

CQH SERIES CONNECTOR

The CQH Series are designed for high-purity use and feature all plastic construction. Molded, virgin materials and lubricant-free design enable use in the most demanding applications. Broad chemical compatibility and cleanroom manufacturing make them ideal for use in critical wet processes.



SPECIFICATIONS

CQH PRESSURE: 0 - 80 psig (0 - 5.5 bar)

CQH TEMPERATURE:
32°F to 225°F (0°C to 107°C)

CQH MATERIALS:

Main components: Natural, virgin polypropylene

Valve o-rings: FKM (black)

External insert o-ring:

Simriz® FFKM perfluoro (black)

Valve (wetted) and thumb latch spring: PEEK®

Flare nuts: PVDF

Lubricants: None used

SPILLAGE/AIR INCLUSION:

~1.5 cc (ml)/disconnect (reconnect)

Note: CQH are also available with optional PPS springs and Chemraz FFKM or EPDM seals.



SCAN

cpcworldwide.com/CQH

FEATURES

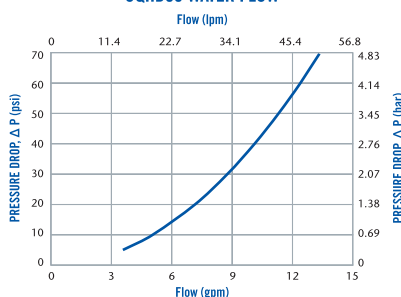
- 100% metal free → No risk of metal contaminants or corrosion
- High flow valve design → High flow in a compact package
- Disconnect under pressure → Speeds servicing and reduces risk of injury
- Polypropylene and PVDF → Broad chemical compatibility

BENEFITS

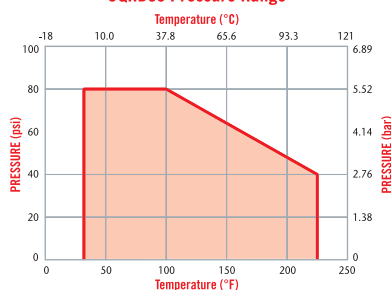
NOTE

See page 139 for ChemQuik Dual Containment Nut options.

CQHD06 WATER FLOW



CQHD06 Pressure Range



These graphs are intended to give you a general idea of the performance capabilities of each product line. The shaded area of each graph represents the operating range of the product family, i.e., upper and lower values are shown. Therefore, depending on the exact coupling configurations selected, you can reasonably expect values to fall within the shaded area.

CQH SERIES DIMENSIONS

COUPLING BODIES - Polypropylene

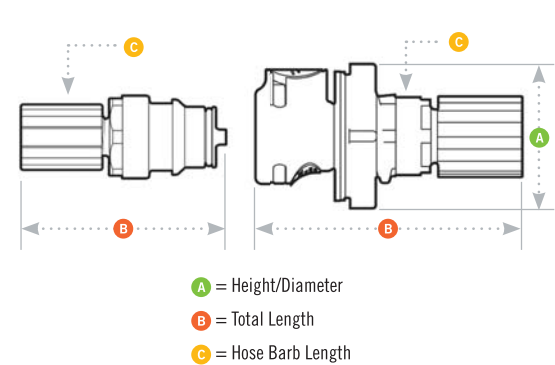
TERMINATION	TUBING/THREAD SIZE	TERMINATION TYPE	SHUTOFF	A	B	C
 IN-LINE	3/8" OD	Flare compression	CQHD06100106	1.44 (36.6)	3.38 (85.9)	
	3/8" Taper	Male NPT	CQHD06110206	1.82 (46.2)	2.73 (69.3)	1 (25.4)
 PANEL MOUNT						

