Quick connectors

CAILLAU®

PRESENTATION

CAILLAU® quick connectors consist of a PA6.6 FV body and a stainless steel lock. They ensure tightness between a hose and a pipe-end for temperatures ranging from -40°C to +130°C (150°C peaks)

They are particularly adapted to automotive cooling, heating, hydraulic (power steering) and air intake applications.

CAILLAU offers different solutions for joining of the plastic quick connectors with the hoses (swaged rings, CLIC® E, VISA®, CLIC® R, …)

CHARACTERISTICS

- Quick fitting
- Compact
- Manual fitting and removal
- Reusable connector
- Withstands fluids (fuel, oil, glycol, …)
- Lock insensitive to ageing / corrosion (Salt spray resistance over 1 000hrs)

HOP® CONNECTORS

- Available references: diameters 8, 16, 18, 20 and 35mm
  (diameter of the pipe-end to be connected) in straight or offset
  (90° - 120°) versions
- Fitting force below 140 N
- Removal force below 100 N
- Pull-off force over 600 N
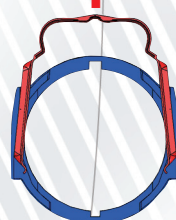- Withstand pressures up to 15 bar

VDA CONNECTORS

- Available references: diameter 22.3 and diameter 38.5 in straight or offset
  [90° - 120 - 135°] versions
- Fitting force below 140 N
- Removal force below 100 N
- Pull-off force over 2 000 N
- Withstand pressures up to 20 bar
- O-ring retained by a feature molded in the body (secure retention of the O-ring)
- Body and pipe-end can be interchanged (connector consisting of 2 welded parts)
- Body / pipe-end can be indexed in rotation: in order to ease implementation in vehicle
- Secure locking but easy removal without tools (pulling or pushing the lock)
- Lock is non-detachable and returns automatically to its default closed position
  (Failsafe to prevent loose assembly)
- For air intake applications, body / pipe-end can be provided in PA6.6, PPA, PA4.6, according to thermal constraints.
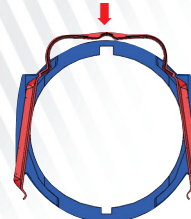- O-ring material adapted to the application (Vamac, EPDM, FKM, …)

Stainless steel lock
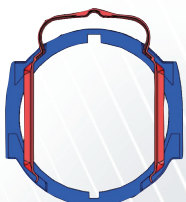Great pull-off strength
Generates minimal resistance
during assembly.

Stable state:
Locked connector

Opening by pulling
Unstable state: Open lock

Opening by pushing
Unstable state: Open lock

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