Reviewers Note: Words/phrases in blue will be links to specific diagnostic procedures when this document is published in Freshdesk.

## Defuel Valve Description, Operation, and Location

# PDO.0049 Ver. 1.0 December 10, 2022

The defuel valve is used for both fuel transfer and defueling and is located on or inside the fuel management module (FMM).

Three types of defuel valves are found on Hexagon® Agility® fuel systems and each type possesses different operating characteristics.

1. **2-way flow-adjustable valves** utilize a knob which must be turned fully CLOCKWISE to be CLOSED and fully COUNTERCLOCKWISE to be OPEN. Valve positions between CLOSED and OPEN are only to be used during defueling/fuel transfer to regulate fuel flow to avoid triggering excess flow valves. **Figure 1**

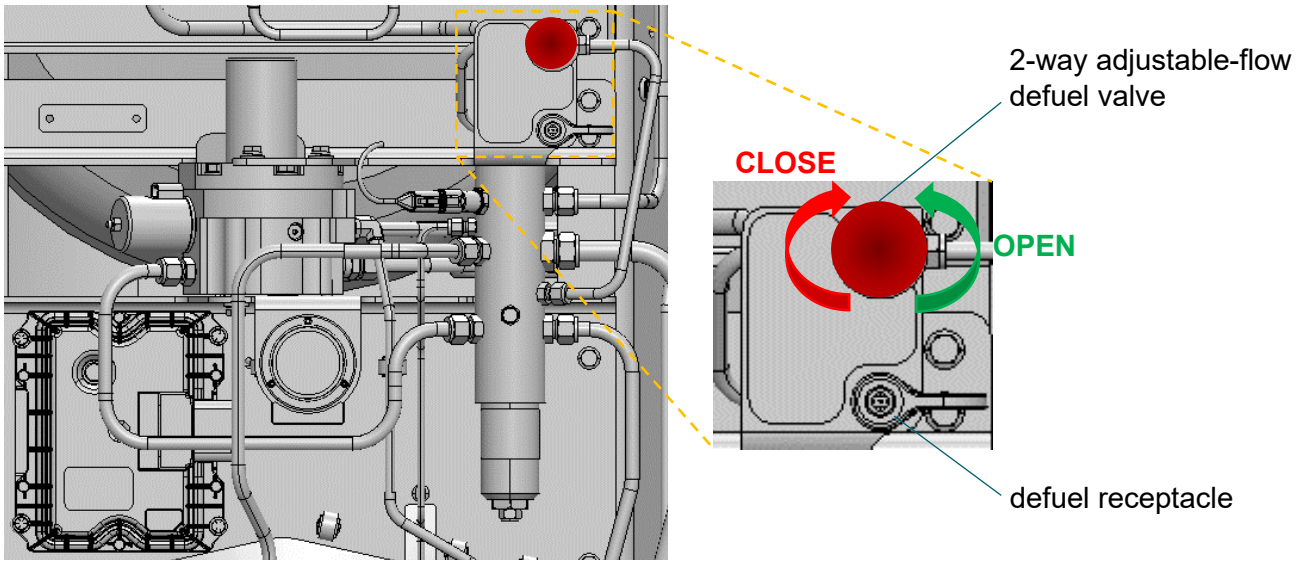



**Figure 1.** 2-way flow-adjustable defuel valve location and operation; 317-series ProCab® behind the cab (BTC). *NOTE: door open.*

2. **2-way valves** use a handle to operate 1/4-turn to move from CLOSED and OPEN positions. **Figures 2** and **3**

