Aeroquip® Hydraulic Hose

**Dura-Pulse® Inner tube technology**

A fluid conveyance revolution from the inside out
What is Dura-Pulse® Technology?

Dura-Pulse® is a patented inner tube technology that allows hoses to be more durable, flexible, and cost-efficient.

As the experts in fluid conveyance, we challenged ourselves to develop a brand new inner tube starting at the molecular level. The result is a technology that enables new opportunities for our customers and shows how our connections move the world.

A breakthrough process

The power of Dura-Pulse® technology relies on a unique blend of polymers and reactive chemistry to achieve enhanced material properties. This brand new formulation of NBR (acrylonitrile butadiene rubber) features both the superior heat stability of peroxide-cured rubber and the outstanding flexibility of sulfur-cured rubber.

Excellence under pressure

Both spiral and two-wire braided hoses created with Dura-Pulse® technology exhibit superior pressure and heat resistance. The Aeroquip® EC600 X-Flex® spiral hose uses Dura-Pulse® technology to offer operating pressures up to 420 bar and temperatures up to 121°C, while the Aeroquip® Dynamax® EC881 two-wire braid hose handles pressures up to 450 bar and max temperatures of 126°C.

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<th>X-Flex® EC600</th>
<th>Dynamax® EC881</th>
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Take the **easy route**

Hoses with Dura-Pulse® inner tubing are more flexible than others in their class, boasting a superior 1/3 SAE bend radius for EC881 hoses. Engineers requiring the higher operating pressures that spiral hoses traditionally deliver often had to sacrifice flexibility. Now, our lighter-weight EC881 two-wire braided hose provides the flexibility needed for more direct routing while offering operating pressures up to 450 bar, making installs faster, easier, and more cost-efficient. In addition, overall machine weight is reduced for improved fuel efficiency.

### Wide range of applications

The durability, flexibility and longevity of hoses with Dura-Pulse® inner tubing make them useful in a variety of applications, especially in industries with compact machines that require high pressure performance in smaller, confined spaces:

- Refuse trucks
- Construction
- Agriculture
- Mining
- Oil & Gas

### Run longer

Hoses used in demanding applications often degrade because of high pressure spikes and impulses that are continually being applied to the hose. Hoses with Dura-Pulse® technology have up to 5x longer life than SAE/EN standards and support up to 1 million impulse cycles to ensure equipment performs reliably even in the harshest environments. With Dura-Pulse® technology, operators can reduce maintenance downtime and the possibility of hose failure. Plus, by combining hoses made with Dura-Pulse® inner tubing and our high-performance hose fittings, operators can achieve an even longer, leak-free hose assembly life.

### Current hoses with Dura-Pulse® inner tube technology

**Aeroquip®**

- **Dynamax® EC881**
  - Two-wire braided hose
  - 1 million impulse cycle performance up to 450 bar (6525 psi)
  - Superior flexibility 
    (1/3 SAE 100R2 bend radius at 100°C)

**Aeroquip®**

- **X-Flex® EC600**
  - Spiral hydraulic hose
  - 1.3 million impulse cycles at 420 bar (6100 psi)
  - Superior flexibility 
    (1/2 the bend radius of standard SAE 100R15 hose)
How can Dura-Pulse®
inner tube technology work for you?

Discover how the Dura-Pulse® products can make a difference in your business. Contact your Danfoss® sales representative to learn more.