceutical applications, DrumQuik dispensing systems make chemical management cleaner, faster, safer and smarter.

DRUMQUIK PRO

FEATURES	BENEFITS
Quick connect/disconnect	→ Allows faster drum change-outs
Automatic shutoff valve	→ Stops flow when disconnected
Disposable drum insert	→ Reduces messy handling and chemical exposure
Ported vent system for vapor management	→ Allows make-up air into drum or connection of blanket gas (N2,CO2)
Multiple standard thread sizes	→ Can be used with many common steel and plastic containers

DRUMQUIK PUR

FEATURES	BENEFITS
Quick connect/disconnect	→ Allows faster drum change-outs
All plastic construction	→ No metallic corrosion/contamination
Automatic shutoff valve	→ Stops flow when disconnected
Cleanroom manufactured	→ Assures high level of purity
Disposable drum insert	→ Minimizes chemical exposure & contamination

SPECIFICATIONS

PRESSURE:
Uncoupled: Vacuum to 45 psig, 3.1 bar
Coupled: Vacuum to drum rating

TEMPERATURE:
Drum insert:
-20°F to 120°F (-20°C to 49°C)
Coupler:
HDPE, 32°F to 120°F (0°C to 49°C)
PVDF, 0°F to 120°F (-18°C to 49°C)

MATERIALS:
Drum insert & dip-tube:
Virgin polyethylene (HDPE)
Shipping plug:
Virgin polyethylene (HDPE)
Coupler:
Virgin polypropylene (DrumQuik PRO)
Virgin PVDF (DrumQuik PUR)
Spring (coupler only):
316 stainless steel, Hastelloy® C, virgin PEEK UHP, PPS or PTFE encapsulated 316 stainless steel (TESS)
Seals:
   Coupler seals: EPDM, FKM, Simriz® UHP FFKM Perfluoroelastomer
   Bung seal: Polyolefin, EPDM, FKM
   Shipping plug seal: EPDM, FKM
Torque specifications:
2" Buttress - 20ft-lbs (27 N-m)
BCS 56x4 - 20ft-lbs (27 N-m)
BCS 70mm - 22ft-lbs (30 N-m)
2" NPS (plastic drum) - 20ft-lbs (27 N-m)
2" NPS (steel drum) - 15ft-lbs (20 N-m)
Shipping plug - 15inch-lbs (1.7 N-m)

NOTE: The torque specifications listed above are general recommendations which may need to be adjusted + or – depending on specific application.

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COUPLERS - Polypropylene

PART NUMBER	DESCRIPTION
DQPRO120312	3/4" Hose barb (EPDM seals, 316 SST spring)
DQPRO120208	1/2" Male NPT (EPDM seals, 316 SST spring)
DQPRO120208202	1/2" Male NPT (FKM seals, 316 SST spring)
DQPRO120208206	1/2" Male NPT (EPDM seals, Hastelloy C spring)
DQPRO120208207	1/2" Male NPT (FKM seals, Hastelloy C spring)
DQPRO120712	3/4" Male BSPP (EPDM seals, 316 SST spring)
DQPRO120712202	3/4" Male BSPP (FKM seals, 316 SST spring)
DQPRO120712206	3/4" Male BSPP (EPDM seals, Hastelloy C spring)
DQPRO120712207	3/4" Male BSPP (FKM seals, Hastelloy C spring)

COUPLERS - PVDF (3/4" Flare termination)

PART NUMBER	DESCRIPTION
DQPUR120112	FKM liquid contact seals, FKM vent seal, PEEK plastic spring
DQPUR120112203	Simriz® FFKM liquid contact seals, FKM vent seal, PEEK plastic spring
DQPUR120112209	Simriz FFKM liquid contact seals, FKM vent seal, PPS plastic spring
DQPUR120112210	FKM liquid contact seals, FKM vent seal, PTFE encapsulated 316 stainless steel (TESS) spring
DQPUR120112211	Simriz FFKM liquid contact seals, FKM vent seal, PTFE encapsulated 316 stainless steel (TESS) spring

