

Supplier:

Ultra-Pure Diesel Exhaust Fluid (DEF) by Brenntag

(was CF Industries / TerraCair)

Vendor Information: AUS32 Diesel Exhaust Fluid designed to meet the requirements of SCR engines. Ultra-purified, Eco-friendly and fuel efficient. DEF will be used by almost all diesel powered vehicles (including Hino Trucks) utilizing Selective Catalytic Reduction (SCR) to meet the EPA2010 emissions regulations.

Hino Phone: (866) 372-4466
Hino Email: helpdesk@hino.com

Customer Service & Hino Fax: (662) 342-3939

Technical Support: Brenntag Support Phone: (610) 926-4151

Tote Return: Brenntag Phone: 800-558-8501 or 262-252-6221 - CSR Donna Plato

Tote Return: Totes may be returned at the time of delivery of the new tote.

Order Procedures: All orders are to be placed through the Hino Dealer Connect System (DCS).

Stock Orders: Enter orders in DCS Screen DC202 under Sales Type "S".

Emergency Orders: Emergency orders may be entered into DCS screen DC202 as a Sales Type "E" or "V". All emergency orders will be processed with a "rush" order. Freight and Handling fees will be identified on the Hino invoice.

Minimum Order
Quantity:

DEF Part #	Part Description	MOQ	DEF Part #	Part Description	MOQ
115376	DEF 2.5 GAL *SEE QFP QR GUIDE	80 PC	87305	DEF BULK 1 GAL (MOQ 300+GAL)	300 GAL
115376-B720	DEF 2.5 720 pcs GAL *SEE QFP QR GUIDE	720 PC	550060	DEF 330 GAL TOTE OPEN NO CORE	1 PC
115376-B1760	DEF 2.5 1760 pcs GAL *SEE QFP QR GUIDE	1760 PC	538915	DEF 330 GAL TOTE CLOSE SEAL W/CORE	1 PC
80301	DEF 2.5 GAL DS SKID (80PC)	80 PC	579972	DEF 330 GAL TOTE OPEN SEAL W/CORE	1 PC
114490	DEF 55 GAL (NO CORE) (4PC)	4 PC	17312	DEF MANIFOLD HOSE ASSEMBLY	1 PC
756368	DEF 55 GAL CLOSE W/CORE (4PC)	4 PC	661018	EMPTY TOTE	1 PC
523834	DEF 55 GAL OPEN W/CORE (4PC)	4 PC	365645	TOTE 4 HOLE W/FITTING/VALVE/TUBVENT	1 PC
217047	DEF 275 GAL TOTE CLOSE W/CORE	1 PC	32361	TOTE 4 HOLE W/CPP VENT ONLY	1 PC
931400	DEF 275 GAL TOTE OPEN W/CORE	1 PC	400102	TOTE 4 HOLE W/FITTING & CPP VENT	1 PC

*Items highlighted in yellow are now distributed by Kem Krest under the QFP brand, [click here](#) to see QFP QR Guide.

Jug Pallet Qty: 80 jugs per pallet. Trailer load discount available, contact your Hino Trucks District Parts Rep.

Freight Policy: Continental United States, Non-Continental United States (AK, HI, PR), all orders are shipped from the nearest distribution point depending on product and facing dealer location, unless otherwise specified. All orders will be shipped via the most efficient method LTL or TL carrier.

Free Freight Policy: All freight is prepaid on all items provided the order is a standard stock order.

Lead Time Policy: The standard lead time is 2-6 business days of order placement.

Part Number Pricing & Format: Pricing will be available on-line in the Hino DCS system. In addition, the prices will be forwarded to your service bureaus within two weeks of each pricing update.

Format: Standard Part numbers are directly carried over; no prefix or suffix.

Mega Fleet: All-Makes parts are not included in the Hino Mega Fleet pricing file but should be sold to Mega Fleet customers and filed as Miscellaneous Items in Corcentric when submitting for reimbursement.

Warranty: Please always view Suppliers warranty documents as warranty varies based on items/products/vehicle applications, etc... The information and recommendations herein are taken from data contained in independent, industry recognized references including but not limited to NIOSH, OSHA, CHRIS, the TFI Product Testing Program, and SAX's Dangerous Properties of Industrial Materials - ninth edition. Terra Industries Inc. makes no guarantee, warranty or other representation concerning this substance, since conditions of its use are beyond the control of the company. Terra Industries Inc. disclaims any liability for loss or damage incurred in connection with the use of this substance.

Returns: This product category is not returnable, however dealers will still earn a percentage based credit towards their annual parts return program.

Tote / Core Returns: Simply dial 800-558-8501 or 262-252-6221 & speak with CSR Donna Plato or ask for customer service & advise them you have empty a tote to return for deposit credit. Brenntag will coordinate return of tote and will advise Hino tote has been returned, credit from Hino will be given to the dealer for empty tote. **Totes may also be returned at the time of delivery of the new tote.**

Shipping Inspection and Damaged Product: All merchandise should be inspected upon arrival and carrier damage claims should be filed with the carrier immediately. We are not responsible for, nor are we in a position to make a claim after the freight carrier accepts the shipment from us. For excess stock returns, contact the Vendor directly.

Vendor Cross Reference Web Site: Contact Customer Service & Technical Support (above).

From Hino: Please see www.hinoscr.com for any further questions specific to DEF or model year 2011 technology. If you should have any parts related questions, please contact customer support at 1-866-372-HINO (1-866-372-4466) or e-mail us at helpdesk@hino.com.

Brenntag® DEF was used to support Hino Trucks testing and development fleet and was one of the first DEF brands to be officially certified by the American Petroleum Institute (API). This certification and label designation signifies that the product meets the purity and technical requirements (DIN 70070: 2005 and ISO 22241-1:2006) established by a variety of organizations including the International Standards Organization (ISO) and Engine Manufacturing Association (EMA). A product MSDS will also be included with this communication for your organizations record keeping.

Hino Trucks has documented information about DEF and SCR on our dedicated public web site: <http://www.hinoscr.com>. We highly recommend all dealer personnel familiarize themselves about the product and the technology on that site.

