

DIESEL EXHAUST FLUID (DEF)

Western has brought together a wide range of products and services to provide a complete range of solutions for handling, storing and testing DEF fluid. Please visit our website for additional background information along with specifications and technical data on Diesel Exhaust Fluid and best handling practices.

Diesel Exhaust Fluid (DEF) is a mixture of 32.5% high purity Urea diluted in de-ionized water for use in Selective Catalytic Reduction (SCR) systems. This solution is stored aboard diesel engine vehicles and injected into the exhaust systems' Selective Catalytic Reduction (SCR) system, initiating a chemical reaction converting the pollutant, nitrous oxide (NOx), into harmless nitrogen and water.

As of in January 2010, diesel trucks have DEF storage tanks on board ranging in size from 16 to 30 gallons. Additionally, in 2012, "off road" equipment powered by diesel engines will be supplied with SCR systems requiring DEF. Then, in 2014, all diesel engines greater than 75 HP will have SCR systems.

Western offers a wide range of DEF handling equipment that conform to ISO 22241 specifications. Both, "open" and "closed" systems are offered and are available in electric, air or hand operated versions. These systems are designed to fit 55 gallon drums, 275 and 330 gallon IBC Totes as well as bulk storage and transfer systems.

DRUM SYSTEMS FOR DIESEL EXHAUST FLUID (DEF)

- IS** P/N **51009C-S4A**
55 Gallon Drum Mobile Cart System with in-line meter is a complete transfer system, including:
- Submersed Impellor Drum Pump, 115 VAC
 - Electronic Digital Turbine Meter
 - SS Automatic Discharge Nozzle
 - 3/4" x 12' Discharge Hose
 - 2" Bung Adapter w/filtered air breather
 - Heavy Duty Mobile Cart, with 2,600 lb. load rating

- IS** P/N **51009C-S4M**
Same as 51009C-S4A above, except the automatic nozzle is replaced by a manual nozzle.



Note: Drum not included

DEF IBC TOTE SYSTEMS

- IS** P/N **970019-12A**
Economical pump system designed for use with 275 Gal. IBC Tote tanks, system includes:
- Two Speed, 115 VAC, DEF Pump w/filtered air vent and sealed bung adapter
 - 3/4" x 12' Discharge Hose
 - Electronic Digital Turbine Meter
 - SS Automatic Discharge Nozzle
 - Nozzle Holder, Drip Tray and Mounting Hardware

- IS** P/N **970019-12M**
Same as above, except the automatic nozzle is replaced with a manual nozzle.

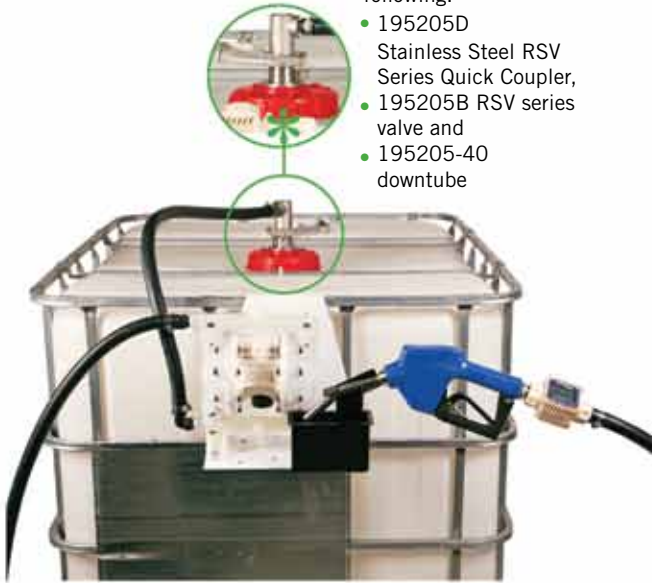


Note: IBC Tote Tank not included

CLOSED IBC TRANSFER SYSTEMS FOR DIESEL EXHAUST FLUID (DEF)

For Closed System Tote Kits always order **all three** of the following:

- 195205D Stainless Steel RSV Series Quick Coupler,
- 195205B RSV series valve and
- 195205-40 downtube



