

F900EX EASY	<b>ATA 38 – WATER - WASTE TABLE OF CONTENTS</b>	02-38-00
CODDE 1		PAGE 1 / 2
DGT91832		ISSUE 4

**02-38 ATA 38 – WATER - WASTE**

02-38-00 TABLE OF CONTENTS

02-38-05 GENERAL

Introduction  
Sources  
Equipment location

02-38-10 DESCRIPTION

General

02-38-15 CONTROL AND INDICATION

Control

02-38-20 SYSTEM PROTECTION

Introduction  
Circuit breakers  
Pressure relieve valves

02-38-25 ABNORMAL OPERATION

CAS message

02-38-00	<b>ATA 38 – WATER - WASTE</b> <b>TABLE OF CONTENTS</b>	F900EX EASY
PAGE 2 / 2		CODDE 1
ISSUE 4		DGT91832

**INTENTIONALLY LEFT BLANK**

<b>F900EX EASY</b>	<b>ATA 38 – WATER - WASTE GENERAL</b>	<b>02-38-05</b>
<b>CODDE 1</b>		<b>PAGE 1 / 6</b>
<b>DGT91832</b>		<b>ISSUE 4</b>

**INTRODUCTION**

The F900EX EASy is equipped with:

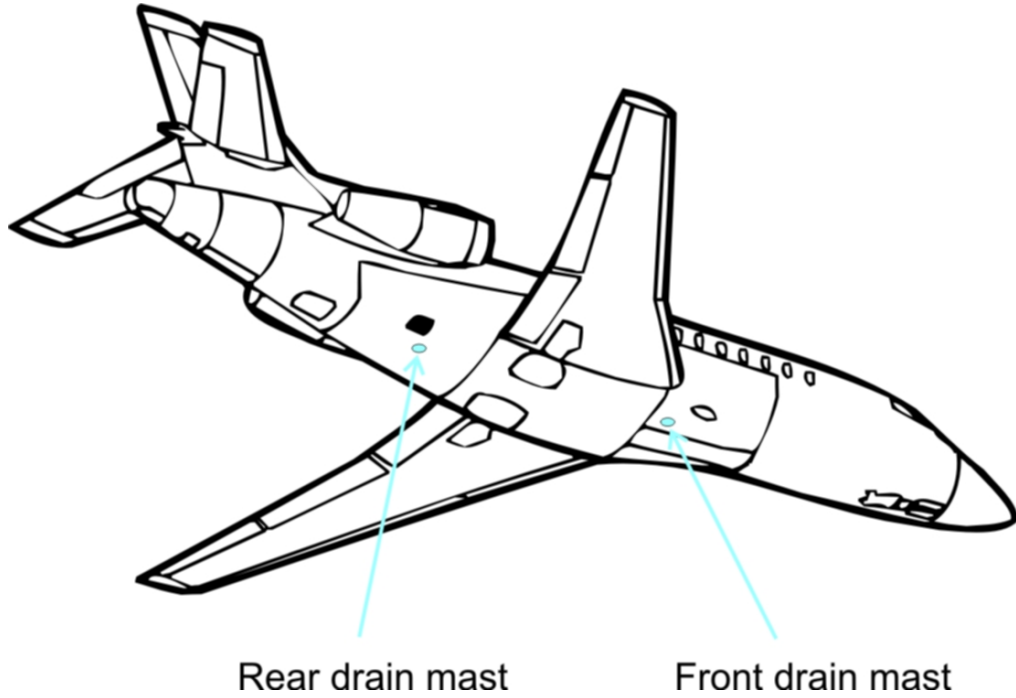
- a pressurized water system to supply galley and toilet washbasin,
- a chemical type front (option) and rear toilet unit with a flush and drain system.

**SOURCES**

<b>EQUIPMENT</b>	<b>POWER</b>
Tank pressurization	HP bleed air of engines or APU bleed air or Air stored in specific accumulator (once the latter is charged)
Cold water for: RH front galley Rear toilet washbasin	Pressurized water tank
Hot water	Pressurized water tank through toilet water heater
Water heater Drain heat systems	LH (A2) bus RH (B2) bus