DEF prices are indexed to natural gas prices and may fluctuate frequently. Hino Trucks will monitor and update our DEF pricing according to the market index fluctuations.

FREQUENTLY ASKED QUESTIONS:

What is the shelf life of this DEF?

When stored between 10 and 90 degrees Fahrenheit, DEF shelf life is approximately 24 months. Most Intermediate Bulk Container's (IBC or Totes) and small packages in 2.5 gallon containers will not have climate control systems and should be stored in a controlled environment to ensure the best shelf life.

Can I return this DEF to the PDC?

No

What is the DEF tank capacity on a Hino Truck?

A Hino Truck will hold approximately 4.7 gallons of DEF.

Will Hino Trucks arrive from the factory filled with DEF?

Yes

Will Hino be marketing and selling DEF Pumps and handling equipment?

Pumps are available for purchase through various distributors that can be found online (such as www.discoverdef.com or www.finddef.com).

Please see www.hinoscr.com for any further questions specific to DEF or model year 2011 technology. If you should have any parts related questions, please contact customer support.

Thank you for your time and please do not hesitate to contact us with any questions! Your Hino Parts Team!!

Hino Trucks, A Toyota Group Company
41180 Bridge Street
Novi, Michigan 48375

(662)342-3939 - Hino PDC
helpdesk@hino.com - Parts Ordering Questions (PDC)

(248)699-9300 – Novi Hino Corp Office
(248)699-9310 – Novi Fax
hinoparts@hino.com – Parts E-Mail (Corporate)

THIS SIDE UP



TerraCair®

ULTRAPURE DIESEL EXHAUST FLUID

TERRACAIR® ULTRAPURE DIESEL EXHAUST FLUID FLUIDE POUR GAZ D'ÉCHAPPEMENT DIESEL FLUIDO PARA ESCAPE DE DIESEL



Eye and skin irritant.

Avoid contact with eyes and skin. Wear impervious gloves and safety glasses. Keep out of reach of children.

EYE: Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.

SKIN: Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.

INHALATION: If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention. If breathing has stopped, trained personnel should administer CPR.

INGESTION: Do not induce vomiting. Rinse mouth with water, then drink one or two glasses of water. Obtain medical attention. Never give anything by mouth if victim is unconscious, or is convulsing.

READ MATERIAL SAFETY DATA SHEET BEFORE USING PRODUCT

Irritant pour les yeux et la peau.

Éviter le contact avec les yeux et la peau. Porter des gants imperméables et des lunettes protectrices. Tenir hors de la portée des enfants.

YEUX: Rincer à grande eau froide. Enlever les verres de contact, si applicable, et continuer à rincer. Obtenir de l'attention médicale si l'irritation persiste.

PEAU: Rincer à grande eau froide. Laver à l'eau et au savon. Obtenir de l'attention médicale si l'irritation persiste.

INHALATION: En cas de symptômes, placer la victime à l'air frais. Si les symptômes persistent, obtenir de l'attention médicale. Si la victime ne respire pas du personnel qualifié devrait immédiatement commencer la réanimation cardio-pulmonaire.

INGESTION: Ne pas faire vomir. Rincer la bouche à grande eau, puis un ou deux verres d'eau. Obtenir un médecin. Ne jamais rien faire boire ou avaler à une victime inconsciente, ou si la victime a des convulsions.

LIRE LA FICHE SIGNALÉTIQUE AVANT D'UTILISER CE PRODUIT

Irritant para los ojos y la piel.

Evitar contacto con ojos y piel. Guantes del desgado y gafas de seguridad impermeables. Mantener fuera del alcance de los niños.

OJOS: Enjuagar con agua fría. Sacarse los lentes de contacto, si es el caso, y continuar enjuagando. Obtener asistencia médica si la irritación persiste.

PIEL: Enjuagar con abundante agua fría. Lavar con agua y jabón. Obtener asistencia médica si la irritación persiste.

INHALACIÓN: En caso de síntomas, mover a la víctima a un lugar con aire fresco. Si los síntomas persisten, obtener asistencia médica. Si la víctima no respira, personal capacitado debe comenzar inmediatamente la reanimación cardio-pulmonar.

INGESTIÓN: No provocar vómitos. Enjuagar la boca con agua fresca. Beber uno o dos vasos de agua. Obtener al médico. No dar nada a la víctima si la víctima está inconsciente, o si tiene convulsiones.

LEER LA HOJA DE DATOS DE SEGURIDAD ANTES DE UTILIZAR EL PRODUCTO



LOT# TEST

CONTAINER DEPOSIT
200.00

SEQ # 1

538915



DEF ISO 22241

TM

Health / Santé / Salud	1
Flammability / Inflamabilidad / Flamabilidad	0
Physical Hazard / Danger physique / Riesgos Físicos	0
Personal Protection / Protection individuelle / Protección personal	0

COMPOSITION / INFORMATION ON INGREDIENTS / COMPOSITION / RENSEIGNEMENTS SUR LES INGRÉDIENTS COMPOSICIÓN / INFORMACIÓN SOBRE LOS INGREDIENTES

Ingredient(s) / Ingrediente(s) / Ingrediente(s)	# CAS	Percent / Pourcentage / Porcentaje
Water / Eau / Agua	7732-18-5	67.5
Urea / Urée / Carbamida	57-13-6	32.5

FOR DIESEL SCR ENGINES / POUR LES MOTEURS DIESEL SCR /
PARA MOTORES DIESEL SCR

FORMALDEHYDE FREE / SANS FORMALDÉHYDE / LIBRE DE FORMALDEHÍDO

DO NOT MIX WITH DIESEL FUEL / NE PAS MÉLANGER AVEC LE CARBURANT
DIESEL / NO MEZCLAR CON COMBUSTIBLE DIESEL

IMPORTANT / IMPROTANTE: STORE BETWEEN / MAINTENIR ENTRE / MANTENER ENTRE
12°F (-11°C) & 86°F (30°C)



Terra Environmental Technologies Inc.
A Terra Industries Company

Distributed by:

BRENTAG

BRENTAG NORTHEAST, INC.
81 WEST HULLER LANE
READING, PA 19605
(610) 928-4151

330 US GAL (1249) L

1

Hino Trucks - Bulk DEF Fluid Dealer Information Packet

Thank you for choosing Brenntag for all of your Diesel Exhaust Fluid needs! This literature sheet details very valuable information pertaining to ordering Bulk DEF from Brenntag. Bulk DEF is distributed via route truck for the onsite replenishment of your existing DEF totes or DEF tanks. If you have any questions along the way, please feel free to contact our Customer Service Department at any time.

