# TODO-MATIC® COUPLINGS







## FOR SAFE FLUID HANDLING

We are proud to present the TODO-MATIC® range of Dry-Break® couplings. More than 30 years of expertise has gone into their design and manufacture.

In sizes from 1" to 6" and a wide range of material options, TODO-MATIC® Dry-Break® couplings offer advanced fluid handling solutions for a diverse range of industries.

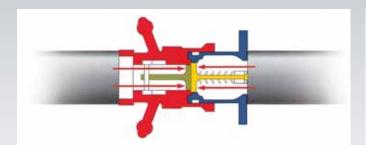
Major offshore exploration, chemical, pharmaceutical and petro chemical companies rely on TODO-MATIC® couplings to safely transfer their most aggressive or valuable products.

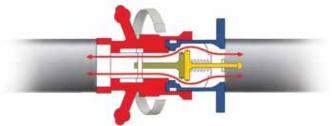
Designed for safe and easy use with minimum operator intervention. TODO-MATIC® couplings offer an unbeatable combination of technical, safety and performance features.



#### How it works

Turning the hose unit 15° clockwise locks the units together. The valves are still closed and are not opened until a further rotation of 90° has been performed and then the product flow is guaranteed. To close the valve and to unlock the units, reverse the procedure.





# **Features**

- Valves open and close automatically on connection and disconnection.
- Simple single action operation, no levers or switches to operate.
- Valves are guaranteed closed prior to disconnection.
- Minimal residual loss on disconnection (e.g. maximum 0.35cc for 2" DN50).
- Will connect and disconnect under pressure and flow where necessary.
- Extremely reliable, very few moving parts.
- Robust construction, no external operational components.
- Available with selectivity system to prevent cross contamination.
- Reduces spillages to virtually zero.
- Dramatically improves both operational and fugitive emission performance.
- Reduces the possibility of human error in transfer operations.
- Improves efficiency.

# **Technical Details**

Sizes: 1" (2.5cm) to 6" (15.2cm).

Materials: Aluminium, gunmetal and stainless steel 316L, other on

request.

Seals: FKM (Viton®), NBR (Nitrile), EPDM, Chemraz®, Kalrez®.

Other materials on request.

Working pressure: 10 bar - 25 bar

Test pressure: Working pressure +50%.

Safety factor: 5:1.

End connections: BSP- and NPT-threads. DIN-, ASA-, TW- and TTMA

flanges (available for both tank and hose units). Other

threads and flanges on request.

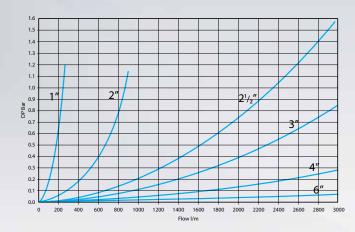
Compatibility: NATO STANAG 3756.

Viton® and Kalrez® are registered trademarks of DuPont Performance Elastomers.

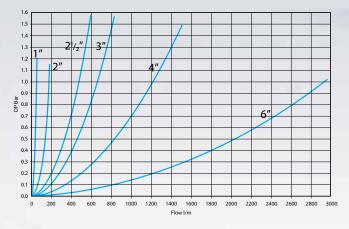
Chemraz® is a registered trademark of Green-Tweed.

#### Flow capacity

TODO-MATIC® DRY-BREAK® couplings offer high flow capacity. Media: water. Temperature: 20°C (68°F).



Pressure drop for 1"(2.5cm) to 6" (15.2cm), scale 0-3000 l/min.



Pressure drop for 1"(2.5cm) to 6" (15.2cm), scale 0-15000 l/min.

# **Certificates / Approvals**

- Vd-TÜV type approval, mark TÜ.AGG.162-93 towards ADR, RID, IMDG and VDI-rules 2440, part 3.3.1.3.
- CE-marked, European directives 97/23/EC (PED) and 94/9/EC (ATEX) compliant.
- Manufactured under EN ISO 9001:2008.
- Certified towards ISO 14001:2004.
- Manufactured towards EN 13480 and EN 13445.
- TUV Approval to EN 14432:2006 for Tank Units and Pressure Tight Caps.

The above refer to product manufactured at the Margate, U.K. plant.

# SIZE RANGE, TODO-MATIC® DRY-BREAK®





TODO-MATIC® Dry-Break® couplings in 1" size are designed for smaller bore applications where compact dimensions are required. One handed operation, high flow rate and minimal release on disconnection make TODO-MATIC® perfect for transferring high value or sensitive medias with confidence. The addition of selectivity to prevent product cross contamination expands the operational possibilities in manifold exchange applications.



# 2" TODO-MATIC® Dry-Break® (DN40 - DN50, Ø70 mm)

Our 2" coupling size probably covers the most diverse selection of applications in the TODO-MATIC® family. Available in a range of materials and connection configurations, TODO-MATIC® 2" is designed for rapid and safe transfers. Offshore chemical dosing, pharmaceutical feedstock and aggressive chemical vapour transfer are just some of the challenging applications TODO-MATIC® couplings see on a daily basis.