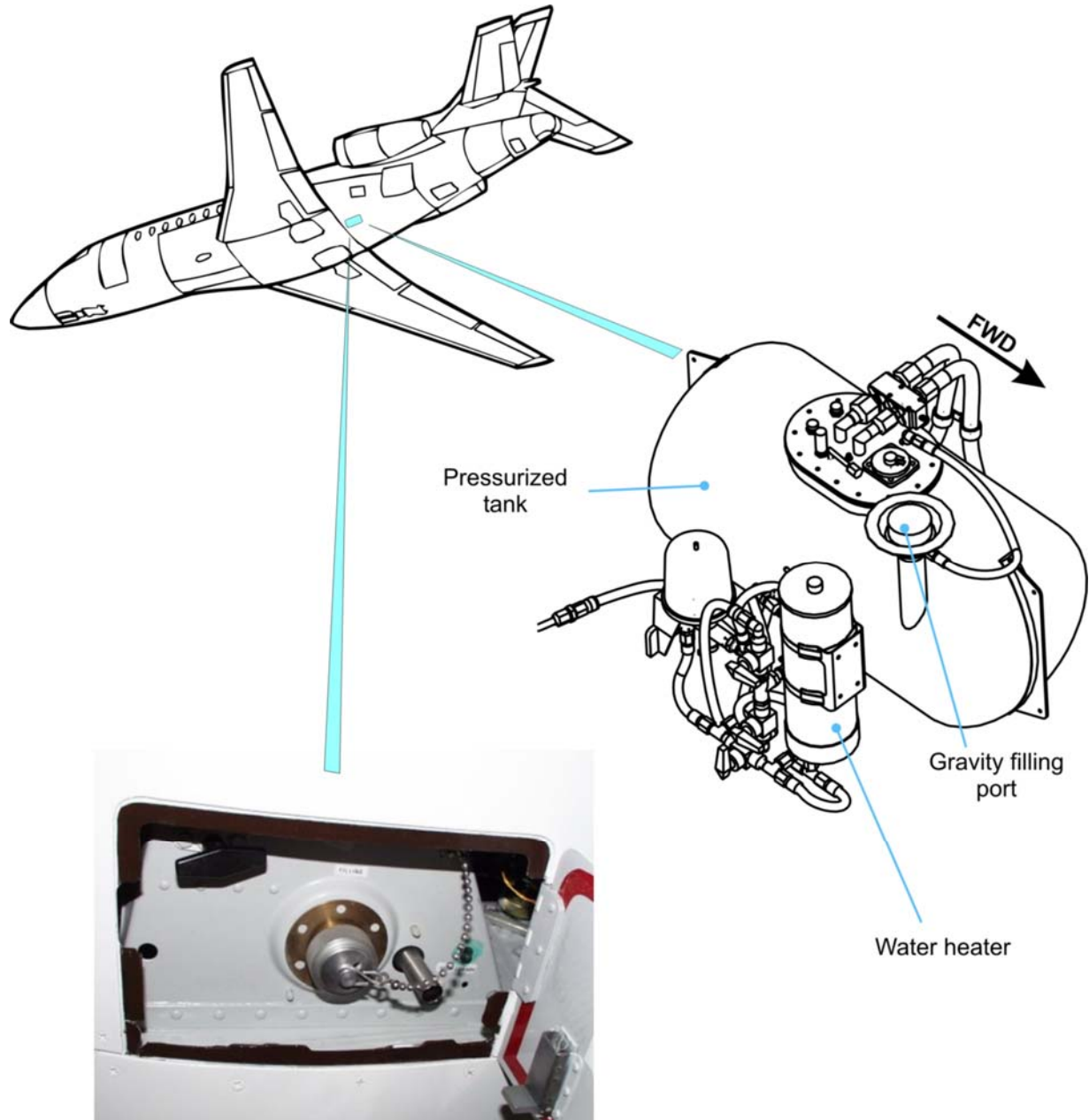
02-38-05	<b>ATA 38 – WATER - WASTE GENERAL</b>	F900EX EASY
PAGE 2 / 6		CODDE 1
ISSUE 4		DGT91832

**EQUIPMENT LOCATION**



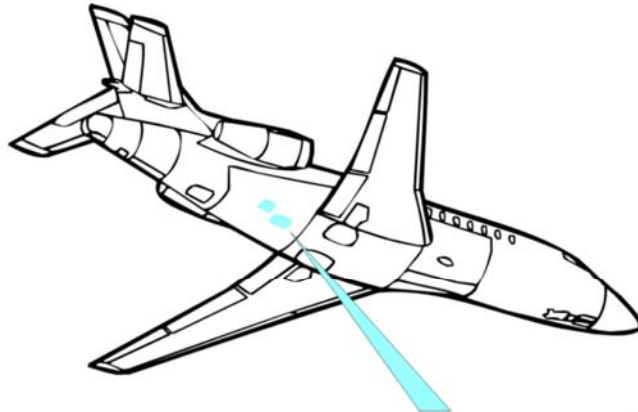
**FIGURE 02-38-05-00 FRONT AND REAR DRAINING SYSTEM**