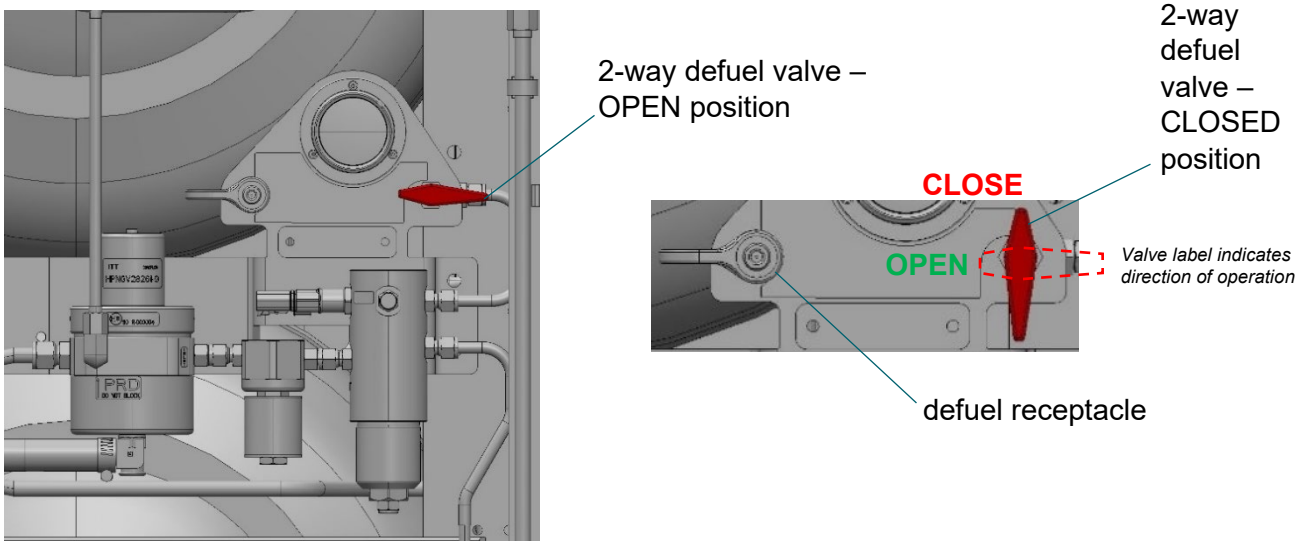



**Figure 2.** 2-way defuel valve locations and operation; 366-series ProCab® behind the cab (BTC). *NOTE: door open.*

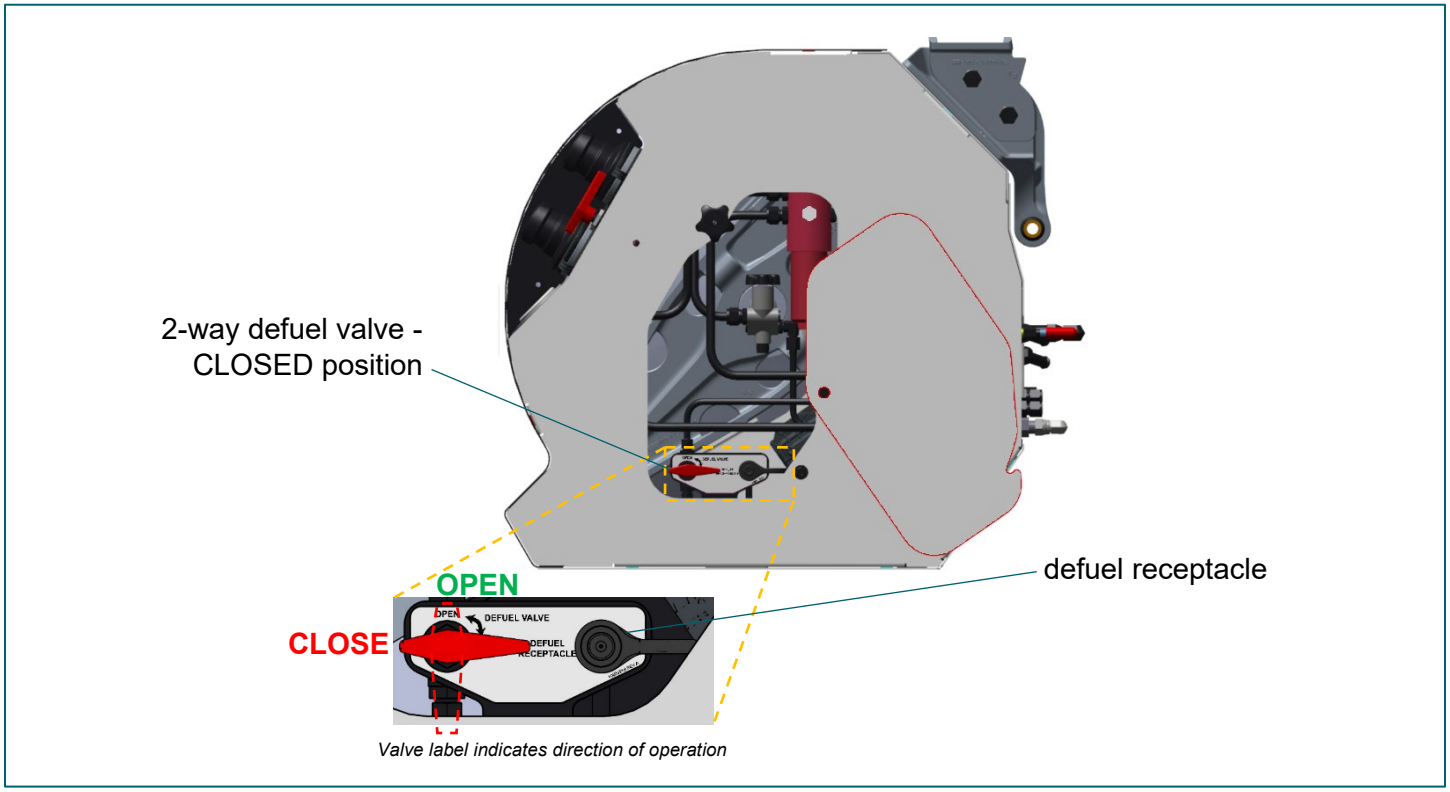



**Figure 3.** 2-way defuel valve locations and operation; ProRail® side mount (SM). *NOTE: access panel open.*

3. **3-way valves** use a handle which operates 1/4-turn each to move