

OPERATING INSTRUCTIONS

Manufacturer	deltaVision GmbH Hofmannstr. 50 81379 München
Product	Fill and Drain Valve Fill and Drain Valve Coupler
Product type	F4a F4a GHC





SAFETY

Strict compliance with these operating instructions is essential for the safe and enduring use of this product. No warranty is given in case of non-compliance with the operating instructions or improper handling of the product. This product is intended exclusively for use with the fluids specified in the data sheet. Use of the product under conditions not specified in the data sheet or contrary to the instructions contained therein is understood to be IMPROPER. The manufacturer assumes no liability for damage or loss resulting from improper use of the product.

No warranty is given in case the customer would open the product without prior agreement of deltaVision.



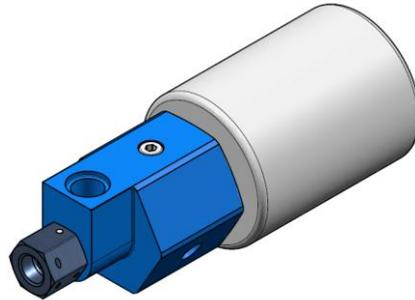
WARNING

- The generally applicable safety regulations must be observed when planning, installing and using the product.
Appropriate measures must be taken to prevent unintentional incorrect handling or damage to the product.
Valves or connections in the system must not be unscrewed or dismantled under pressure. Before dismantling pressure lines, make sure that they are depressurized.



BEFORE INSTALLATION

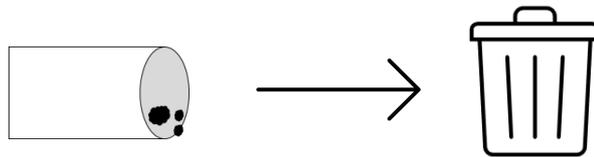
1. Release the pressure of the system before installation.



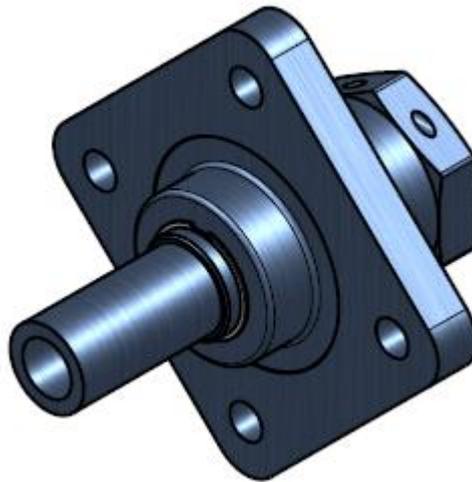


INSTALLATION

1. Clean pipes before installation.



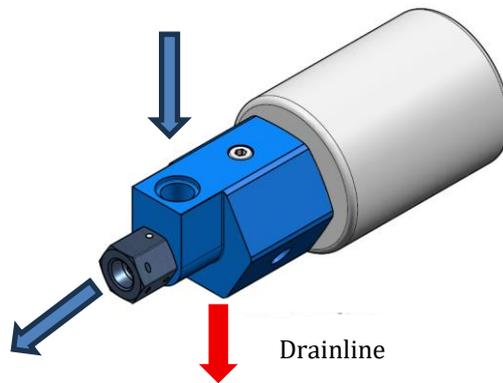
2. It is recommended to install a filter of 20 microns upfront of the coupler to avoid valve contamination.
3. Install the F4a valve on the tank by following the recommendations of the screw supplier.



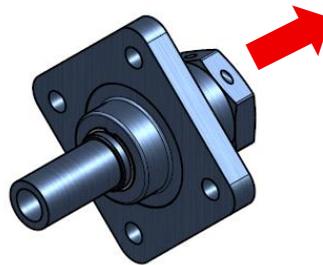
OPERATION

For filling and draining

1. Install the drainline at the bottom fitting of the coupler and keep it closed



2. Remove the cap from the F4a



3. Attach the GHC to the F4a by tightening the screw nut. Check that an O-ring is inside the screw nut. Use the tightening torque recommended in the F4a datasheet.
4. Attach an inlet/outlet pipe to the top fitting
5. Open the drainline then fill or drain
6. After filling or draining close the drainline then remove the coupler
7. Reattach F4a cap.

For draining

1. Turn the GHC handle clockwise until the handle snaps back and is in a fixed position
-> the F2a valve is now open

For filling

1. Open the F4a just like for the draining procedure
2. After filling the tank and the desired tank pressure is achieved, turn the GHC handle anticlockwise. The GHC handle will move slightly forward to leave its locking position and then retract to the original position.

When the necessary force applied at the GHC handle becomes too large it is recommended to use a wrench at the GHC hex interface to hold it in place and avoid damage to the F4a and connected tubing.

Recommendations

- Avoid any impact damage to the GHC tip when it is extended



TROUBLESHOOTING

1. Check the pipings.



2. Check the piping for contamination.