F900EX EASY	<b>ATA 38 – WATER - WASTE GENERAL</b>	02-38-05
CODDE 1		PAGE 3 / 6
DGT91832		ISSUE 4



**FIGURE 02-38-05-01 POTABLE WATER SERVICE PANEL DOOR AND TANK**

02-38-05	<b>ATA 38 – WATER - WASTE GENERAL</b>	F900EX EASY
PAGE 4 / 6		CODDE 1
ISSUE 4		DGT91832



Draining port



Draining valve control handle

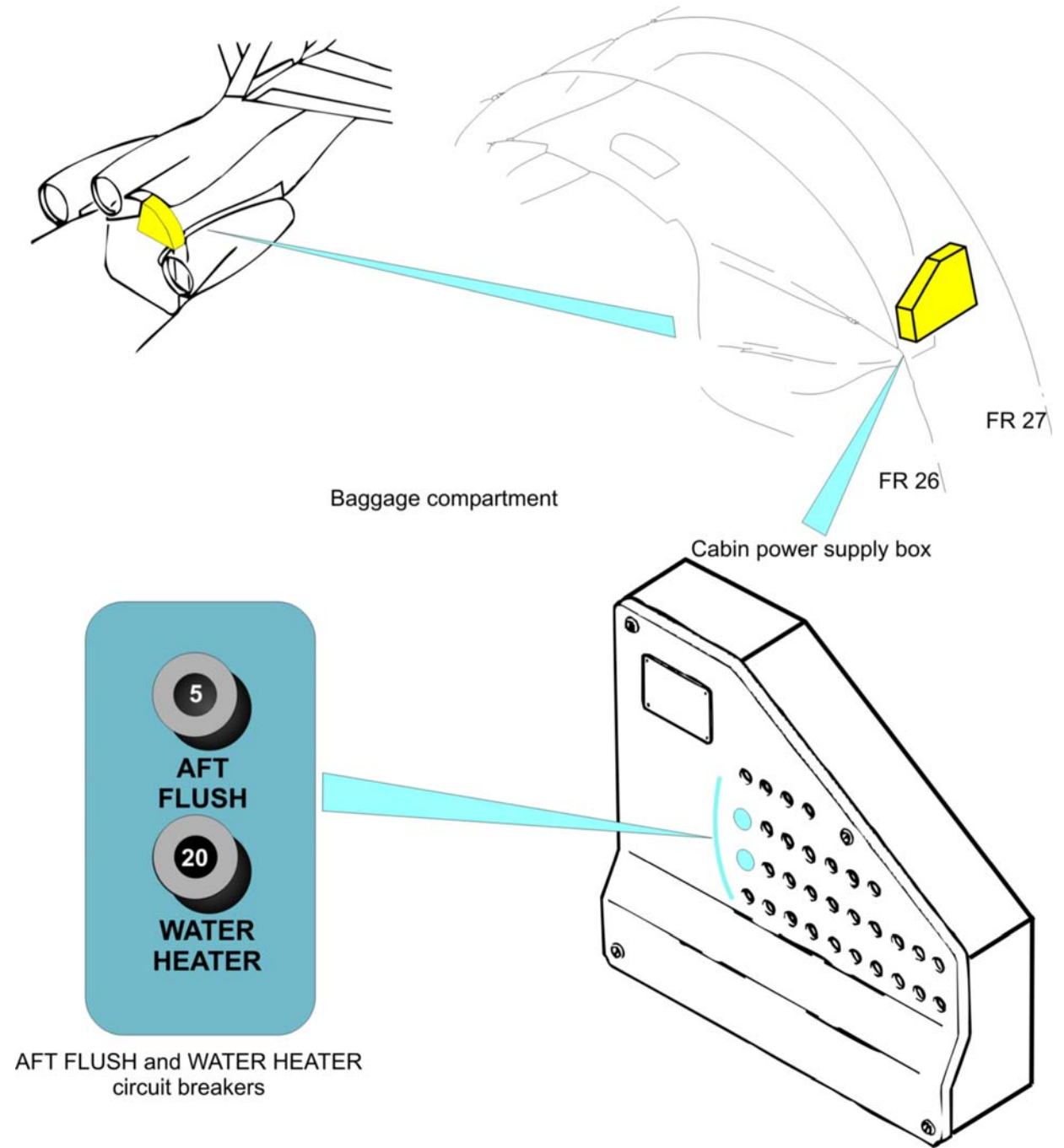


Flushing port



**FIGURE 02-38-05-02 TOILET SERVICE PANEL DOOR**

F900EX EASY	<b>ATA 38 – WATER - WASTE GENERAL</b>	02-38-05
CODDE 1		PAGE 5 / 6
DGT91832		ISSUE 4



**FIGURE 02-38-05-03 CABIN POWER SUPPLY BOX**

02-38-05	<b>ATA 38 – WATER - WASTE GENERAL</b>	F900EX EASY
PAGE 6 / 6		CODDE 1
ISSUE 4		DGT91832

**INTENTIONALLY LEFT BLANK**



F900EX EASY	<b>ATA 38 – WATER - WASTE DESCRIPTION</b>	02-38-10
CODDE 1		PAGE 1 / 4
DGT91832		ISSUE 4

**GENERAL**

**POTABLE PRESSURIZED WATER SYSTEM**

The pressurized water system supplies:

- the RH front galley,
- the rear toilet washbasin.