COUPLING INSERTS - Polypropylene

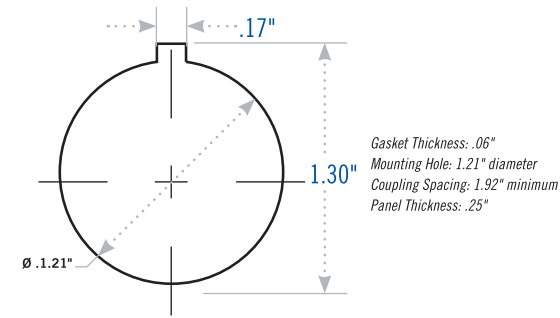
TERMINATION	TUBING/THREAD SIZE	TERMINATION TYPE	SHUTOFF	A	B	C
 IN-LINE	3/8" OD	Flare compression	CQHD06200106	1 (25.4)	2.55 (64.8)	1 (25.4)
	3/8" Taper	Male NPT	CQHD06200206	1.16 (29.5)	1.9 (48.3)	1 (25.4)

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters.

PRODUCT DIMENSIONS



PANEL DIMENSIONS



	PANEL OPENING	PANEL THICKNESS MAX.-MIN.
COUPLING BODIES	see drawing	.25 - .03

CQG SERIES CONNECTOR

The CQG06 Series high purity couplings feature our patented pressure-balanced, non-spill design. Molded virgin polypropylene and a 100% springless flow path provide broad chemical resistance and exceptionally high flow capacity, allowing instant disconnects (and reconnects), even under pressure.



SPECIFICATIONS

PRESSURE:

0 - 80 psig (0 - 5.5 bar)

TEMPERATURE:

32°F to 150°F (0°C to 66°C)

MATERIALS:

Main components:

Natural, virgin polypropylene

Seals: FKM (Simriz® FFKM optional)

Springs (non-wetted): Hastelloy® C

Flare nuts: PVDF

Lubricants: None used

Dual Containment Nut and Panel Mount Fitting:

Virgin, natural polypropylene

Flare nuts: PVDF

Panel nuts: HDPE

Panel mount o-rings: FKM

SPILLAGE/AIR INCLUSION:

<0.1 cc (ml)/disconnect (reconnect)

PANEL MOUNT: Optional adapter kit

TUBING SIZES:

3/8" to 3/4" flare; 3/8" to 3/4" NPT

WARNING: Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer's responsibility to test the suitability of CPC's products in their own application conditions.

FEATURES

Non-spill design

BENEFITS

Ultimate protection from chemicals and fumes

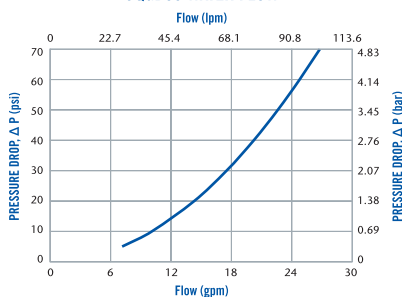
Pressure-balanced

Easy to reconnect at high pressure

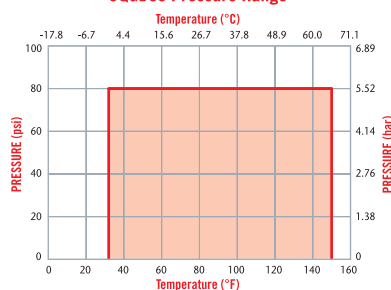
Springless flow path design

Eliminates source of metallic contaminants

CQGD06 WATER FLOW



CQGD06 Pressure Range



These graphs are intended to give you a general idea of the performance capabilities of each product line. The shaded area of each graph represents the operating range of the product family, i.e., upper and lower values are shown. Therefore, depending on the exact coupling configurations selected, you can reasonably expect values to fall within the shaded area.

NOTE

See page 139 for ChemQuik Dual Containment Nut options.



