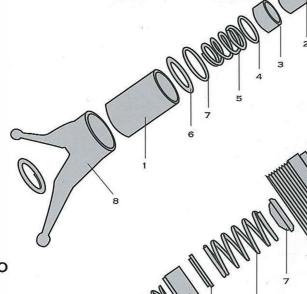
PARTS LIST



FUEL NOZZLE 2510

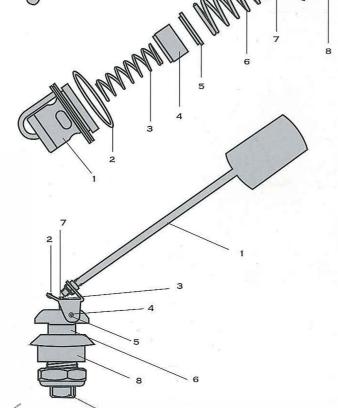
ITEM	DESCRIPTION	PART NUMBER
1.	Body	2404
2.	T-Valve	2405
3.	Sleeve	2406
4.	"O" Ring	2803
5.	Spring	2901
6.	Snap Ring	1100
7.	"O" Ring	2804
8.	Union Nut	2754





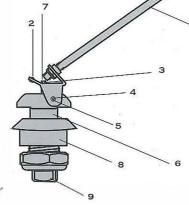
LOCOMOTIVE COUPLING HALF 2500

ITEM	DESCRIPTION	PART NUMBER
1.	Tube & Cylinder	2503
2.	"O" Ring	2802
3.	Spring	2900
4.	Piston	2400
5.	Brass Seat Retainer	2401
6.	Spring	2936
7.	Poppet Valve	2501
8.	Coupling Body	2752

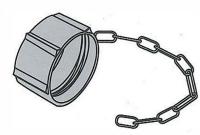


INTERNAL HORIZONTAL FLOAT 2515

ITEM	DESCRIPTION	PART NUMBER
1.	Float & Arm Assembly	2516
2.	Nylon Plug	2805
3.	Snap Ring	2104
4.	Nylon Bushing	2806
5.	Spring Pin	2101
6.	Valve Body	2407
7.	Float Valve	2408
8.	Nylon Nut	2409
0	Jam Niut	2102



DUST CAP 2502



OVERRIDE VALVE 2525



The Override Valve #2525 bypasses the automatic shutoff feature of the fueling unit when manual or visual topping is desired. The fuel does not go in one side and out the other as sometimes happens with competitors products. The system utilizes a closed tank that is opened only when and where it is being refueled.

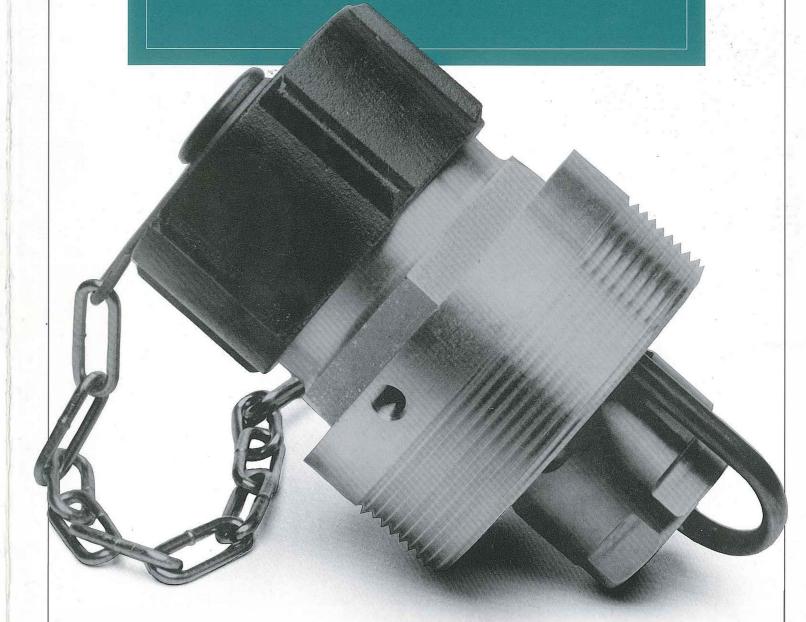
INSTRUCTION **PLATE 2914**

A corresponding instruction plate #2914 is also available to attach to the tank near the override valve.



AUTOMATIC FUEL INPUT SYSTEM

ELIMINATES SPILLAGE • NO HAND TOPPING HIGH FLOW RATE • COMPATIBLE WITH ANY SYSTEM



FUELING SYSTEMS, INC.

A COMPLETE FUELING SYSTEM THAT PROVIDES GREATER SAFETY, REDUCED COST AND FASTER OPERATION.

FILL TANKS

COMPLETELY AND

HAND TOPPING.

and requires no hand topping or

fueling from either side of the tank.