The pressurized water system essentially includes a potable water tank that can be filled by gravity through a filling port located on the RH of the washbasin bowl, in the rear toilet or by pressure through a port inside potable water service door.

Potable water tank capacity: 15 USG (56.8 liters).

**NOTE**


The water pressure of the external filling source must not exceed 60 psi (4 bar).

**NOTE**

To open gravity filling cap, press it before to depressurize the water tank.

**NOTE**

Water tank must be filled only with potable water (distilled and softened water prohibited).

Water is distributed by tank pressure. Water system pressurization is ensured by pressurized air bled from the engines or from the APU, or in flight by air stored in one specific accumulator. Toilet water heater supplies hot water to the rear toilet washbasin. It provides 1.4 water liter at 52°C (125°F) approximately. It is load shed when  pushbutton is OFF (Overhead panel / DC SUPPLY).

**NOTE**

The water system can be drained to prevent damage by freezing In normal operating conditions, it is recommended to drain the tank to avoid contamination.

*For more information see GROUND SERVICING (DGT616).*

02-38-10	<b>ATA 38 – WATER - WASTE</b> <b>DESCRIPTION</b>	F900EX EASY
PAGE 2 / 4		CODDE 1
ISSUE 4		DGT91832

**WASTE WATER**

Waste water is drained through water front and rear drain masts located under the fuselage. These masts and certain lines are electrically anti-ice.

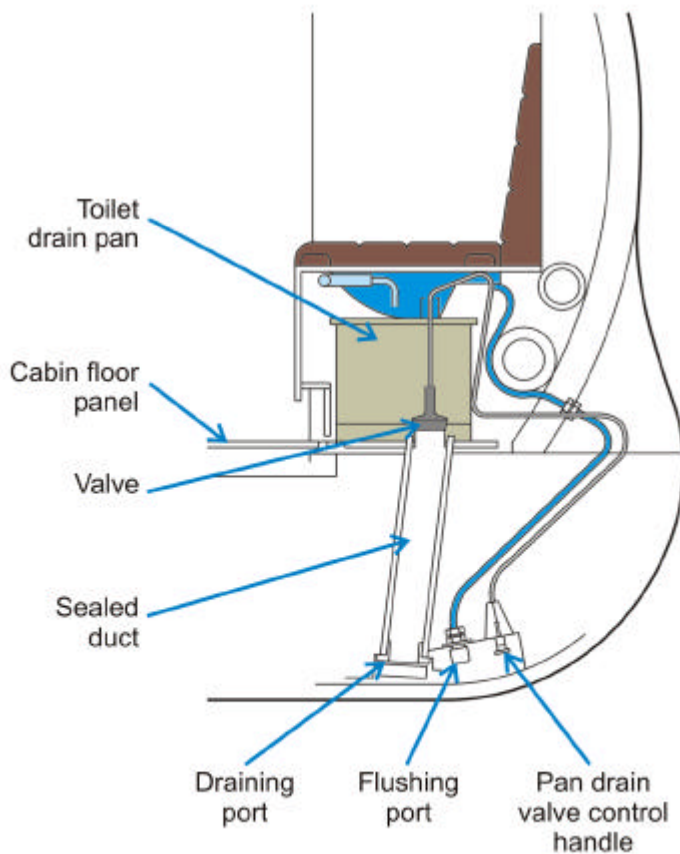
➤ for more information, refer to ATA 30.

**CHEMICAL TOILET**

The chemical-type rear toilet unit features a drain pan with a drain valve and bowl equipped with a flush and drain system.

Toilet waste water draining and toilet water tank filling can be performed through ports inside toilet service panel.

Toilet has a fiberglass drain pan with a capacity of 14.3 USG (54 liters) included 2.5 USG (9.5 liters) for pre-loaded.