To Place Orders/Questions:

Brenntag Great Lakes Customer Service Dept:

Donna Plato – Customer Service Representative
Amber Hayward – Customer Service Manager
Customer Service DEF Email Address

Phone: 262.252.6221
Phone: 262.252.6419
GreatLakesDEFcsrs@brenntag.com

Technical/Sales Questions:

Chris Williams – OEM/National Accounts Manager Phone: 412.445.7676

Important information you will need to provide when placing orders:

- Hino Dealer Code
- Purchase Order Number
- Approximate Number of Gallons Needed (*300 Gallon MOQ is required*)
- Do you have a tote system on-site or do you need to order equipment?

NOTE: If equipment is already on site and was *NOT* purchased through Brenntag, please provide the following information:

- Are you currently using a DEF Manifold System or do you have single, refillable totes? Are they open or closed totes? Closed totes are equipped with a Micro Matic valve to prevent dirt and debris from entering the tote.
- Is there any DEF fluid in the existing tote? Who was the tote and product last purchased from?
- If open totes need to be refilled: Brenntag cannot warrant existing competitor's product in a tote. We can however refill the totes and after the third refill Brenntag can guarantee that the product meets our specifications.

Product Ordering Information:

FLUID

Product code # 87305 - Diesel Exhaust Fluid 32.5% in Bulk

EQUIPMENT

Hino/Brenntag recommend the Manifold System which is available in 2, 3, 4 & 5 tote arrangements. In order to dispense the fluid from the manifold system you must use a pump with a MicroMatic dispensing coupler.

Depending upon the size system you select, you will need some combination of the following equipment:

- Product Code #17312 - DEF Manifold Hose Assembly
- Product Code #365645 - 4 Hole Refillable Tote w/ Parker Hannifin Fitting, MicroMatic Valve w/ Down Tube, & CPP Vent
- Product Code #32361 - 4 Hole Refillable Tote w/ CPP Vent Only
- Product Code #400102 - 4 Hole Refillable Tote w/ Parker Hannifin Fitting & CPP Vent

NOTE: How each tote is equipped is dependent upon how many totes are in your manifold system. See attached sketches for all required equipment needed.

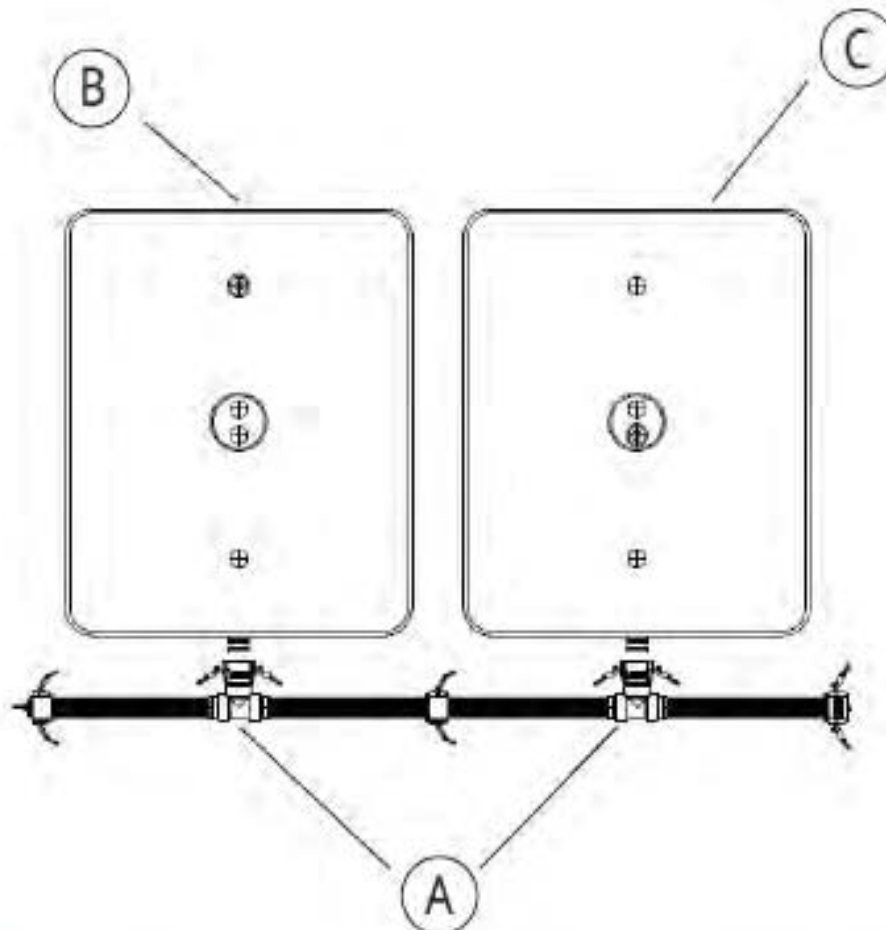


Two Tote Manifold System

The Two Tote Manifold System is comprised of the following items:

Item	Quantity	Product Code	Description
A	2	17312	DEF Manifold Hose Assembly
B	1	365645	4 Hole Refillable Tote w/ Parker Hannifin Fitting, MicroMatic Valve w/ Down Tube, & CPP Vent
C	1	32361	4 Hole Refillable Tote w/ CPP Vent Only