DRUM INSERTS - Polyethylene (HDPE)

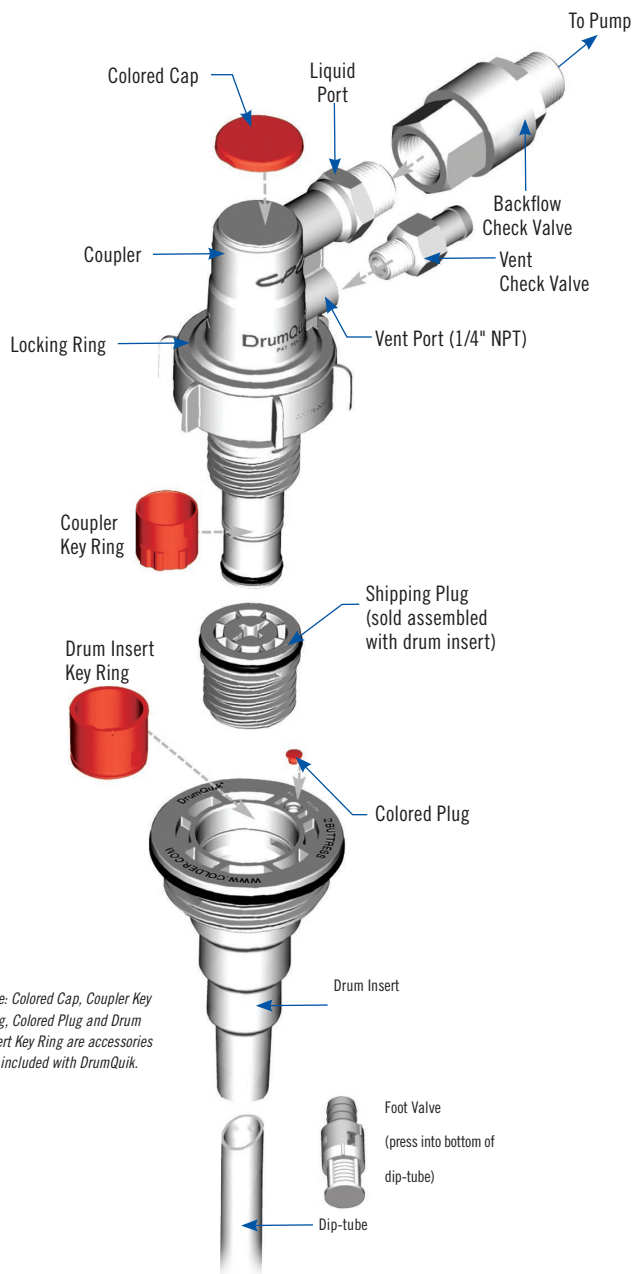| PART NUMBER	DESCRIPTION
DQPRO020BCS70	70mm thread, EPDM seals (70x6 and 70x5 plastic drums)
DQPRO020BCS70202	70mm thread, FKM seals (70x6 and 70x5 plastic drums)
DQPRO202BUT	2" American buttress thread, EPDM seals (No. Am. Plastic drums)
DQPRO202BUT202	2" American buttress thread, FKM seals (No. Am. Plastic drums)
DQPRO2056X4	BCS 56x4 thread, EPDM seals (European plastic drums)
DQPRO2056X4202	BCS 56x4 thread, FKM seals (European plastic drums)
DQPRO020G2NPSST	2" NPS (ISO G2) thread, EPDM seals (steel drums and IBC caps)
DQPRO020G2NPSST202	2" NPS (ISO G2) thread, FKM seals (steel drums and IBC caps)
DQPRO020G2NPSPL	2" NPS (ISO G2) thread, EPDM flat bung seal (plastic drums and IBC caps)
DQPRO020G2NPSPL202	2" NPS (ISO G2) thread, FKM flat bung seal (plastic drums and IBC caps)
DQPUR202BUT	2" American buttress thread, Polyolefin (POE) bung seal, EPDM shipping plug seal
DQPUR202BUT202	2" American buttress thread, Polyolefin (POE) bung seal, FKM shipping plug seal