**FIGURE 02-38-10-00 REAR CHEMICAL TOILET**

F900EX EASY	<b>ATA 38 – WATER - WASTE DESCRIPTION</b>	02-38-10
CODDE 1		PAGE 3 / 4
DGT91832		ISSUE 4

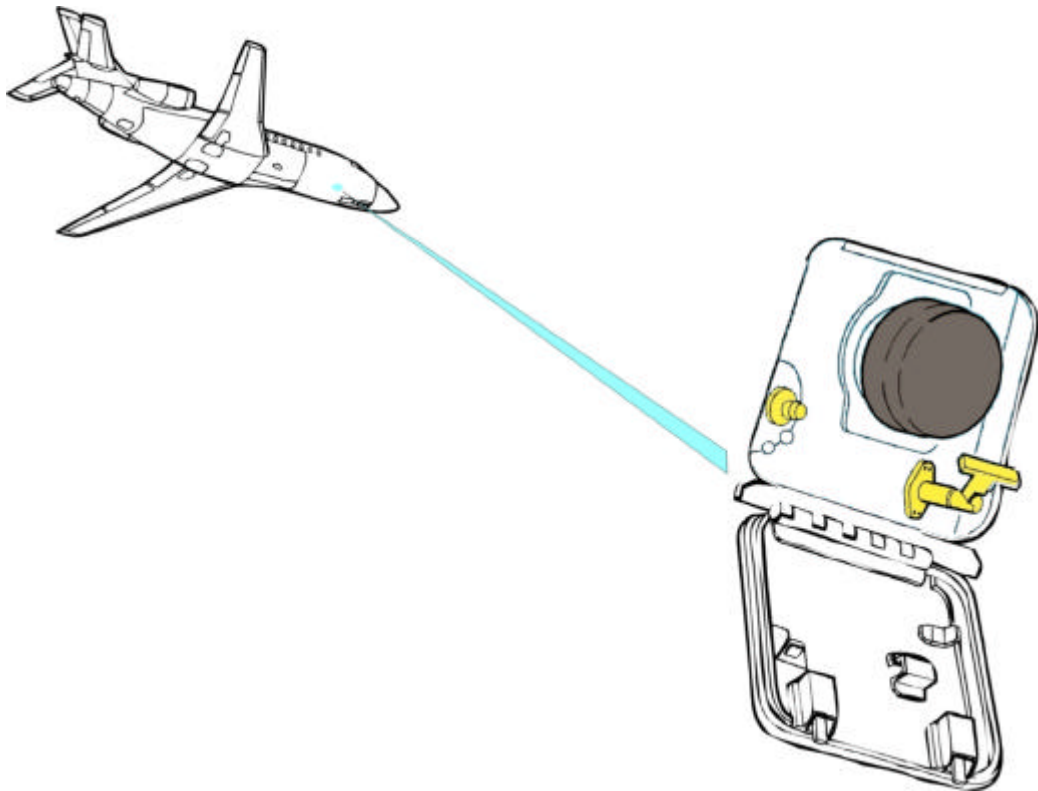
### OPTIONAL FORWARD CREW LAVATORY

A lavatory compartment is installed immediately in front of the main entry door.

The compartment houses an electric-flush toilet serviced through an external panel on the forward lower RH fuselage. On the outboard side wall, a panel incorporates a fold-out sink with hot/cold water faucet. Waste water drains overboard through a heated drain mast system.

The forward bulkhead contains a header incorporating a 220 V / 50 Hz power outlet, dual oxygen mask dropout box, a Public Ad system speaker and a RETURN TO SEAT sign.

A ventilating system is installed in the compartment (2 fans under floor and 2 suction grids).



**FIGURE 02-38-10-01 FORWARD TOILET SERVICE PANEL DOOR (OPTIONAL)**

**DOOR: FWD TOILET SERV**

CAS message appears when forward toilet service panel door is not properly closed.

