

Design 2.0

Dry Disconnect Coupling



ART.NO. XB40 VERSION: 240409

MannTek

DESIGN 2.0

- A NEW STATE OF THE ART DDC

New Design Language

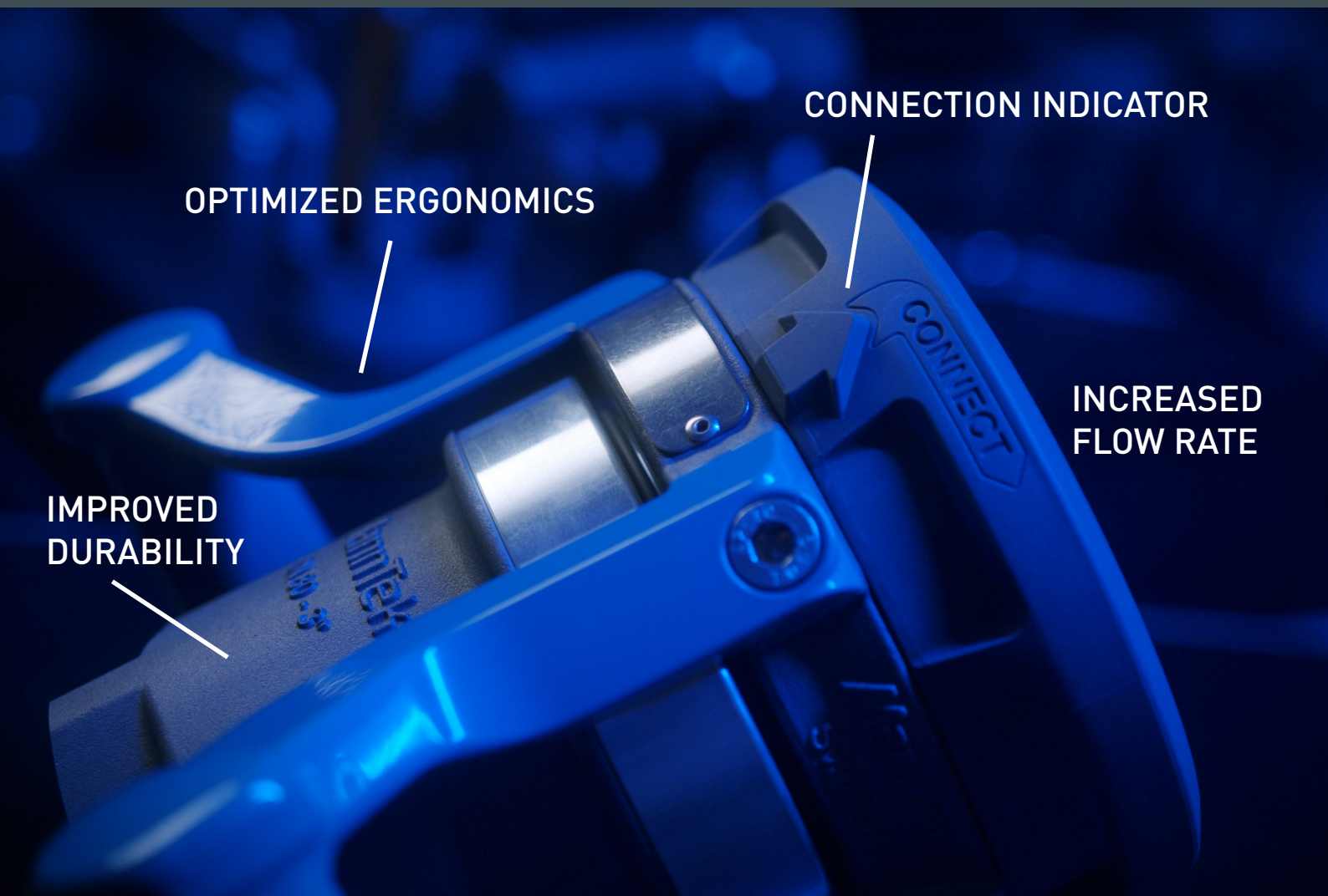
- Design based on handling and ergonomics
- Integrated shape of body, handles and bumper
- Bumper with guidance covering the roll axles
- Detail finish by new manufacturing methods
- Cylindrical handle interface reduces volume

New Market Leading Performance

- Up to 43% improved flow capacity
- Up to 55% reduction of coupling force
- Leading user ergonomics through force reduction and optimized handle design

Major Customer Benefits

- More convenient handling with reduced stress on muscles and joints
- Improved flow rate means shorter loading time and reduced energy consumption
- Increase of durability, through force reduction and new materials
- MannTek's easy-to-service design kept unchanged!