DIP TUBES - Polyethylene (HDPE)

PART NUMBER	DESCRIPTION
DQPRODT0410	13.0" (330mm) long for 5 gal/25L jerry cans
DQPRODT0865	34.0" (865 mm) long for 250gal/950L IBC's
DQPRODT0985	35.5" (905mm) long for 55 gal/200L drums
DQPRODT1070	39.0" (990mm) long for 275 gal/1040L IBCs
DQPRODT1274	47.0" (1194mm) long for 330 gal/1250L IBCs
DQPURDT0985	35.5" (905mm) long for 55 gal/200L drums
DQPURDT1070	39.0" (990mm) long for 275 gal/1040L IBCs
DQPURDT1274	47.0" (1194mm) long for 330 gal/1250L IBCs

ASSEMBLED DRUM INSERTS & DIP-TUBES

PART NUMBER	DESCRIPTION
DQPUR2BUT0985	Drum insert assembly with universal dip-tube (drum), 905mm long (from sealing surface)

DRUMQUIK® PRO & PUR DISPENSING CONNECTOR SYSTEM

Note: Colored Cap, Coupler Key Ring, Colored Plug and Drum Insert Key Ring are accessories not included with DrumQuik.

VAPOR MANAGEMENT OPTIONS:

1. **OPEN:** Vent port left open to atmosphere
2. **REMOTE:** Vent port routed to fume hood, scrubber or vapor recovery system
3. **CHECKED:** Connect vent check valve to allow make-up air in without allowing fumes to escape
4. **BLANKET GAS:** Connect a CPC quick disconnect coupling for blanket gas (N2, CO2)
5. **FILTERED:** Connect vent filter

DRUMQUIK® PRO / DRUMQUIK PUR ACCESSORIES

COLOR CODING AND KEYING OPTIONS

– Colored Key Kits for Physical Coding: Polyethylene

DQPRO PART NUMBER	DQPUR PART NUMBER	DESCRIPTION
DQPROKEYCPRED01	DQPURKEYCPRED01	Key kit for coupler, red
DQPROKEYCPYEL02	DQPURKEYCPYEL02	Key kit for coupler, yellow
DQPROKEYCPGRN03	DQPURKEYCPGRN03	Key kit for coupler, green
DQPROKEYCPBRN04	DQPURKEYCPBRN04	Key kit for coupler, brown
DQPROKEYCPBLU05	DQPURKEYCPBLU05	Key kit for coupler, blue
DQPROKEYCPBLK99	DQPURKEYCPBLK99	Key kit for coupler, black

Key kits for coupler include coupler key ring and cap.

DQPROKEYDIRED01	DQPURKEYDIRED01	Key kit for drum insert, red
DQPROKEYDIYEL02	DQPURKEYDIYEL02	Key kit for drum insert, yellow
DQPROKEYDIGRN03	DQPURKEYDIGRN03	key kit for drum insert, green
DQPROKEYDIBRN04	DQPURKEYDIBRN04	Key kit for drum insert, brown
DQPROKEYDIBLU05	DQPURKEYDIBLU05	Key kit for drum insert, blue
DQPROKEYDIBLK99	DQPURKEYDIBLK99	Key kit for drum insert, black

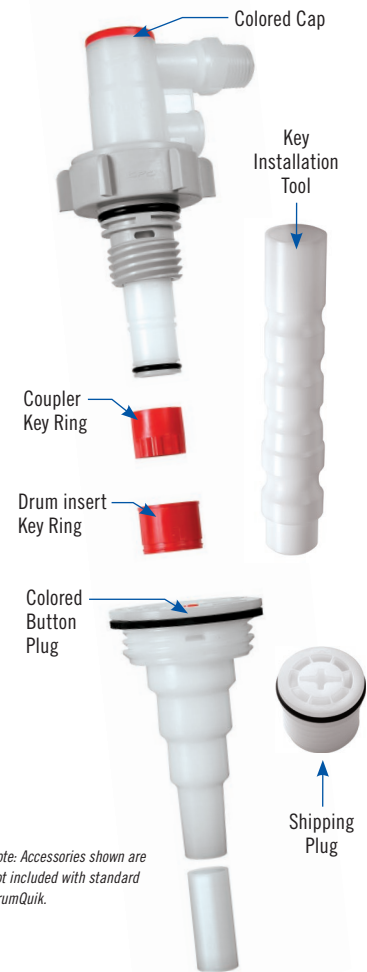*Key kits for drum insert include drum insert key ring and button plug.*