02-38-10	<b>ATA 38 – WATER - WASTE DESCRIPTION</b>	F900EX EASY
PAGE 4 / 4		CODDE 1
ISSUE 4		DGT91832

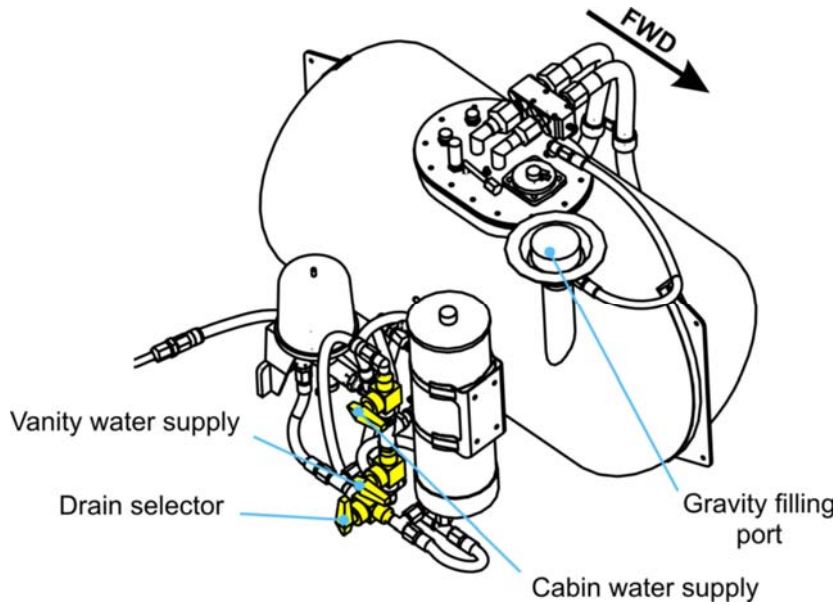
**INTENTIONALLY LEFT BLANK**

F900EX EASY	<b>ATA 38 – WATER - WASTE CONTROL AND INDICATION</b>	02-38-15
CODDE 1		PAGE 1 / 6
DGT91832		ISSUE 4

**CONTROL**

**DISTRIBUTION VALVES**

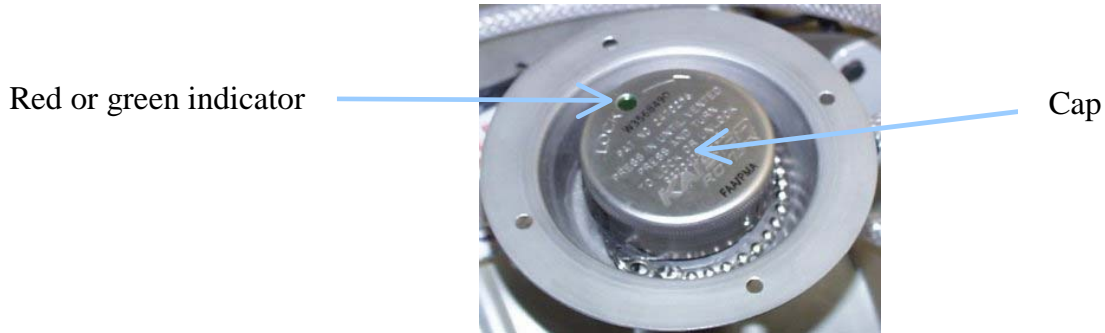
Located in front of the water tank in the toilet compartment, distribution valves allow to isolate or drain the different components of the water pressurized system. For more information refer to the GROUND SERVICING (DGT616) manual for use.



**FIGURE 02-38-15-00 DISTRIBUTION VALVES**

CONTROL	FUNCTION
Air valve	To cut off the pressurized air supply to the potable water tank
Rear toilet distribution valve	To isolate the rear washbasin from the fresh water supply system
Drain valve	To drain the potable water tank
Front galley distribution valve	To isolate the front galley from the fresh water supply system
BP manometer	To indicate air pressure in tank

**GRAVITY FILLING CAP**



**FIGURE 02-38-15-01 FILLING CAP**

CONTROL	FUNCTION
Cap	Press to depressurize the water tank
Cap	Turn to move it
Red indicator	Cap unlocked
Green indicator	Cap locked

**WATER PRESSURE INDICATION**

The manometer(s) is(are) located:

- on the rear toilet water tank,
- in the forward galley (optional).



**FIGURE 02-38-15-02 WATER TANK CONTROL AND INDICATION**

F900EX EASY	<b>ATA 38 – WATER - WASTE CONTROL AND INDICATION</b>	02-38-15
CODDE 1		PAGE 3 / 6
DGT91832		ISSUE 4

**NOTE**

The normal pressure is around 20 psi.

The pressure indicator located in RH bulkhead in baggage compartment indicates the accumulator water tank pressure.



**FIGURE 02-38-15-03 ACCUMULATOR WATER TANK PRESSURE**

02-38-15	<b>ATA 38 – WATER - WASTE CONTROL AND INDICATION</b>	F900EX EASY
PAGE 4 / 6		CODDE 1
ISSUE 4		DGT91832

**WATER HEATER TEST PANEL**

The water heater test panel is located in rear toilet, LH bulkhead.



