

Valved Quick Connector (VQC)

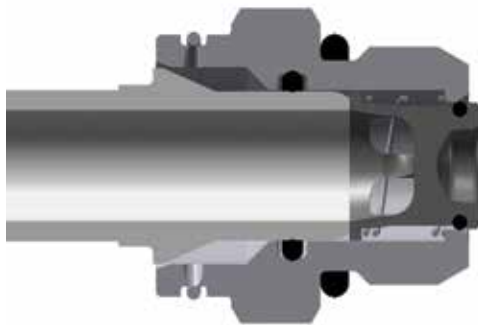
201 & 210 Quick Connectors



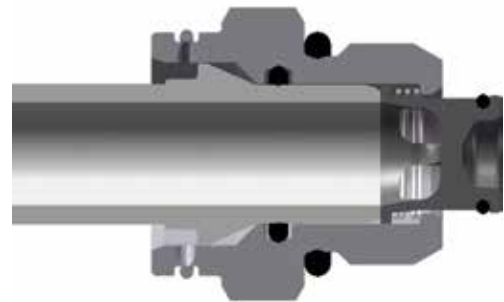
Recommended for Engine Oil Cooling, Transmission Oil Cooling, Turbocharger Cooling & Oil Supply, and Electric Vehicle Cooling Applications

Benefits

- Keeps factory floors clean & safe
- Low insertion force
- Retains fluid in assembly
- Improved cleanliness
- Keeps fluid in module during service
- Tool free installation
- Easily serviceable
- Space and weight savings



Valve CLOSED



Valve OPEN

ADVANTAGES

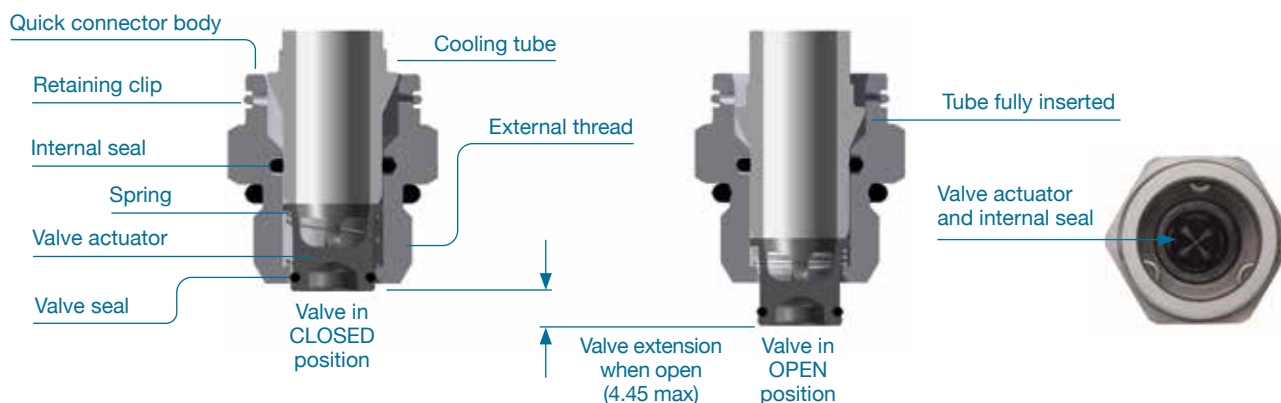
Assembler

- Receives fully filled transmission, turbocharger, battery pack, or other cooling module, eliminating expensive assembly line filling equipment
- Keeps manufacturing floor clean and safe eliminating potentially slippery surfaces
- Very low flow restriction
- Low installation and insertion force
- Available for all liquid cooling or lubricating fluids

Tier

- Ability to test assembly module with fluid to ensure fully functioning unit
- No need to drain and clean assembly module before shipping to OEM
- Flexible Inlet/Outlet port locations
- Add value by filling module prior to shipping which reduces OEM's capital equipment and assembly line real estate

VALVE QUICK CONNECTOR SYSTEM FEATURES



Quick connector body: Aluminum or plated steel material option - secures Valved Quick Connector to assembly module such as transmission, turbocharger, or battery tray via external threads. Spring washer available to retain plastic oil cooler housing with inner cooler when torqued.

Retaining clip: Secures fluid tube to Valved Quick Connector.

Internal seal: Seals fluid inside Valved Quick Connector and tube from the external environment (Available seal materials: FKM, AEM, and EPDM).

External O-ring: Seals Valved Quick Connector by retaining internal working fluid and keeping external environmental factors out (Available seal materials: FKM, AEM, and EPDM). Bonded or crush type seals also available.

Spring: Keeps valve closed until compressed by fluid tube.

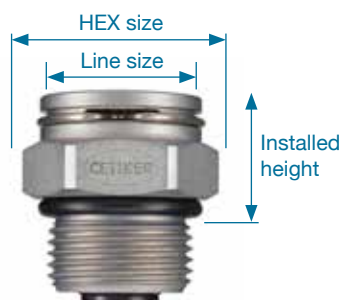
Valve actuator & seal: Polymer actuator features valve seal to 110%, retaining fluid when **closed**, while allowing maximum fluid flow when valve is **open**.

PRODUCT DESCRIPTION

The Valved Quick Connector (VQC) has all the benefits of the Oetiker Quick Connector while completely retaining fluid inside the vehicle module (i.e., transmissions or battery packs) until the fluid tube is inserted past the internal seal. Once the tube is installed into the quick connector, flow begins with minimal pressure drop. Transmissions, turbochargers, battery packs, and other cooling modules can be filled, tested, and shipped to the OEM without the need to drain and clean. With fluid retained inside the module, factory floors remain safe and clean during assembly or service featuring a 100% dry connection.

TECHNICAL DATA

Quick Connector dimensions

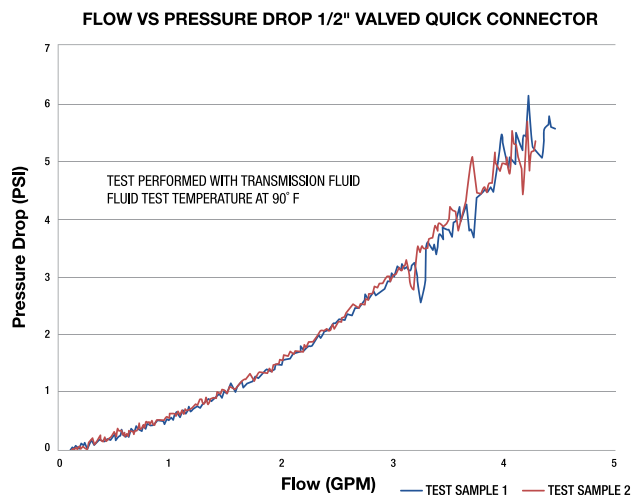


Valved Quick Connector

Line size (in)	Hex size (mm)	Installed height with tube installed
1/2" (12 mm)	31	21.34
5/8" (16 mm)	31	21.34
1"	31	21.34

Notes:

- Above dimensions are expressed nominally in metric units unless specified otherwise
- Also available in 3/8s
- Other seal materials under development
- This data is intended for reference only
- Rights to make technical changes are reserved



Pressure drop approximately 0.3 bar at 15 liters per minute of flow.