COLOR CODED PARTS

– Colored Caps & Button Plugs for Visual Coding: Polyethylene

PART NUMBER	DESCRIPTION
DQPROCAPGRY00	Colored cap for coupler, gray
DQPROCAPRED01	Colored cap for coupler, red
DQPROCAPYEL02	Colored cap for coupler, yellow
DQPROCAPGRN03	Colored cap for coupler, green
DQPROCAPBLU05	Colored cap for coupler, blue
DQPROCAPBLK99	Colored cap for coupler, black
DQPROPLUGGRY00	Colored button plug for drum insert, gray
DQPROPLUGRED01	Colored button plug for drum insert, red
DQPROPLUGYEL02	Colored button plug for drum insert, yellow
DQPROPLUGGRN03	Colored button plug for drum insert, green
DQPROPLUGBLU05	Colored button plug for drum insert, blue
DQPROPLUGBLK99	Colored button plug for drum insert, black

Note: Colored caps and button plugs can be used with both DrumQuik PRO and DrumQuik PUR.

DRUMQUIK® PRO & PUR KEY KITS

Colored Cap

Key Installation Tool

Coupler Key Ring

Drum insert Key Ring

Colored Button Plug

Shipping Plug

Note: Accessories shown are not included with standard DrumQuik.

COLOR CODING

ASSEMBLY

1. Fully press dip-tube into drum insert socket.

2. Place the drum insert assembly in drum.

3. Turn shipping plug counterclockwise to remove. Use a large, flat blade or #4 Phillips screwdriver.

4. Insert coupler into drum insert assembly.

5. Turn the coupler locking ring clockwise until stop is reached (approximately 2 full turns); valve is opened during this process.

DRUMQUIK® PRO / DRUMQUIK PUR ACCESSORIES

TOOLS

PART NUMBER	DESCRIPTION
2408900	Torque socket tool (blue, glass-filled nylon)
2479100	Bung wrench (aluminum)
2375600	Key installation tool for key kits (Shipping plug may also be used to install keys)

SAMPLE KITS
(Includes one coupler, one insert and one dip-tube)

PART NUMBER	DESCRIPTION
DQPRONASAMP	2" Buttress drum insert, 905mm dip-tube, 1/2 NPT coupler (EPDM O-rings, 316 SST spring in coupler)
DQPRONASAMP207	2" Buttress drum insert, 905mm dip-tube, 1/2 NPT coupler (FKM seals & Hastelloy® C spring in coupler)
DQPRONPSSTSAMP	2" NPS (ISO G2) drum insert, 905mm dip-tube, 1/2 NPT coupler (EPDM Bung O-rings, 316 SST spring in coupler)
DQPRONPSSTSAMP207	2" NPS (ISO G2) drum insert, 905mm dip-tube, 1/2 NPT coupler (FKM seals & Hastelloy® C spring in coupler)

SHIPPING PLUGS

PART NUMBER	DESCRIPTION
2007900	Shipping plug for drum insert (Does not include shipping plug o-ring)
2290100	Shipping plug o-ring, EPDM
2307200	Shipping plug o-ring, FKM
DQPURSP	Shipping Plug with EPDM seal
DQPURSP202	Shipping Plug with FKM seal

SAMPLE KITS
(Includes one coupler, one insert and one dip-tube)