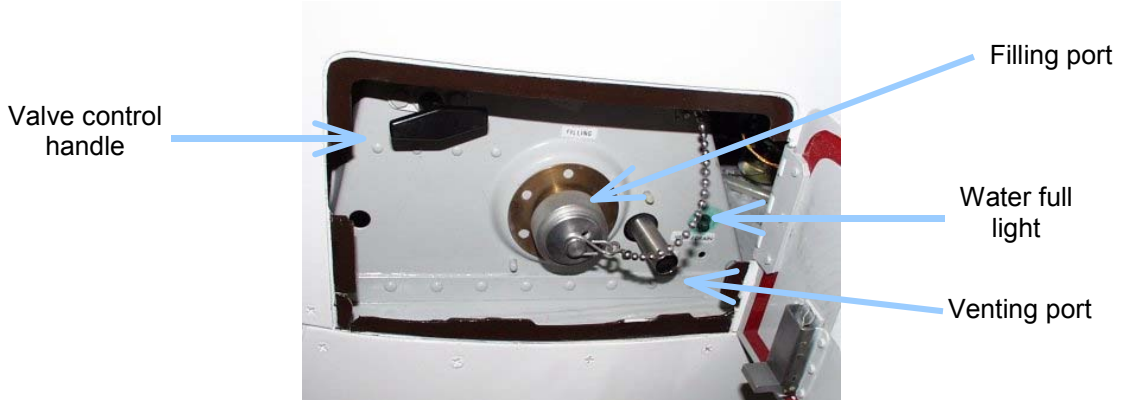
**FIGURE 02-38-15-04 WATER HEATER TEST PANEL**

CONTROL	FUNCTION
Water heater test switch	It is used to test the water heating device  When set to TEST, the water heater test switch allows illumination of water heater test light if heating resistors are energized
Water heater test light	Illuminated if test switch in TEST position and heating resistors energized
Water heater magnetic breaker	It is used to reset the water heater power supply unit after cut off due to failure detection



F900EX EASY	<b>ATA 38 – WATER - WASTE CONTROL AND INDICATION</b>	02-38-15
CODDE 1		PAGE 5 / 6
DGT91832		ISSUE 4

**POTABLE WATER SERVICE PANEL DOOR**

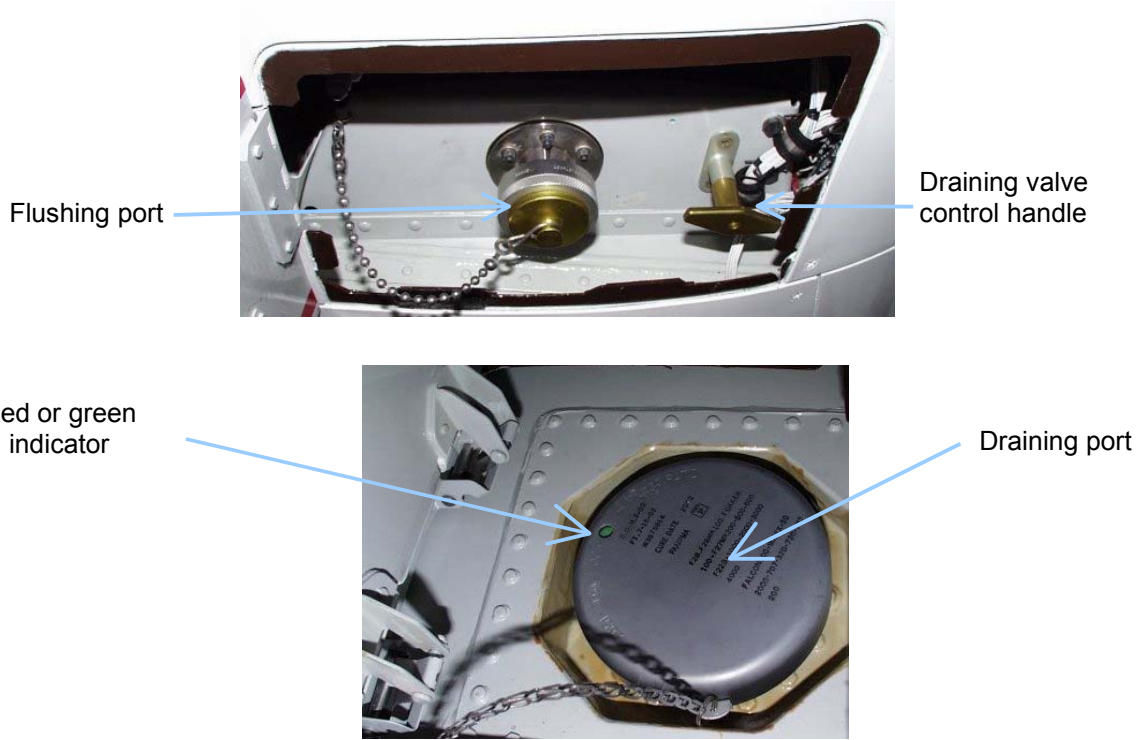


**FIGURE 02-38-15-05 SERVICE PANEL DOOR**

CONTROL	FUNCTION
Control handle	When the handle is pulled, the tank filling and venting lines open When the handle is pushed, the tank filling and venting lines close
Water full light	Indicates that the tank is full

02-38-15	<b>ATA 38 – WATER - WASTE CONTROL AND INDICATION</b>	F900EX EASY
PAGE 6 / 6		CODDE 1
ISSUE 4		DGT91832

**TOILET SERVICE PANEL DOORS**



**FIGURE 02-38-15-06 SERVICE PANEL DOORS**

CONTROL	FUNCTION
Draining valve control handle	When the handle is pulled, the drain valve opens (connect the draining tube before)

Controls and functions are identical for the optional forward toilet service panel.



