PRODUCT INFORMATION

THERMAL MANAGEMENT

Fluid connection solutions for Automotive
ARAYMOND, CLOSE TO YOU EVERYWHERE

1 center of expertise
11 engineering centers
26 manufacturing sites in 25 countries
7,200 employees
More than 150 years of experience
OVERVIEW

Application ............................................................... p.4
Thermal management ................................................ p.5
Secured connection .................................................... p.6
VDA QCs ................................................................. p.7
Compact design ......................................................... p.8
Adaptors/End pieces .................................................. p.9
Integrated sensors ..................................................... p.10
Integrated valves ...................................................... p.11
Reinforced QCs ........................................................ p.12
Solution for degas lines .............................................. p.13
A large range of solutions .......................................... p.14
Innovations .............................................................. p.15
APPLICATION
THERMAL MANAGEMENT

A key focus of ARaymond’s strategy

Both traditional engines (ICE) and new EV and hybrid EV powertrains require thermal management systems to enhance performance, lower fuel consumption, and increase battery life and capacity.

The space available in battery packs is very limited, making battery cooling complex. Thermal management must be responsive and consistent across the battery pack to ensure safety in an environment where both electrical components and fluids are present.

Whatever the system configuration is, ARaymond has a solution.
SECURED CONNECTION
for environment with electrical components

Our Quick Connectors can improve safety by assuring the connections have been made, especially in environment where both electrical components and fluids are present. With visual, tactile and audible proof, our QCs offer different options of connection according to your needs. To prevent installation errors, the locker can not be pushed down if the end piece is not fully engaged.
VDA QC\textsubscript{s} for all cooling lines

Our large range of robust and compact VDA Quick Connectors is compatible with all coolant fluids. They have low insertion effort to simplify assembly on the production line. Secure connections are critical and easily achieved with our compact VDA QC\textsubscript{s}.

**Low insertion effort with our new generation of VDA QC\textsubscript{s}**

DIAMETERS FROM NW6 TO NW32

COMPATIBLE WITH ALL COOLANT FLUIDS

CUSTOMIZED SOLUTION
COMPACT DESIGN
for limited space

The space in the battery packs is very constrained. Our 2-button compact Quick Connectors can fit and adapt to specific end pieces. Thanks to cartridge structure and modularity design, they can be adapted to various designs depending on system configuration.
ADAPTORS/END PIECES

The ARaymond adaptors and end pieces enable connections between all tube types. They can link together flexible hoses or polyamide tubes. Threaded end pieces or adaptors can be used in battery packs to connect inside and outside fluid lines.
INTEGRATED SENSORS to prevent battery thermal runaway

Both traditional internal combustion engines and EV/HEV powertrains require thermal management systems to enhance performance, lower fuel consumption, and increase battery life and capacity. Thermal management must be responsive and consistent across the battery pack to prevent battery thermal run-away.
INTEGRATED VALVES

to simplify fluid management

2-in-1 solutions like our Quick Connectors with integrated valves reduce the number of parts, lighten weight, and cut costs. Many functions can be embedded in our products (shut-off, one way, pressure regulator, calibrated valves…)
Available in several diameters, our integrated functions help service operation.

2-in-1 solutions

Shut-off valve is open when connected to an end piece and close when disconnected

One-way valve allows fluid to flow in one direction only
REINFORCED QCs
for high performance

Our specially-engineered metal insert to reinforce the connector body allows a high-pressure-resistant assembly solution. Our high performance QCs are particularly adapted for air conditioning line, engine or transmission oil cooling lines.
SOLUTION
for degas lines

Our product range can be adapted to all cooling lines. E-lock QC are particularly recommended for degas cooling water lines.

DIFFERENT GEOMETRIES

COMPACT

AVAILABLE WITH
ANTI ROTATION DEVICE

Minimal insertion force
A LARGE RANGE OF SOLUTIONS to transfer multiple fluids

As a pioneer in plastic Quick Connectors, we developed and patented our first 2-button QC more than 20 years ago. With the broadest range of Quick Connectors on the market, ARaymond covers all automotive fluid delivery systems.
INNOVATIONS for fluid control

Innovating and anticipating customers’ needs are our priority. We are working on intelligent and active fluid management solutions to simplify and optimize the thermal management of tomorrow’s vehicles.

PROVIDE A CONNECTION BETWEEN BATTERY PACK AND VEHICLE LINES

THERMOSTATIC VALVE FOR SMART AUTONOMOUS MANAGEMENT SYSTEM

SHUT-OFF SYSTEM ON BOTH SIDE TO PREVENT LEAKAGE DURING BATTERY CHANGE
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