# 2½" TODO-MATIC® Dry-Break® (DN65 - DN80, Ø105 mm)

The  $2\frac{1}{2}$ " TODO-MATIC® coupling is generally used in road tanker and aviation applications transferring a variety of liquids and vapours. Just like all TODO-MATIC® couplings, the  $2\frac{1}{2}$ " is available in a full range of materials to offer compatibility with most applications. A strong integral swivel, ergonomic design and rugged construction ensure TODO-MATIC® couplings are equipped for the real world.



# 3" TODO-MATIC® Dry-Break® (DN80, Ø119 mm)

A true 3" coupling, similar in size to the  $2\frac{1}{2}$ " but with greater flow. Typically used for road and rail tank loading / discharge, in plant chemical transfers etc. Tough construction, ease of handling, no spillage and high flow made this coupling form the natural choice for N.A.T.O refuelling standardisation.

# SIZE RANGE, TODO-MATIC® DRY-BREAK®



# 4" TODO-MATIC® Dry-Break® (DN100, Ø164 mm)

Without exception, the most compact, lightweight, high flow 4" self sealing coupling system available. Used extensively for offshore ship to rig transfers of fuels and drinking water, aviation fuel bunkering, rail tank loading / discharge, chemicals etc.

Rapid, positive connection and disconnection make TODO-MATIC® the standard for barge to ferry re-fuelling and multiple rail tank discharge.



# Hose unit with flange

All sizes of the hose unit are also available with flange.



# 6" TODO-MATIC® Dry-Break® (DN150, Ø238 mm)

The same features and method of operation as the rest of the range make 6" TODO-MATIC® the ideal ship / barge to shore connection.

Much faster and safer than any flange coupling means not only environmental standards compliance but real turn around time savings. Full marine construction with rotating lifting loop as standard.

As with all TODO-MATIC® couplings, the 6" is equally suitable for flexible hose or loading arm applications.

# **APPLICATIONS**

- Road / Rail tanker loading / discharge
- ISO retrofit & new build
- IBC containers
- Offshore rig supply
- Pharmaceutical processing
- Vapour Recovery
- Ship to shore / ship / rig transfer
- Ship manifold exchange
- Bulk loading / discharge
- Paints & inks
- Marine refuelling
- Bitumen transfer
- Brewery
- Food feedstock
- Hazardous waste transfer
- Aviation bunkering
- Exchange manifolds
- Blending pits
- Rail locomotive refuelling
- Tank top / bottom loading

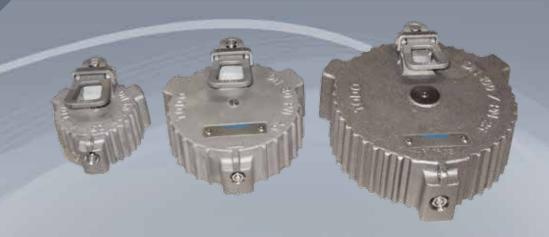








# **SPECIALS / ACCESSORIES**



# **Safety Pressure Tight Cap**

Designed to enhance operator safety & containment security in chemical & gas transport.

Pressure indicator, depressurisation, customs / tamper seal feature, automatic locking, certified closure.

Manually lockable (with padlock). WP: 25 bar. Sizes: 2" (5.1cm) - 4" (10.1cm).



# **Dust Plugs and Dust Caps**

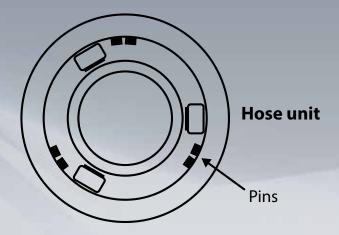
Available in stainless steel, brass / gunmetal and aluminium. There are also versions available in rubber.

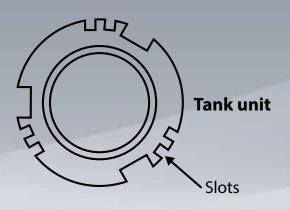
Dust plugs / caps should be used to prevent ingress of dirt or water. Sizes: 1" (2.5cm) - 6" (15.2cm).

# **Selectivity**

To avoid cross contamination by connecting a hose unit to the wrong tank unit.

Each unit has a number of selective positions, designated by a coded part number according to the coupling size.





# **SPECIALS / ACCESSORIES**





# Pressure relief valve, for tank unit

Dissipates trapped fluid pressure into hose unit without spillage, to allow easy connection.

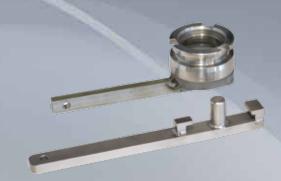
### TODO 4WD

Developed specially for the use of aggressive chemicals and uses a new patented valve mechanism. Easier to connect / disconnect.

Less seal wear due to the use of advanced seating and coating technologies. Less total loss of fluid on disconnection. WP: 25 bar.

# **SPECIALS / ACCESSORIES**





Tools for draining of hose and tank units

# TODO-MATIC® for extremely corrosive media

Available in Hastelloy, other materials on request.





# Parking device

For safe and convenient storing of hose units.



The switch indicates if the hose unit is fully connected to a standard tank unit. Can be used to start pumps, activation of brakes on road tankers, etc.



1" foldable handle

# SPECIALS / ACCESSORIES



2" foldable handle mounted on the swivel



2" round handle



2½"-3" straight handle



4" round handle

#### **MANUFACTURING FACILITIES**

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