**Note: All 330 gallon DEF totes sold empty.*

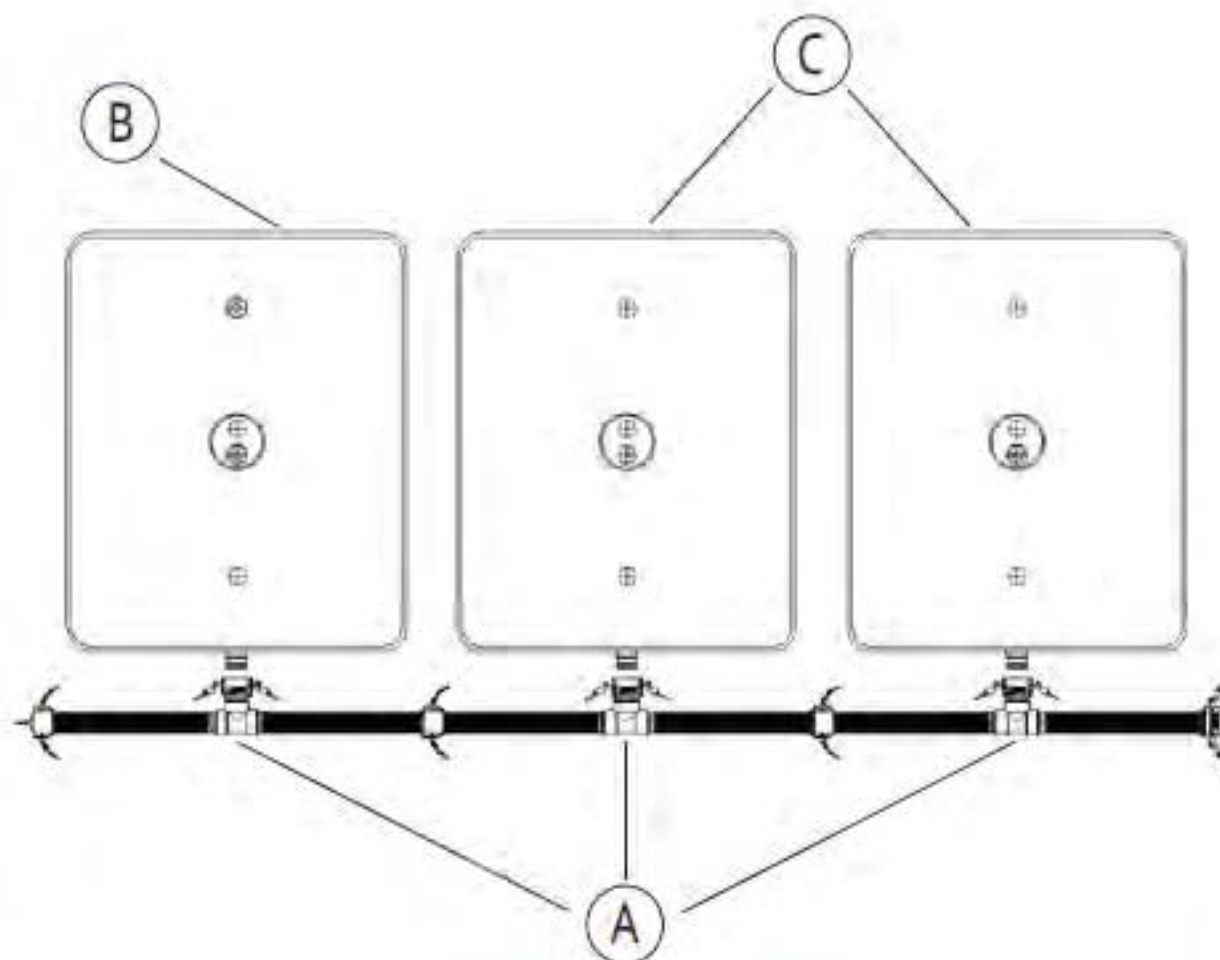


Three Tote Manifold System

The Three Tote Manifold System is comprised of the following items:

Item	Quantity	Product Code	Description
A	3	17312	DEF Manifold Hose Assembly
B	1	365645	4 Hole Refillable Tote w/ Parker Hannifin Fitting, MicroMatic Valve w/ Down Tube, & CPP Vent
C	2	32361	4 Hole Refillable Tote w/ CPP Vent Only