PART NUMBER	DESCRIPTION
DQPURDISEALFEP	Drum insert FEP encapsulated silicone bung seal
2423400	Coupler o-ring kit, EPDM (Includes 2 o-rings)
2423500	Coupler o-ring kit, FKM (Includes 2 o-rings)
2166000	Drum insert flat gasket, 2" buttress, FDA EPDM
2165800	Drum insert o-ring, 2" NPS (ISO G2) EPDM for steel drums
2165900	Drum insert o-ring, 2" NPS (ISO G2) FKM for steel drums
2165800	Drum insert o-ring, BCS 56x4, EPDM (same as ISO G2 for steel)
2165900	Drum insert o-ring, BCS 56x4, FKM (same as ISO G2 for steel)
2525300	Drum insert flat gasket, 2" NPS (ISO G2) FKM for plastic drums
2594900	Replacement Drum Insert Seal, 2" Buttress, FDA
DQPRO70X6AD	70 X 6 Adaptor with EPDM O-Ring

SAMPLE KITS
(Includes one coupler, one insert and one dip-tube)

TETHER/DUST CAP

DQPROTETHER   Tether/Dust Cap for use with DrumQuik® PRO shipping plugs and couplers (PVC, Vinyl)

COUPLER VENT PORT OPTIONS

2879800	Vent check valve, 1/2" ID x 1/4" male NPT (316 SST, Santoprene)
2879801	Vent check valve, 1/2" ID x 1/4" male NPT (Hastelloy® C, FKM)
DQPROFIL01	Air filter, coupler vent port, 1/4" male NPT (polypropylene, 70 micron)
APCD24004	Vent coupling insert, 1/4" male NPT (Acetal, 316 SST, Buna-N)
APCD17004SH	Vent coupling body with shroud, 1/4" hose barb (Acetal, 316 SST, Buna-N)
APCD17006SH	Vent coupling body with shroud, 3/8" hose barb (Acetal, 316 SST, Buna-N)
EFCD24412	Vent coupling insert, 1/4" male NPT (Polypropylene, 316 SST, EPDM)
EFCD17412	Vent coupling body, 1/4" hose barb (Polypropylene, 316 SST, EPDM)
EFCD17612	Vent coupling body, 3/8" hose barb (Polypropylene, 316 SST, EPDM)

NOTE: Parts listed above are suggested for use in the vent port, but any 1/4" NPT CPC coupling can be used for blanket gas applications (see page 146)

BACKFLOW PREVENTION OPTIONS - POLYPROPYLENE

2478900	Check valve for couplers, 1/2" female NPT x 1/2" male NPT (EPDM, 302 SST)
2478901	Check valve for couplers, 1/2" female NPT x 1/2" male NPT (FKM, 302 SST)
2478902	Check valve for couplers, 1/2" female NPT x 1/2" male NPT (EPDM, Hastelloy C)
2478903	Check valve for couplers, 1/2" female NPT x 1/2" male NPT (FKM, Hastelloy C)
2479000	Foot valve for dip-tube, 1/2" hose barb (EPDM, 316 SST)
2479001	Foot valve for dip-tube, 1/2" hose barb (FKM, 316 SST)
2479002	Foot valve for dip-tube, 1/2" hose barb (EPDM, Hastelloy C)
2479003	Foot valve for dip-tube, 1/2" hose barb (FKM, Hastelloy C)

NOTE: CPC distributes the above check valves and foot valves. These valves are not produced by CPC and CPC makes no claims or warranty regarding suitability for use in specific applications.

COUPLER LIQUID PORT FITTINGS - POLYPROPYLENE

2402600	1/2" female NPT x 3/8" OD compression
2402700	1/2" female NPT x 1/2" OD compression
2402800	1/2" female NPT x 5/8" OD compression
2402900	1/2" female NPT x 3/8" ID hose barb
2403000	1/2" female NPT x 1/2" ID hose barb
2403100	1/2" female NPT x 3/4" ID hose barb

DQPUR ACCESSORY FITTINGS

DQPUR FR1208	Flare Reducer, PFA, 3/4" Female Flare x 1/2" Male Flare
DQPUR FI1216	Flare Increaser, PFA, 3/4" Female Flare x 1" Male Flare
DQPUR TFMC1208	Female flare x male connector, PFA, 3/4" Female Flare x 1/2" Male NPT
DQPUR SE0808	Sweep Elbow, PFA, 1/2" Female Flare x 1/2" Male Flare

NOTE
Use shipping plug or key installation tool to install keys. Orient ring with lugs down and drum insert key ring with shoulder up.