**FIGURE 02-38-15-07 TOILET PUSHBUTTONS**

F900EX EASY	<b>ATA 38 – WATER - WASTE SYSTEM PROTECTION</b>	02-38-20
CODDE 1		PAGE 1 / 2
DGT91832		ISSUE 4

**INTRODUCTION**

The water system is protected by conventional trip-free circuit breakers located above the overhead panel and in the baggage compartment (cabin power supply box).

**CIRCUIT BREAKERS**

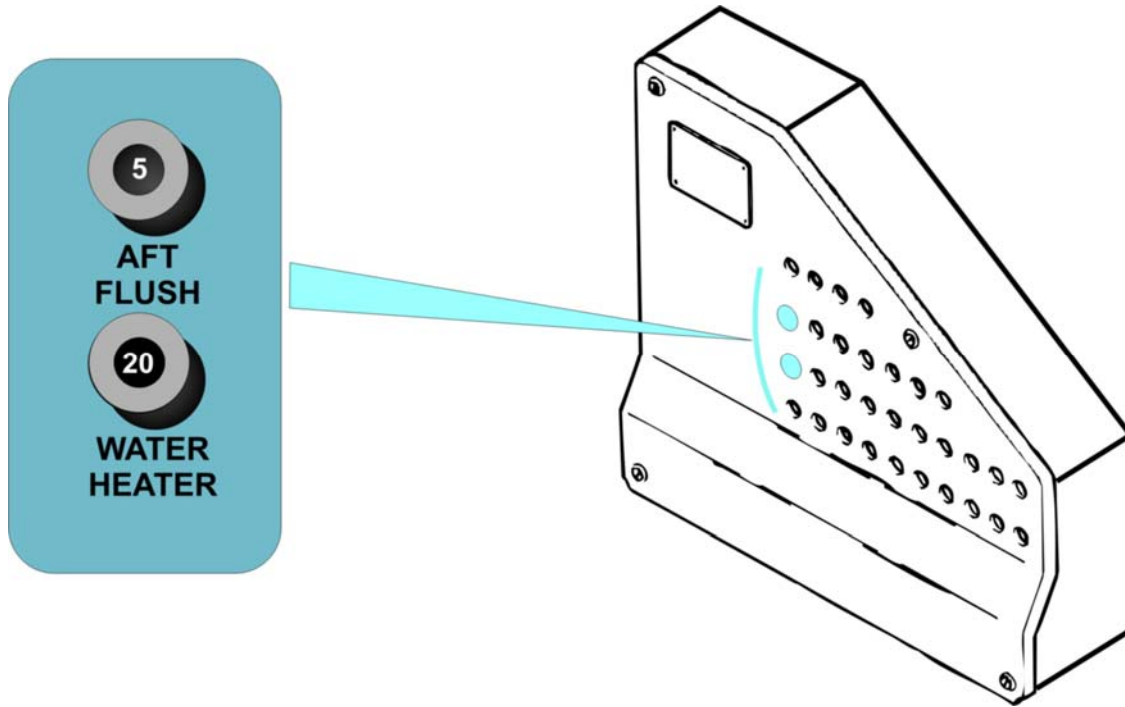
**OVERHEAD PANEL**



**FIGURE 02-38-20-00 OVERHEAD PANEL CIRCUIT BREAKERS**

02-38-20	<b>ATA 38 – WATER - WASTE SYSTEM PROTECTION</b>	F900EX EASY
PAGE 2 / 2		CODDE 1
ISSUE 4		DGT91832

**CABIN SUPPLY POWER BOX**



**FIGURE 02-38-20-01 BAGGAGE COMPARTMENT CIRCUIT BREAKERS**

**PRESSURE RELIEVE VALVES**

The water supply system and the tank are protected against overpressure through pressure relief valves. The tank is also protected against negative pressure through a relief valve.

F900EX EASY	<b>ATA 38 – WATER - WASTE ABNORMAL OPERATION</b>	02-38-25
CODDE 1		PAGE 1 / 2
DGT91832		ISSUE 4

<b>CAS MESSAGE</b>
--------------------

CAS MESSAGE	DEFINITION
<b>DOOR: FWD TOILET SERV</b>	Forward toilet door is open

02-38-25	<b>ATA 38 – WATER - WASTE ABNORMAL OPERATION</b>	F900EX EASY
PAGE 2 / 2		CODDE 1
ISSUE 4		DGT91832

**INTENTIONALLY LEFT BLANK**