**Note: All 330 gallon DEF totes sold empty.*

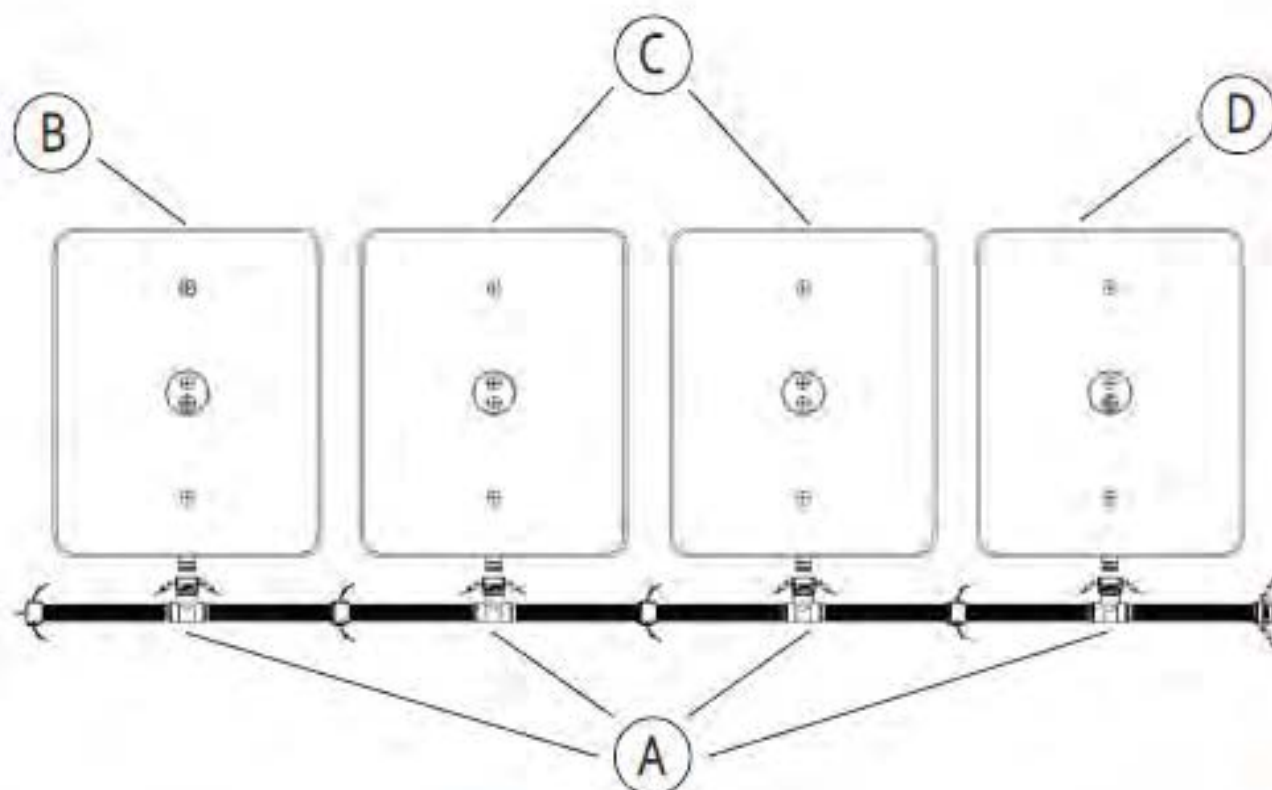


Four Tote Manifold System

The Four Tote Manifold System is comprised of the following items:

Item	Quantity	Product Code	Description
A	4	17312	DEF Manifold Hose Assembly
B	1	365645	4 Hole Refillable Tote w/ Parker Hannifin Fitting, MicroMatic Valve w/ Down Tube, & CPP Vent
C	2	32361	4 Hole Refillable Tote w/ CPP Vent Only
D	1	400102	4 Hole Refillable Tote w/ Parker Hannifin Fitting & CPP Vent

**Note: All 330 gallon DEF totes sold empty.*

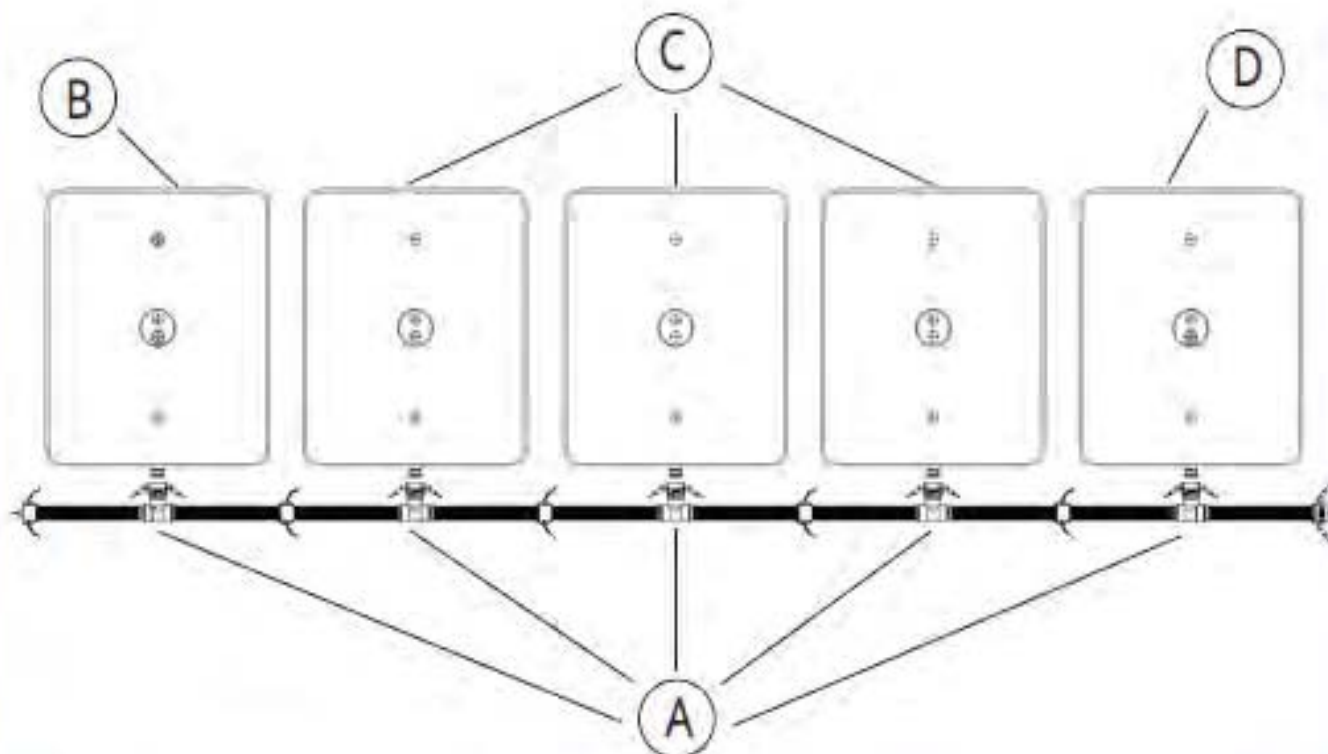


Five Tote Manifold System

The Five Tote Manifold System is comprised of the following items:

Item	Quantity	Product Code	Description
A	5	17312	DEF Manifold Hose Assembly
B	1	365645	4 Hole Refillable Tote w/ Parker Hannifin Fitting, MicroMatic Valve w/ Down Tube, & CPP Vent
C	3	32361	4 Hole Refillable Tote w/ CPP Vent Only
D	1	400102	4 Hole Refillable Tote w/ Parker Hannifin Fitting & CPP Vent

**Note: All 330 gallon DEF totes sold empty.*



DEF Drum & IBC Container Systems



Ensuring ISO 22241 **DEF Purity** Certification from Manufacturer to the End-User

3 Ways to Go, 3 Sizes & 1 Recommended Solution

To determine which packaging choice best suits your operating requirements you need to answer three simple questions:

1. What is the size of the fleet to be serviced, and how many truck miles driven?
2. What size package will deliver the greatest level of operating efficiency?
3. What is the most cost-effective distribution option, i.e. ONE-WAY, RETURNABLE or ON-SITE REFILLING?

