

BLUEWATER RUBBER AND GASKET HOUMA 1131 Barrow St. Houma, LA 70360 Phone: 985.851.2400 Toll Free: 800.521.4673 www.BluewaterRubber.com



TODO® PRODUCTS OVERVIEW

Setting the industry standard for over 40 years

THE NUMBER 1 CHOICE FOR SAFE LIQUID TRANSFER

TODO® is the market leader in the DRY-BREAK® industry, trusted by clients around the globe. Our products are designed to handle a huge range of oils, gases and hazardous chemicals. For over four decades TODO® valves have been used in the most challenging conditions.

TODO-MATIC®

REDUCED SPILLAGE, INCREASED PROFIT

TODO-MATIC[®] couplers are extremely reliable, with very few moving parts, and require little operator intervention which reduces the risk of human error. The TODO-MATIC[®] range's minimal residual loss of product on disconnection and spillage is virtually zero, assuring site safety. Less product leakage also means more product delivered to your customers, resulting in higher profit margins.





BLUEWATER RUBBER AND GASKET HOUMA



DN20 DN32 Ø56 mm HOW TWORKS





- Dedicated for small bore applications
- One-handed operation
- High flow rate
- Minimal release on disconnection
- Additional option of selectivity to prevent product cross-contamination

BLUEWATER RUBBER AND GASKET HOUMA







- Suitable for various applications
- Available in a range of materials and configurations
- Provides rapid, safe transfer
- Additional option of selectivity to prevent product cross-contamination

01 04

> HOUMA 1131 Barrow St.

BLUEWATER RUBBER AND GASKET





BLUEWATER RUBBER AND GASKET

HOUMA

1131 Barrow St. Houma, LA 70360 Phone: 985.851.2400 Toll Free: 800.521.4673 www.BluewaterRubber.com

TODO

- Ideal for road tanker and aviation applications
- Suitable for a variety of liquids and vapours
- Strong integral swivel
- Ergonomic design
- Rugged construction
- Additional option of selectivity to prevent product cross-contamination

01 **05**







BLUEWATER RUBBER AND GASKET

HOUMA

- Typically used for rail and road loading/discharge
- Tough construction
- Ergonomic design
- High flow rate
- Zero spillage
- The natural choice for NATO refuelling standardisation
- Additional option of selectivity to prevent product cross-contamination



HOW IT WORKS





TODO

- Rapid connection and disconnection
- Applications include:
- off-shore ship-to-rig transfer of fuels and drinking water
- aviation fuel bunkering
- rail tank loading/discharge
- chemical transfer
- Additional option of selectivity to prevent product cross-contamination

BLUEWATER RUBBER AND GASKET HOUMA

6" TODO-MATIC® DRY-BREAK®



HOW IT WORKS

- Ideal for ship- or barge-to-shore connection
- Significantly faster transfer than any flange coupling
- Environmental standards compliant
- Provides real turnaround time savings
- Rotating lifting loop as standard
- Additional option of selectivity to prevent product cross-contamination



RUBBER & GASKET CO.

Est.

TODO

1979

BLUEWATER RUBBER AND GASKET HOUMA

Sizes: 1"-6"



TODO

- Prevent ingress of dirt and water
- Available in:
- Stainless steel
- Brass/gunmetal
- Aluminium
- Rubber

BLUEWATER RUBBER AND GASKET HOUMA

TODO-GAS

SAFE TRANSFER OF LPG IN BOTH LIQUID AND VAPOUR PHASES

Improve profit margins, environmental credentials and operator safety when transporting liquid petroleum gas. Specifically designed for the safe transfer of LPG, TODO-GAS couplings are composed of materials ideal for the unique properties of LPG and terminal handling properties. TODO-GAS 1" and 2" products have dimensionally different connection geometry to restrict product cross-contamination. Their unrivalled technology also significantly reduces emissions and removes the risk of operator freeze burns. TODO



BLUEWATER RUBBER AND GASKET HOUMA

DN19 DN32 Ø56 mm

HOW IT WORKS





TODO

- Suitable for a range of LPG applications
- Heavy duty autogas vehicle refuelling
- Advanced vapour recovery systems
- Easy to connect and disconnect
- Single-handed operation
- Ultra-low release on disconnect: 0.15cc per disconnection
- Suitable for indoor fuelling
- Handles up to 200 litres/minute (52 USG/MIN)
- Minimal pressure drop

BLUEWATER RUBBER AND GASKET HOUMA

DN40 DN50 Ø71 mm HOW TWORKS



TODO

- Ideal for bobtails or immediate bulk delivery trucks
- Rugged construction
- Suitable for frequent use
- Can cope with almost any loading equipment configuration
- Ultra low release on disconnect: 0.35cc per disconnection