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CQG SERIES DIMENSIONS

COUPLING BODIES - Polypropylene

TERMINATION	TUBING/THREAD SIZE	TERMINATION TYPE	SHUTOFF	A	B	C
IN-LINE	3/8" OD	Flare compression	CQGD06100106	1.96 (49.8)	4.21 (106.9)	1 (25.4)
	1/2" OD	Flare compression	CQGD06100108	1.96 (49.8)	4.42 (112.3)	
	3/4" OD	Flare compression	CQGD06100112	1.96 (49.8)	4.49 (114.0)	
	1/2" Taper	Male NPT	CQGD06100208	1.96 (49.8)	3.81 (96.8)	

COUPLING INSERTS - Polypropylene

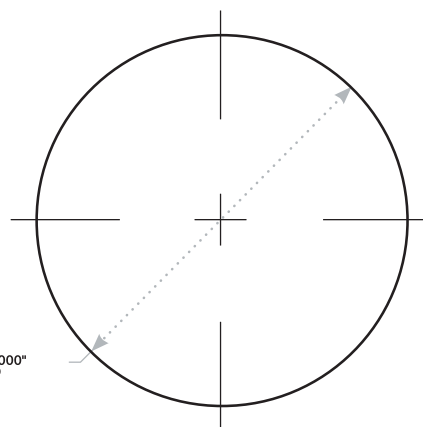
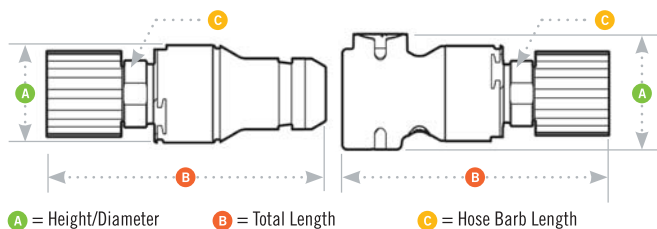
TERMINATION	TUBING/THREAD SIZE	TERMINATION TYPE	SHUTOFF	A	B	C
IN-LINE	3/8" OD	Flare compression	CQGD06200106	1.62 (41.1)	4.35 (110.5)	1 (25.4)
	1/2" OD	Flare compression	CQGD06200108	1.62 (41.1)	4.45 (113.0)	1 (25.4)
	3/4" OD	Flare compression	CQGD06200112	1.62 (41.1)	4.63 (117.6)	1 (25.4)
	3/8" Taper	Male NPT	CQGD06200206‡	1.62 (41.1)	3.81 (96.8)	
	1/2" Taper	Male NPT	CQGD06200208	1.62 (41.1)	3.95 (100.3)	
	3/4" Taper	Male NPT	CQGD06200212‡	1.62 (41.1)	4.15 (105.4)	

PANEL MOUNT ADAPTOR - Polyethylene

DESCRIPTION	PART NO.
Panel mount adapter kit (fits both bodies & inserts)	

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters.

PRODUCT DIMENSIONS



PANEL DIMENSIONS

	PANEL OPENING	PANEL THICKNESS MAX.-MIN.
COUPLING BODIES OR INSERTS	see drawing	0.50 - 0.12

CHEMQUIK® DUAL CONTAINMENT FLARE NUTS - Polypropylene



The ChemQuik® Dual Containment System is an easy way to "double contain" critical chemical lines, protecting plant and personnel in case a primary process line ruptures or "sweats". The system provides a protective secondary line to catch any fluid and routes it to a safe location.

These fittings work with any ChemQuik coupling with fine thread flare terminations or a common flare style fitting. In addition, the panel mount version can be mounted into a pump cabinet or other panel mount connection point. The primary line can then be routed from the coupling directly to a pump, connected to a ChemQuik coupling at the panel mount fitting.

The "weep port" serves to vent the area between the primary and secondary lines so that pressure cannot build up in case of a primary line rupture. The leaking fluid can then be routed to a containment vessel or to a leak detector.

FLARE NUT	DESCRIPTION
CQDCNUT0612	Dual containment nut, 3/8" OD process line x 3/4" OD secondary containment line.
	Dual containment nut, 1/2" OD process line x 3/4" OD secondary containment line.