One-Way

Returnable

On-Site Refilling

Distribution Options

ONE-WAY Container will ship with all openings sealed.

RETURNABLE Up-front deposit required, will reduce costs long-term.

ON-SITE REFILLING Up-front deposit required, will reduce costs & minimizes container management.

Container Size Options

55 GALLON DRUM supplies up to 11,000 miles*. Ideal for one or two trucks operations and can last several months.

275 GALLON IBC supplies up to 55,000 miles*. IBC (Tote) is delivered by truck and requires unloading by forklift.

330 GALLON IBC supplies up to 66,000 miles*. IBC (Tote) is delivered by truck and requires unloading by forklift.

NOTE: * Above calculations based at 3% usage at average fuel economy of 6 miles per gallon. Container volume/mileage usage may vary depending on vehicle dosage rate.

Sizes

55 Gal. Drum

275 Gal. IBC (Tote)

330 Gal. IBC (Tote)

CLOSED System options shown. In cold climates, containers should be stored indoors to prevent freezing.

Dispensing Solutions - OPEN & CLOSED SYSTEMS

Stinger / Drum Pump **OPEN** 55 / 275 / 330 Gal.

Probe / Dip Tube **OPEN** 55 Gal. / 275 & 330 Gal.

RSV Container Valve **CLOSED** 55 Gal. / 275 & 330 Gal.

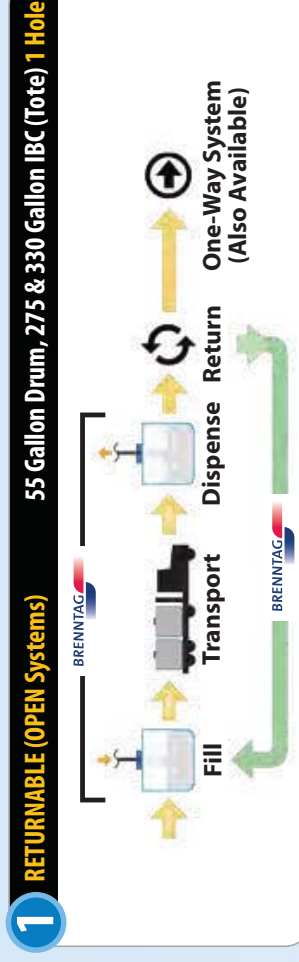
Ensure ISO 22241 DEF Purity

CLOSED, SEALED & SECURE

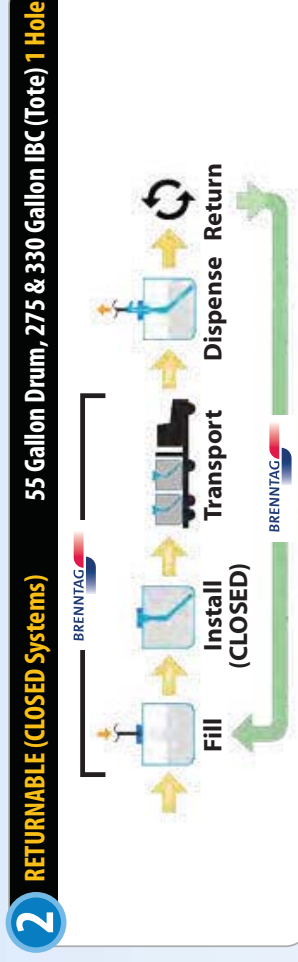
The Micro Matic CLOSED, SEALED & SECURE Container Valve Systems help maintain DEF purity from manufacturer to the end-user. Provides for tamper evidency and includes DEF Warranty.

You Have 3 Choices

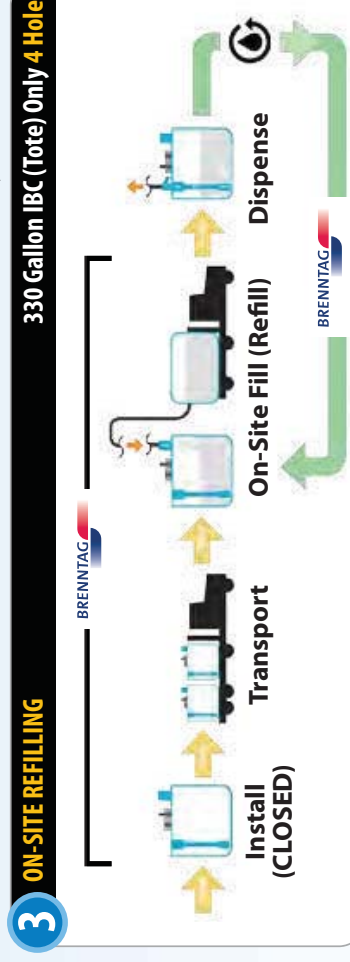
Fill - Transport - Dispense - Return (To BRENNTAG)



Fill - Install - Transport - Dispense - Return (To BRENNTAG)



Install - Transport - On-Site Fill - Dispense - On-Site Refill (BRENNTAG Mini-Bulk Delivery Truck)



CLOSED SYSTEMS

Recommended by BRENNTAG to support the required ISO 22241 DEF Purity Certification.
Includes DEF Product Warranty.

1 55 Gallon Drum

RETURNABLE To BRENNTAG

Refund / Return Policy

Refundable deposit upon return to Brenntag - Brenntag will externally inspect the container and RSV valve to ensure original tamper-evident seal is intact.