OPTIMIZED ERGONOMICS

CONNECTION INDICATOR

IMPROVED
DURABILITY

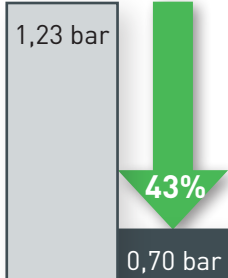
INCREASED
FLOW RATE

This diagram illustrates the performance improvements, measured in percentages, between our established coupling 1.0 and the new Design 2.0. The enhanced design has resulted in a significant improvement, with performance gains above 40% for flow capacity and above 55% for connect forces.

DDC 2 inch

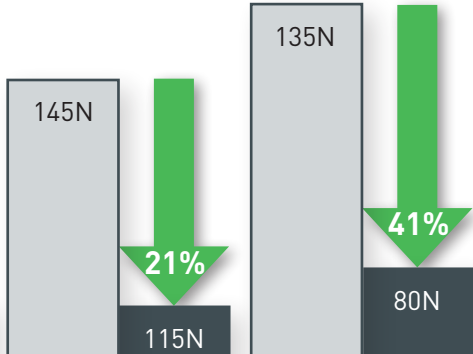


Flow capacity

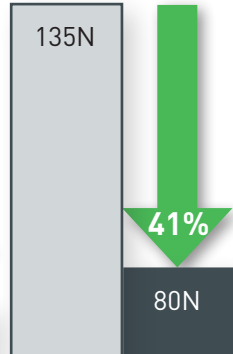


DDC 1.0 DDC 2.0
Pressure drop
 flow rate 800 l/min

Connect force



DDC 1.0 DDC 2.0
Connect force
 6 bar equal pressure

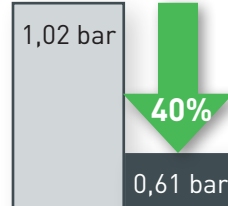


DDC 1.0 DDC 2.0
Connect force
 6 bar tank pressure

DDC 3 inch

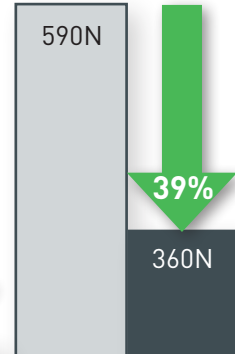


Flow capacity

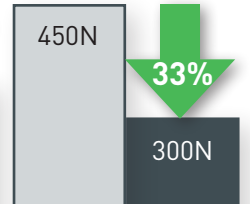


DDC 1.0 DDC 2.0
Pressure drop
 flow rate 2500 l/min

Connect force



DDC 1.0 DDC 2.0
Connect force
 6 bar equal pressure



DDC 1.0 DDC 2.0
Connect force
 6 bar tank pressure

INTEGRATED PRODUCT DESIGN FOR SUPREME PERFORMANCE AND HANDLING

With experience of more than one million couplings delivered over 25 years, MannTek decided to set a new standard for DDC couplings. The Original Design 1.0 is known for it's highly competitive performance and is well-regarded worldwide. The new Design 2.0 is a careful evolutionary redesign, based on results from field studies and user tests.

With Design 2.0 both flow capacity and user ergonomics have been improved to a new state of the art level. The flow capacity is increased above 40% through design optimisation, and has been verified in a number of incremental flow rate simulations.

The ergonomics are improved on a number of points:

- Clear visual indicators for easier alignment
- Connect forces reduced up to 55%
- New handle design offers a more convenient, balanced and effective handling, beside a more compact rotation volume
- Design 2.0 offers more optional feature combinations like sensors, locking device, stop before disconnect etc.





MannTek

Phone +46 501 39 32 00
E-mail sales@manntek.se
Website www.manntek.se
Address Mann Teknik AB
 Strandvägen 16
 S-542 39 Mariestad
 Sweden

Sales office

Argentina
 China
 Germany
 Great Britain
 Netherlands
 Sweden
 United Arab Emirates
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