Note: IBC Tote Tank and coupler not included

- IS** P/N **970012-06A**
275 or 330 Gallon DEF IBC Tote system for use with closed system couplers and valves of your choice. This system is designed to be compatible with MicroMatic RSV and EPV series couplers as well as Colder Products "DrumQuick Pro" couplers. Order an appropriate coupler separately to match your system requirements. System includes:

 - 14 GPM Air Operated Double Diaphragm Pump
 - Electronic Digital Turbine Meter
 - Stainless Steel Automatic Discharge Nozzle
 - 3/4" x 12' Discharge & Pump Connection Hose
 - Convenient Pump Hanger Plate w/Nozzle Holder and Drip Cup

- IS** P/N **970012-06M**
Same as 970012-06A above, except the SS automatic nozzle is replaced by a manual nozzle

DEF HAND PUMP SYSTEMS



- IS** P/N **LP50-DEF-KIT**
GPI: POLY HAND PUMP FOR DEF Includes 8' DEF Hose w/Straight Poly Nozzle pipe



- IS** P/N **560101**
Buttress adapter allows use of NPT threaded pumps in plastic drums using buttress threads. (2" buttress male x 2" NPT female.)

CLOSED DRUM VALVES AND COUPLERS

- IS** P/N **195205B**
Closed stainless steel RSV series drum valve, 2" buttress



- IS** P/N **195205D**
Closed stainless steel RSV coupler, self venting with 3/4" hose barb connection used to pump DEF from the container.



SUCTION TUBES FOR RSV SERIES DRUM VALVES



- IS** P/N **195205-32**
Poly flex suction tube assembly for 55 gallon drums, RSV series

- IS** P/N **195205-40**
Poly flex suction tube assembly for 275 gallon totes, RSV series

ACCESSORIES FOR DIESEL EXHAUST FLUID (DEF)



IS P/N **906006-83**
Stainless Steel
Automatic Nozzle



IS P/N **100389M**
Manual Discharge Nozzle



IS DEF Hose
An EPDM hose with polyester braid reinforcement. This hose is processed without any zinc during manufacturing and has been peroxide cured for use with DEF. Contact Liquidynamics for additional hose lengths and fitting options.
P/N **81240-10** 3/4" x 10' DEF hose w/ male NPT fittings both ends
P/N **81240-12** 3/4" x 12' DEF hose w/ male NPT fittings both ends
P/N **81240-15** 3/4" x 15' DEF hose w/ male NPT fittings both ends
P/N **81240-20** 3/4" x 20' DEF hose w/ male NPT fittings both ends
P/N **81240-25** 3/4" x 25' DEF hose w/ male NPT fittings both ends
P/N **81240-50** 3/4" x 50' DEF hose w/ male NPT fittings both ends

IS P/N **43002DEF-25**
Hose reel utilizes stainless steel hub and swivel to ensure DEF compatibility. Includes 3/4" x 25' hose mounted on reel.



IS P/N **20012-V**
1/2" Double diaphragm pump has polypropylene body construction with Santoprene diaphragm and seals. Rated to 25 GPM maximum capacity with 1/2" NPTF inlet and outlet, 1/4" NPT air inlet. Operating air pressure from 20 to 100 PSI.



P/N **20013-YPS**
1" Double diaphragm pump has polypropylene body construction with Santoprene diaphragm and seals. Rated to 49 GPM maximum capacity with 1" NPTF inlet and outlet, 3/8" NPT air inlet. Operating air pressure from 20 to 100 PSI.



IS P/N **70177-01**
DEF compatible filter assembly includes filter housing and 1 micron filter element. Large 10" element ensures low pressure drop and large dirt holding capacity.



IS P/N **70176-01**
Replacement filter element for above filter assembly, 1 micron



P/N **100377** P/N **100378**
P/N **100376** P/N **100386**

IS P/N **100386**
In Line Electronic Digital Turbine Meter, 1" BSPP male threads.



P/N **100379** P/N **100378**
P/N **100386**

IS P/N **100376**
Manual nozzle adapter, 1" BSPPF x 1" NPTF



IS P/N **100378**
Meter to supply hose, 1" BSPPF x 3/4" hose barb.



IS P/N **100377**
Couples manual nozzle to adapter, 1" BSPPF x 1" NPTM.



IS P/N **100379**
Couples auto nozzle to meter, 1" BSPPM x 1" BSPPF.





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