Prod No: 756368

Complete System Includes:

- A Micro Matic - Reusable SS Valve (RSV)
- B Container Valve (2.5 x 5" AB Thread) & Downtube
- C Tamper Evident Shipping Cap for RSV Container Valve
- D Tamper-Evident Wire Seal

Sold Separately - Typically Provided With Pump

DEF Coupler (RSV) - REQUIRED

Horizontal 3/4" BSP Female Thread #744-050

(or) 3/4" Barbed Outlet #744-048

2 275 & 330 Gallon IBC (Tote) 1 Hole

RETURNABLE To BRENNTAG

Refund / Return Policy

Refundable deposit upon return to Brenntag - Brenntag will externally inspect the container and RSV valve to ensure original tamper-evident seal is intact.

275 Prod No: 217047

330 Prod No: 538915

Complete System Includes:

- A 6" Center Cap (Single Hole)
- B Micro Matic - Reusable SS Valve (RSV), Container Valve (2.5 x 5" AB Thread) & Downtube
- C Tamper Evident Shipping Cap for RSV Container Valve
- D Tamper-Evident Wire Seal
- E Bottom Valve Outlet With Security Seal

Sold Separately - Typically Provided With Pump

DEF Coupler (RSV) - REQUIRED

Horizontal 3/4" BSP Female Thread #744-050

(or) 3/4" Barbed Outlet #744-048

3 330 Gallon IBC (Tote) 4 Hole

ON-SITE REFILLING BRENNTAG Mini-Bulk Delivery Truck

Reduce Cost & Down-time

This container valve system is equipped to provide ON-SITE REFILLING at your location. Designed to quickly connect to Brenntag mini-bulk delivery truck, this system will allow for high volume filling and optional level management.

Complete System Includes:

- A High Volume Dry-Lock Fill Nipple (2.5 x 5" AB Thread)
- B Dry-Lock Fill Dust Cap
- C Tamper-Evident Wire Seal
- D 6" Center Cap (Two Hole)
- E High Volume Fill Exhaust (NPS Thread)
- F Micro Matic - Reusable SS Valve (RSV), Container Valve (2.5 x 5" AB Thread) & Downtube
- G Tamper Evident Shipping Cap for RSV Container Valve

Sold Separately - Typically Provided With Pump

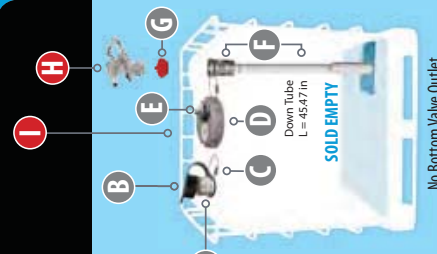
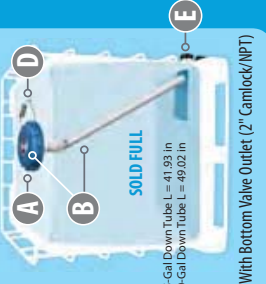
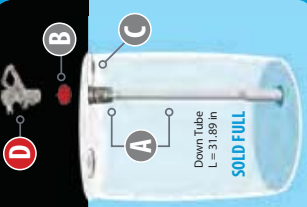
DEF Coupler (RSV) - REQUIRED

3/4" Barbed Outlet #744-048

(or) Horizontal 3/4" BSP Female Thread #744-050

DEF Level / Overfill - Optional (NPS Thread)

Prod No: 661018



Diesel Exhaust Fluid (DEF)

Container System Packaging Options

OPEN SYSTEMS

1 55 Gallon Drum

ONE-WAY (No Deposit & No Return)

No Deposit & No Return

Brenntag recommends using only Closed Systems.

Complete System Includes:

- Two Non-Vented Caps Only

The 55 Gallon Drum is shipped with all openings sealed. Extraction equipment is not installed or provided.

Prod No: 154969



2 275 & 330 Gallon IBC (Tote) 1 Hole

ONE-WAY (No Deposit & No Return)

No Deposit & No Return

Brenntag recommends using only Closed Systems.

Complete System Includes:

- One Vented Cap
- Bottom Valve Outlet (IBC) With Security Seal

The 275 / 330 Gallon IBC (Tote) is shipped with all openings sealed. Extraction equipment is not installed or provided.

275 Prod No: 226511

330 Prod No: 550060



With Bottom Valve Outlet (2" Camlock/NPT)

3 55 Gallon Drum, 275 & 330-Gallon IBC (Tote) 1 Hole

OPEN (Refundable Deposit Upon Return)

Refund / Return Policy

Refundable deposit upon return to Brenntag if undamaged. Brenntag recommends using only Closed Systems.

Complete System Includes:

- One Vented Cap (IBC)
- Bottom Valve Outlet (IBC) With Security Seal
- Two Non-Vented Caps Only (Drum)

The 55 Gallon Drum, 275 & 330 Gallon IBC (Totes) are shipped with all openings sealed. Extraction equipment is not installed or provided.

55 Prod No for CDV: 144038

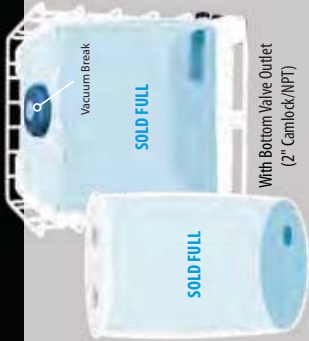
275 Prod No for CDV: 549736

330 Prod No for CDV: 375587

55 Prod No: 523834

275 Prod No: 931400

330 Prod No: 579972



With Bottom Valve Outlet (2" Camlock/NPT)

Diesel Exhaust Fluid (DEF)

FAQ's

1) What is Diesel Exhaust Fluid?

Diesel Exhaust Fluid or DEF is a high purity chemical solution containing 32.5% urea mixed with high purity water.

2) What is urea?

Urea is the active ingredient of Diesel Exhaust Fluid. Urea is created from synthetic ammonia and carbon dioxide when subjected to high heat and pressure and can be produced as a liquid or solid. Synthetic urea is used mainly in fertilizers but is used in plastics, animal feed, cleaning agents, and pharmaceutical applications.