BLUEWATER RUBBER AND GASKET HOUMA

3" TODO-GAS DN80



TODO

Ø119 mm

HOW IT WORKS

- Unrivalled suitability for larger or high flow rate applications
- Typically used for rail tank loading and discharge
- Handles flows of up to 2,500 litres/minute (658 USG/MIN)
- Two-handle operation
- Robust integral swivel
- Designed to withstand regular use at terminal







BLUEWATER RUBBER AND GASKET

HOUMA

- Prevent ingress of dirt or water
- Materials:
- 1" and 2" sizes: rubber
- 3" size: stainless steel, brass/gunmetal and aluminium



PRESSURE RELIEF VALVE FOR TANK UNIT

 Highly recommended in applications where back-pressure build-up is common. Enables a small amount of pressure to be released in the hose unit to ease coupling motion





PARKING DEVICE

 Provides a position for safe storage of hose units when not in use



LONG DOUBLE HANDLE 2"

• Enables easier coupling motion, especially in applications where space is restricted at the connection point

BLUEWATER RUBBER AND GASKET HOUMA

NGX SERIES

REDUCED SPILLAGE WHEN LOADING OR UNLOADING HAZARDOUS LIQUIDS

The NGX series focuses on preventing damage to the loading system while ensuring minimal product loss. The range combines flow optimisation with the latest innovations to bring you an industry-leading range of Safety Break-Aways. In the event of a drive/pull away incident, break pins are subjected to breaking force and eventually shear, causing the two halves of the Break-Away to separate. The two halves then rapidly close off, preventing liquid/gas from escaping the broken line. TODO



BLUEWATER RUBBER AND GASKET HOUMA





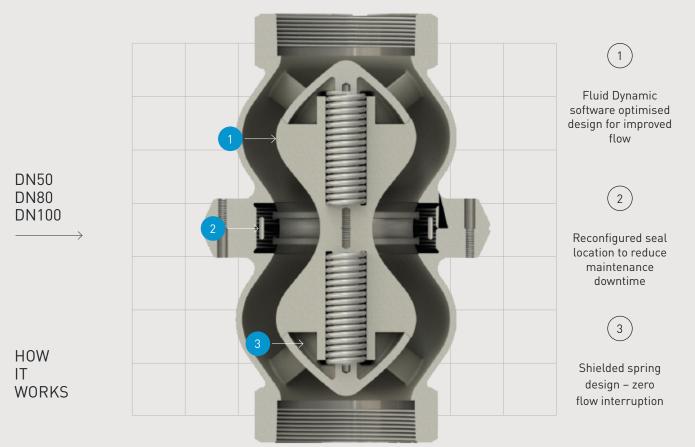
Est. 1979 RUBBER & GASKET CO.

- Extremely quick closing time
- Minimum loss of product
- Suitable for a wide range of applications

BLUEWATER RUBBER AND GASKET HOUMA

1979

BLUEWATER



- Faster loading/unloading due to optimised flow rates
- Simple to retrofit onto loading arms
- Easier to handle when loading/unloading
- Reduced maintenance due to internal redesign and new seal placement
- Easy to reset on-site, saving time and money



Est.

BLUEWATER RUBBER AND GASKET HOUMA

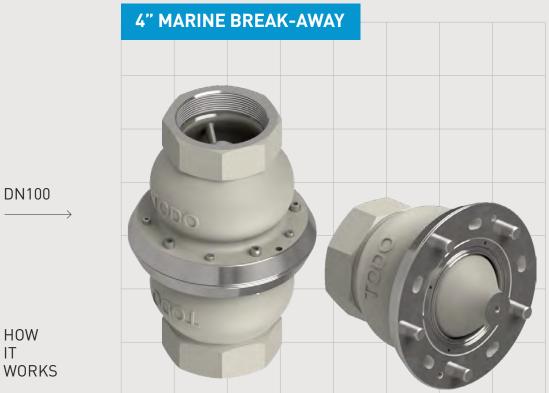


MARINE BREAK-AWAY

ELIMINATING SPILLAGE DUE TO SHIP AND/OR BARGE MOVEMENT

The TODO® Marine Break-Away Coupling has been designed for loading and unloading hazardous liquids on ships and/or barges. The Marine version of TODO®'s tried and tested Standard Break-Away Coupling has a more robust design and has been engineered to withstand harsh marine conditions. If excessive load is detected, the coupler closes the valves and then allows disconnection.

