ENGINEERING TOMORROW

Danfoss Hansen® Quick disconnect couplings

# Introducing the Danfoss Hansen **aluminium flat face ADB coupling**

**Developed for cooling systems in electric applications with circulating water and antifreeze fluids. This coupling provides an enhanced solution to prevent spillage of cooling agent which can cause technical failures, system shutdowns, and difficult clean-ups.**

**Aluminium Flat Face ADB coupling offers no-spill, flat-face design, and high reliability**

## Endurance to exposure

**Aluminium construction extends life for safer operations and reduced maintenance**

Flat Face aluminium (ADB) coupling is light weight and strong, providing resistance to environmental exposure, pressure and mechanical stress.

It is designed to extend the life of the coupling, minimizing spill risk in critical electric cooling applications, offering end users reduced maintenance, and safer operations.

## Safe connection

**Aluminium construction enhances operations in demanding applications with heat and vibration compared to plastic couplings**

Optimal to be used in environments with vibration and heat exposure.

It connects with a 4-times safety factor at maximum operating pressure of 25 bar.

Options are available for railway applications with an enhanced version for vibration resistance tested according to EN 61373.

## High flow rates

**Up to 62% higher flow than ISO 16028 requirements to improve efficiency**

Higher pressure rate from 29% to 62% compared to ISO 16028 requirements, reducing pressure drops and increasing cooling system efficiency.

ENGINEERING
TOMORROW

- **Pre-guided system** that helps users pre-position the coupling in difficult environments, making connection easy and reducing maintenance time.
- **Full range of optional seals, end connections, and sizes** helping manufacturers benefit from the design in any type of application.
- Due to the aluminium material, ADB couplings are available in a **variety of color coding options**, and can be anodized in colors such as red, blue and even in gold, aiding assembly and field maintenance processes.

| ADB Model | ISO size | Body size | Normal Flow Diameter | Max. Operating Pressure | | Rating* Flow |
|---|---|---|---|---|---|---|
| | (mm) | (in) | (mm) | (bar) | (psi) | (lpm) |
| A2DB | 6.3 | 1/4" | 5.9 | 25 | 360 | 360 |
| A3DB | 10 | 3/8" | 9 | 25 | 360 | 360 |
| A4DB | 12.5 | 1/2" | 11.5 | 25 | 360 | 360 |
| A6DB | 19 | 3/4" | 15 | 25 | 360 | 360 |
| A8DB | 25 | 1" | 18.5 | 25 | 360 | 360 |

* Indicated values refer to a 1 bar/14.5 psi pressure drop

ENGINEERING
TOMORROW

**Danfoss Power Solutions,** Nordborgvej 81, 6430 Nordborg, Denmark, Tel. +45 74 88 22 22, Fax +45 74 65 25 80
www.danfoss.com, E-mail: info@danfoss.com