A DEPENDABLE,

PROVEN SYSTEM.

EASILY INSTALLED

AND MAINTAINED.

QUICKLY WITHOUT

A high flow rate of 10-300 gpm provides

maximum efficiency in fueling operations

monitoring. Self-sealing valves prevent lost

fuel during disconnect. The system allows

The system is entirely mechanical. There is

no power required, and no electronic parts

to fail. The EDCA system is completely

compatible with existing fueling systems and can be installed quickly, with ease of

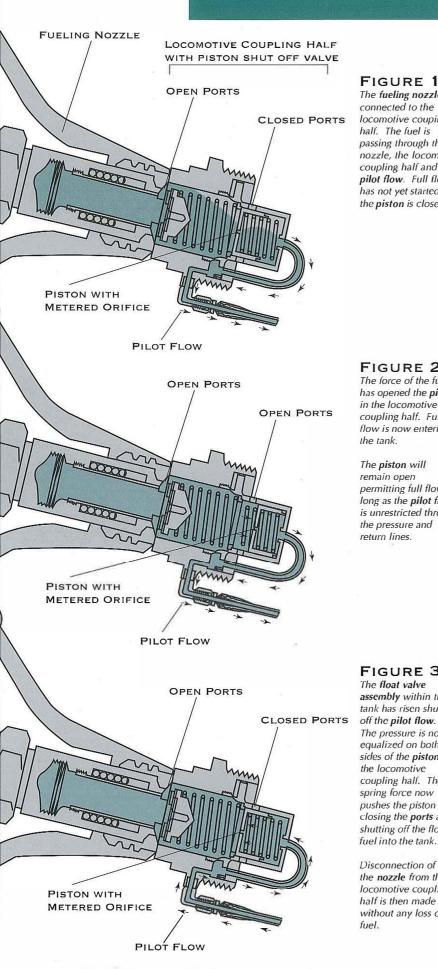


FIGURE 1

The fueling nozzle is connected to the locomotive couping half. The fuel is passing through the nozzle, the locomotive coupling half and the pilot flow. Full flow has not yet started as the piston is closed.



The force of the fuel has opened the piston in the locomotive coupling half. Full flow is now entering the tank.

The piston will remain open permitting full flow as long as the pilot flow is unrestricted through the pressure and return lines

FIGURE 3

assembly within the

The pressure is now

sides of the piston in

coupling half. The

pushes the piston back

shutting off the flow of

closing the ports and

spring force now

fuel into the tank.

Disconnection of

half is then made

without any loss of

the nozzle from the locomotive coupling

equalized on both

the locomotive

tank has risen shutting

The float valve

OVERFLOWING.

thousands of dollars in lost fuel by preventing spills and the environmental problems they cause: water contamination, the need for equipment to separate fuel oil from public sewage systems, and fire hazards. Typical fuel loss of 1 to 2% with manual filling is completely eliminated. The system prevents accidents from slick fueling areas (lengthens ballast life at fuel stands) and assists in compliance with government regulations.

maintenance in the shop or in the field. All parts are precision made and manufactured for durability. The EDCA fueling system is in use worldwide.

SYSTEM COMPONENTS

The Fueling Nozzle is attached to the fuel hose at the fueling stand. It consists of a self-sealing valve that is opened or closed automatically when the nozzle is connected to or disconnected from the Locomotive Coupling Half. The purpose of this selfsealing valve is to prevent fuel from draining out of the fuel hose when it is in the uncoupled position. Also, the head end of the Fuel Nozzle valve opens a self-sealing valve in the locomotive half when the two units are coupled together.

The Locomotive Tank Coupling Half with automatic shut-off valve is located in the fuel tank fill pipe of the diesel locomotive. It provides a mating connection for the EDCA Fueling Nozzle. When the Fueling Nozzle is connected to the Locomotive Coupling Half, a self-sealing poppet valve on the outside of the coupling is opened (see sectional view). The piston valve has a small orifice that allows a pilot fuel flow to go to the Float Valve Assembly. The pilot fuel flow reduces the pressure on the back side of the piston so that the incoming fuel holds the piston open.

When the pilot fuel flow is topped by the Float Valve Assembly, pressure builds up on the back side of the piston and equalizes with the pressure on the front side of the piston. A spring behind the piston closes the piston valve to shut off the main fuel into the fill pipe.

A Dust Cap protects the threads and mechanism from dirt, ice and physical damage. EDCA Dust Caps are supplied with a safety chain to prevent accidental loss. Two Coupling Halves with Dust Caps are included in the package.

The Float Valve Assembly is mounted inside the fuel tank. The simplified design and unique nylon bushing nut permits easy installation and long maintenance-free service life.

ELIMINATE COSTLY FUEL SPILLAGE AND

The EDCA automatic fueling system saves