BLUEWATER RUBBER AND GASKET HOUMA





IT

- High flow/low pressure drop
- Designed to resist axial force so that disconnect only occurs when subjected to straight pull forces
- Operates independently of shut-off safety systems and does not require an external power source
- Easy to re-set on site









TODO® SAFETY PRESSURE TIGHTCAP (PTC)

DESIGNED WITH BUSINESS NEEDS IN MIND

Created in close collaboration with leading gas and oil companies, the TODO® Safety Pressure Tight Cap is designed to assure containment security and operational safety. It is equipped with sensors and failsafes to ensure operator safety and help avoid losses. No other existing closure technology comes close.

BLUEWATER RUBBER AND GASKET HOUMA





DN50 DN80 DN100

- Pressure indicator alerts the operator to pressure above 1.0 bar behind the cap and possible failure of upstream closure
- Allows for automatic depressurisation
- Reduces static pressure upstream of the cap
- Customs / tamper seal feature
- Suitable for use with all commonly used wire and plastic custom seals



AVIATION COUPLINGS

THE ECONOMICAL ALTERNATIVE FOR AVIATION FUELLING

TODO® Aviation couplings represent real money savings as well as improved safety features and exceptional ease of use to organisations involved in the aviation industry. Their unrivalled reliability and robust design mean lower maintenance and replacement costs. Simple operation reduces human error and improves turnover time. The range includes the TODO®-45 coupling – the first economic alternative to the ISO 45 under wing hose couplers – and the TODO-MATIC® aviation hydrant connection. TODO



BLUEWATER RUBBER AND GASKET HOUMA





• Automatic valve opening on connection and disconnection

- Simple single action operation, no levers or switches
- Guaranteed valve closure prior to disconnection
- Minimal residual loss on disconnection
- Will connect and disconnect under pressure and flow where necessary
- Robust construction: no external operational components

BLUEWATER RUBBER AND GASKET HOUMA

TODO® FUEL NOZZLES

DURABLE DESIGN FOR LONG-TERM PERFORMANCE

TODO[®] fuel nozzles are specifically designed to withstand the pressure of high volume delivery from tanker to the loading station in complete safety. High flow support means faster turnaround times, increasing your profit margins. Operator safety is always key, therefore with less product lost on disconnection and through human error, TODO[®] fuel nozzles ensure our customers are in safe hands. TODO



BLUEWATER RUBBER AND GASKET HOUMA





- Available with or without anti-drain valves
- Automatic handle locking when in closed position
- Optional threaded sight glass
- Ballsealings in PTFE (Teflon®) as standard
- TODO-SNAP log nut equipped on request
- Aluminium alloy components
- Working pressure: PN 10
- Safety factor: 1:5

BLUEWATER RUBBER AND GASKET HOUMA

BALL VALVES

IMPROVED PERFORMANCE, LARGER SAVINGS

TODO®'s lightweight ball valves offer real cash savings to the road and tanker industry. Designed to work specifically in any context which involves regular compartment switching, the ball valves are also used in fixed plant and mobile refuelling applications. The unrivalled sandwich design ensures that quick, easy valve changeover is permitted with a PTFE seal preventing leakage – all of which helps to save businesses time and money. TODO



BLUEWATER RUBBER AND GASKET HOUMA



2"DN50 3"DN80 4"DN100 • Valual of the second of the second



TODO

Ideal for use in road tankers and a variety of plant applications to permit flow in one direction only, TODO[®] one way ball valves are available with pneumatic actuation and with a wide selection of end connectors. Available products:

- 4" ball valve with actuator
- 3" ball valve
- 2" ball valve

BLUEWATER RUBBER AND GASKET HOUMA



TODO

Offering all the benefits of one way ball valves, the two way ball valves range is ideal for use as a compartment or tank switching valve, to control the direction of flow between either of two outlets. Available products:

- 4" ball valve with actuator
- 3" ball valve
- 2" ball valve

BLUEWATER RUBBER AND GASKET HOUMA

TODO® SWIVEL

IMPROVING MANOEUVRABILITY TO AVOID HOSE FAILURE

One of the biggest causes of premature hose failure – and therefore maintenance costs and wasted time – is torque stress imparted onto the assembly hose by permitting free hose movement. The leading technology in the TODO® Swivel avoids this stress, allowing the hose to relax to its natural rest position, whilst permitting its free movement. TODO



BLUEWATER RUBBER AND GASKET HOUMA

09 31

0.75" - 4"



TODO

- Simple design
- Low maintenance
- High reliability
- Very compact
- High flow rate / low pressure drop
- Stainless steel bearings and single o-ring seal

BLUEWATER RUBBER AND GASKET HOUMA

CERTIFICATES AND STANDARDS

Designed for demanding applications, TODO-MATIC[®] couplings carry the highest level of certifications and approvals available worldwide:

- VdTÜV under test approval mark TÜ.AGG.162-93 towards ADR, RID and IMDG
- European directives
- 2014/68/EU (PED) and 2014/34/EU (ATEX) compliance
- E4 Automotive liquefied petroleum gas components other than containers.