3) What would I use Diesel Exhaust Fluid for?

Diesel engines are required to meet new emissions requirements beginning in 2010. Many diesel engine manufacturers have chosen a technology called Selective Catalytic Reduction (SCR) to meet these requirements. When added to the exhaust gases Diesel Exhaust Fluid reduces the NOx to the EPA required levels. If you purchase a car, truck, tractor or any diesel powered product with SCR technology it will require Diesel Exhaust Fluid.

4) Do I add this fluid to the diesel fuel?

No, vehicles manufactured with SCR technology are designed with a separate urea tank to hold Diesel Exhaust Fluid. The fluid is sprayed into the exhaust system.

5) Is Diesel Exhaust Fluid a hazardous material?

No, Diesel Exhaust Fluid is classified as a non-hazardous product per Department of Transportation (DOT).

6) How often will refueling of Diesel Exhaust Fluid be required?

The consumption rate of DEF is between 2-4% of diesel fuel consumption. For example, for every 100 gallons of diesel fuel consumed, between 2 and 4 gallons of Diesel Exhaust Fluid will be automatically injected into the exhaust system. A typical diesel truck could go about 200-300 miles on one gallon of Diesel Exhaust Fluid. The refueling interval will depend on the size of the DEF tank you have.

7) Does Diesel Exhaust Fluid have a shelf life?

Yes. The shelf life will depend on the temperature at which product is stored, average shelf life is 12+ months.

8) Is this product affected by temperature?

Yes, Diesel Exhaust Fluid will begin to crystallize at 12°F. It can also lose its potency if stored for prolonged periods over 86°F. Brenntag can assist you in developing storage solutions to ensure these conditions are avoided.

9) Will Diesel Exhaust Fluid be harmed if it freezes and then thaws?

No, DEF can freeze and thaw with no effect on the quality of the product. The urea and water will not separate or lose its strength.

10) How much does Diesel Exhaust Fluid cost?

Cost can depend on a variety of factors. Please contact your local sales representative.

11) What advantages are there to Diesel Exhaust Fluid and SCR technology?

In addition to reducing NOx emissions, the use of DEF and SCR technology will result in improved fuel mileage for most vehicles. The amount of improvement will vary based on your equipment.

12) How do I obtain Diesel Exhaust Fluid?

If you are truck driver, DEF will be available at many of the locations where you buy diesel fuel. If you have a fleet, Brenntag can provide Diesel Exhaust Fluid in a variety of package and dispensing solutions that meet your needs.

13) How will Diesel Exhaust Fluid be stored and dispensed?

DEF is stored in dedicated containers and dispensed through dedicated dispensing units.

14) How is the quality of Diesel Exhaust Fluid insured?

DEF is manufactured to strict ISO 22241, AUS 32 and DIN 70070 standards. These standards ensure proper manufacturing, testing and handling procedures. Diesel Exhaust Fluid should only be purchased from companies that provide proof that they follow these standards.



2010 BRENNTAG - NORTH AMERICA DEF CONTAINER SYSTEM PRODUCT DATA SHEET

Product Description	Prod Number	Item Description
OPEN SYSTEM CONTAINERS - ONE-WAY		
55 Gal. Drum	154969	ONE-WAY No Deposit & No Return
275 Gal. IBC (Tote)	226511	ONE-WAY No Deposit & No Return
330 Gal. IBC (Tote)	550060	ONE-WAY No Deposit & No Return
RECYCLE PROGRAM - FOR ONE-WAY CONTAINERS One-way units to be triple rinsed and customer to contact local recycler or call 1-800-774-6956. Pick-up call center requires eight (8) IBCs or twenty (20) drums or combination there-of for anytime pick-up.		
OPEN SYSTEM CONTAINERS - OPEN (Refundable Deposit Upon Return)		
55 Gal. Drum	523834	OPEN Refundable Deposit Upon Return
275 Gal. IBC (Tote)	931400	OPEN Refundable Deposit Upon Return
330 Gal. IBC (Tote)	579972	OPEN Refundable Deposit Upon Return
OPEN SYSTEM (Optional Parts)		
55 Gal. Drum	DQPRO202BUT	OPEN 2" American Buttress Poly Drum Insert
55 Gal. Drum	DQPRODT0985	OPEN Bent Dip Tube 35.5" Long
55 Gal. Drum	2408900	OPEN Drum Installation Torque Socket Tool
CLOSED SYSTEM CONTAINERS (Recommended by BRENNTAG)		
55 Gal. Drum	756368	RETURNABLE Includes Container Valve (RSV) & Down Tube (Length 31.89 in)
275 Gal. IBC (Tote)	217047	RETURNABLE (At BRENNTAG) Includes Container Valve (RSV) & Down Tube (Length 41.93 in)
330 Gal. IBC (Tote)	538915	RETURNABLE (At BRENNTAG) Includes Container Valve (RSV) & Down Tube (Length 49.02 in)
330 Gal. IBC (Tote)	173233	ON-SITE REFILLING (BRENNTAG Bulk Delivery Truck) Includes Container Valve (RSV) & Down Tube (Length 38.39 in)
CLOSED SYSTEMS DEF COUPLERS (Required)		
Drum / IBC (Tote) Coupler	BRENNTAG Order No: SBD DEFMMCDVHB	Horizontal Barbed Outlet DEF Coupler (RSV - Stainless Steel) With 3/4" Barbed Horizontal Outlet
Drum / IBC (Tote) Coupler	Micro Matic Order No: 744-048	Horizontal Threaded Outlet DEF Coupler (RSV - Stainless Steel) With 3/4" BSP Horizontal Female Thread Outlet
CLOSED SYSTEMS DEF LEVEL (Optional)		
IBC (Tote) Level	SBD SENSOR	DEF Liquid Level Indicator
IBC (Tote) Overfill	SBD SENSOR	DEF Liquid Level Indicator

With over 100 Brenntag locations across North America, DEF is never far away.



V19-00795-10611 Copyright © 2011 Micro Matic USA, Inc. All Rights Reserved.