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Torque Tool

Bung Wrench

Refer to specifications for torque requirements (page 145)

Backflow Check and Foot Valves

Prevents liquid from draining back into drum when pump is off

Coupler Liquid Port Fittings

Shipping Plug

Key installation Tool

Universal 3-Port Drum Adaptor Kit
(shown with HFC12 and NS4)

Universal Drum Adaptor Kit (shown
with NSH Series)

DRUMQUIK® PRO / DRUMQUIK PUR ACCESSORIES

DRUMQUIK® 3-PORT UDA KIT - Polypropylene

The 3-Port UDA features a 3/4" male NPT thread that mates with common containers, bung plugs and caps. The adaptor ports enable simultaneous chemical extraction, venting or application of blanket gas. In addition, the third port can be used to recirculate priming chemical to the container in metering pump applications.

Optional system components including foot valves, air filters and vent check valves are also available. For your convenience, CPC offers a variety of drum adaptor plugs to facilitate easy drum connections. (See plugs and caps on page 148.)

PART NUMBER	DESCRIPTION
DQUDA3PKIT	3-port adaptor, EPDM seal, locking nut, 35.5" (905mm) dip-tube, 1/2" x 3/8" & 1/2" x 1/4" reducer bushings and 1/4" & 3/8" NPT plugs
DQUDA3PKIT202	3-port adaptor, FKM seal, locking nut, 35.5" (905mm) dip-tube, 1/2" x 3/8" & 1/2" x 1/4" reducer bushings and 1/4" & 3/8" NPT plugs
DQUDA3P	3-port adaptor bulk packaged (1/2" female NPT liquid outlet port, 3/8" & 1/4" NPT vent/recirculation ports)
DQUDA3PNUT	Locking nut for the 3-port adaptor
2717000	EPDM seal for the 3-port adaptor
2717100	FKM seal for the 3-port adaptor
2621400	Pipe plug, black polypropylene, 3/8" male NPT
	Use with PLC, Non-Spill, EFC and ChemQuik Series couplings.

NOTE

Can be used with many standard CPC quick disconnect couplings and standard bung plugs and bottle caps.

DRUMQUIK PLUGS AND CAPS

For your convenience, CPC offers several sizes of common bung plugs and caps that have the internal 3/4" female NPS thread, into which the DrumQuik Universal Drum Adaptors/ChemQuik couplings are threaded.

PART NUMBER	DESCRIPTION
DQMBUNGPP2BUT12	Bung closure, polypropylene, EPDM o-ring, 2" buttress x 3/4" female NPS
DQMBUNGPP2NPS12	Bung closure, polypropylene, EPDM o-ring, 2" NPS x 3/4" female NPS
DQMCAPPP70mm	Cap closure, polypropylene, EPDM o-ring, 70mm x 3/4" female NPS
DQMCAPPP63MM	Cap closure, polypropylene, EPDM o-ring, 63mm, 3/4" female NPS

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters. NOTE: The DQ UDA kits are designed to work with CPC couplings that have 3/4" NPT male terminations. The DQ UDA 3-Port kits are designed to work with a 1/2" NPT male on the liquid port and a 1/4" NPT male on the vent port. A 1/2" male NPT to 1/4" female NPT reducer bushing may be required to accommodate smaller NS4, PLC and PMC Series couplings. BottleQuik features two 3/8" female NPT ports. NOTE: DrumQuik Adaptors are intended for end-use applications not requiring compliance with UN/DOT standards for use in transportation of hazardous materials.

Type A
For use with closure plugs with a 3/4" NPS center port.

Type B
For use with closure plugs with a 1-3/8" buttress center port.

3/4" NPT inner port incorporates a face seal to assure a leak-free connection.

DQ UDA kits can be used with a wide range of closures.

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