Additionally, all TODO[®] products meet the highest international for safety and have the following attestations:

- TDT approval
- mark TDT-UW-30/09 (swivels) and TDT-UQ-30/09 (fuel nozzles)
- ADR/RID in Poland
- EN ISO 9001:2000 (ball valves) and EN ISO 9001: 2015 (swivels and fuel nozzles) manufacturing standards
- ISO 14001:2015

TODO is pleased to announce that TODO-MATIC

4" (DN100) Hose and Tank Units are now approved by the American Bureau of Shipping (ABS) for use on offshore applications



"WHEN I LOOK TO BUY A DRY-BREAK® VALVE FOR MY PROJECT – I ASK FOR A TODO®"



BLUEWATER RUBBER AND GASKET HOUMA

1131 Barrow St. Houma, LA 70360 Phone: 985.851.2400 Toll Free: 800.521.4673 www.BluewaterRubber.com

TODO

BLUEWATER RUBBER AND GASKET

BELLE CHASSE 1802-A Engineers Rd. Belle Chasse, LA 70037 Phone: 504.392.3001 Toll Free: 866.392.3001 www.BluewaterRubber.com

MANUFACTURING FACILITIES

Westwood Industrial Estate,

Phone +44 (0)1843 221521

Westwood Industrial Estate,

Phone +44 (0)1843 221521

Fax +44 (0)1843 295444

Emco Wheaton GmbH

Phone +49 6422 84-0

Emco Wheaton USA, Inc.

9111 Jackrabbit Road.

Phone +1 281 856-1300

Fax +1 281 856-1325

Fax +49 6422 5100

Emcostraße 2-4,

Fax +44 (0)1843 295444

TODO

Kent,

Margate,

CT9 4JR UK

SALES OFFICE

Emco Wheaton

Channel Road,

Margate,

CT9 4JR UK

Kent.

35274.

Kirchhain,

Germany

Houston,

Texas,

77095

USA

Channel Road,

BLUEWATER RUBBER AND GASKET GALLIANO

17650 Hwy. 3235 Galliano, LA 70354 Phone: 985.632.4200 Toll Free: 800.521.4673 www.BluewaterRubber.com



Emco Wheaton France S.A.S.

Division Produits Industriels 70, Avenue Albert Einstein, Zone du Château d'Eau B.P. 50061 - F77551 Moissy-Cramayel Cedex, France, Phone +33 1 64 13 89 49 Fax +33 1 64 13 37 08

Emco Wheaton GmbH

Hofherr-Schrantz-Gasse 4, 1210 Wien - Österreich, Austria Phone +43 1 270 11 99 - 35 Fax +43 1 270 11 99 - 11

Emco Wheaton GmbH

Presnenskaya emb. 10 Block C – Embankmemt Tower – of. 526 123317 Moscow Russia Phone +7 495 9677612 Fax +7 495 9677600

Emco Wheaton Asia Pacific

21-5F IOI Business Park, Bandar Puchong Jaya, Puchong, 47170, Selangor, Malaysia Phone +603 8075 7500 Fax +603 8075 4100

Gardner Denver International Ltd

PO Box 30804 Diraz, Manama Bahrain Phone +973 17813187 Fax +973 17813186

BLUEWATER RUBBER AND GASKET

BATON ROUGE 6629 Pecue Lane Baton Rouge, LA 70817 Phone: 225.570.4900 Toll Free: 800.521.4673 www.BluewaterRubber.com

Emco Wheaton

Av. Mercedes Benz, 700 - Distrito Industrial-Campinas 13054-750, SP Brazil Phone +55 19 3765 8303 Mobile +55 19 98168 8516

Gardner Denver Belgium N.V.

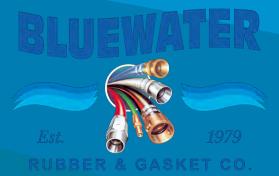
Luithagen 7A – Haven 200 B-2030 Antwerpen, Belgium, Phone +32 (0)3 541 50 40

Gardner Denver Nederland B.V.

Barwoutswaarder 3 3449HE Woerden Postbus 299 3440AG Woerden Phone +31 (0)348 410150

Gardner Denver Machinery

(Shanghai) Co., Ltd. No. 200 Xin Tuan Rd Qingpu Industrial Zone Shanghai P.R. China Phone +86 (0) 21 3127 6266 Fax +86 (0) 21 31276206



www.emcowheaton.com/todo-products

in www.linkedin.com/company/TODOcouplers