from CLOSED/OFF to VENT* and from VENT to DEFUEL positions. **Figures 4** and **5**

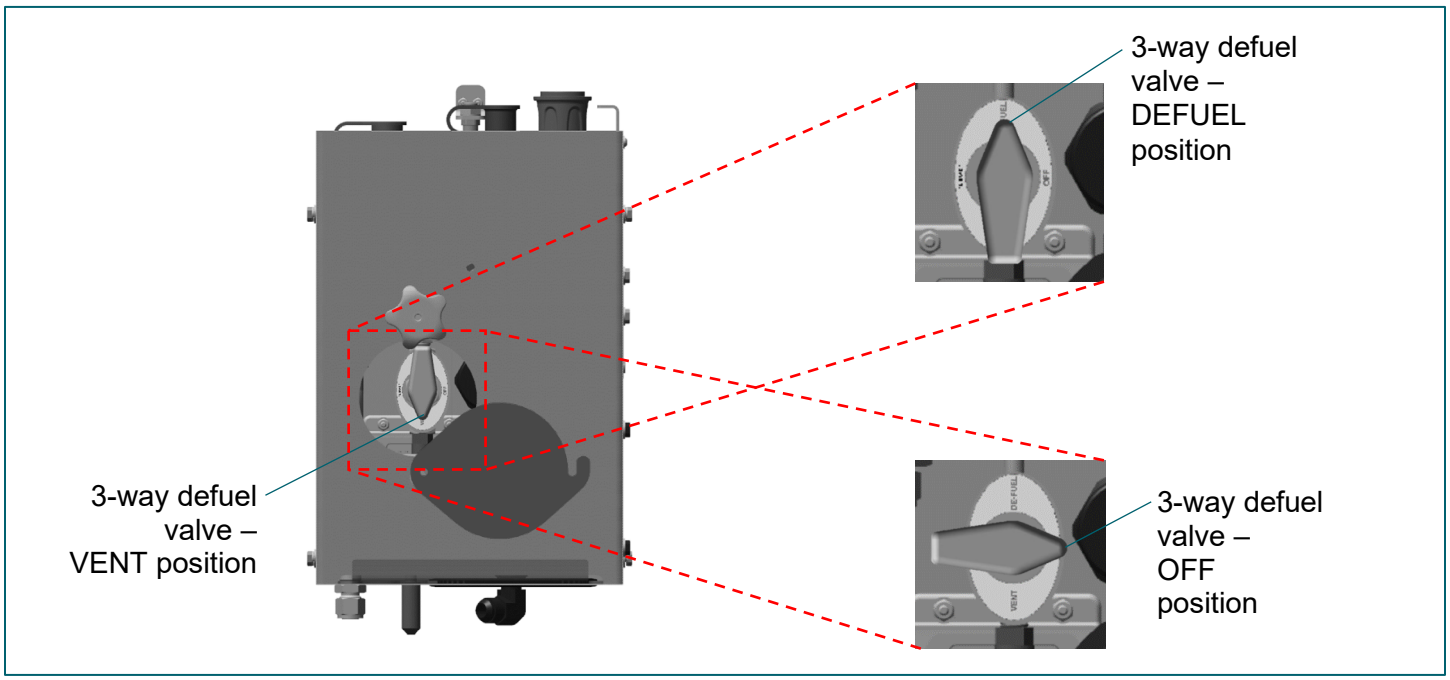



**Figure 4.** Box FMM 3-way defuel valve location and operation. *NOTE: access panel open.*

Depending on system configuration, the defuel valve may be located inside the FMM (**Figures 1**, **2**, **3**, and **4**) or on the FMM faceplate (**Figure 5**).

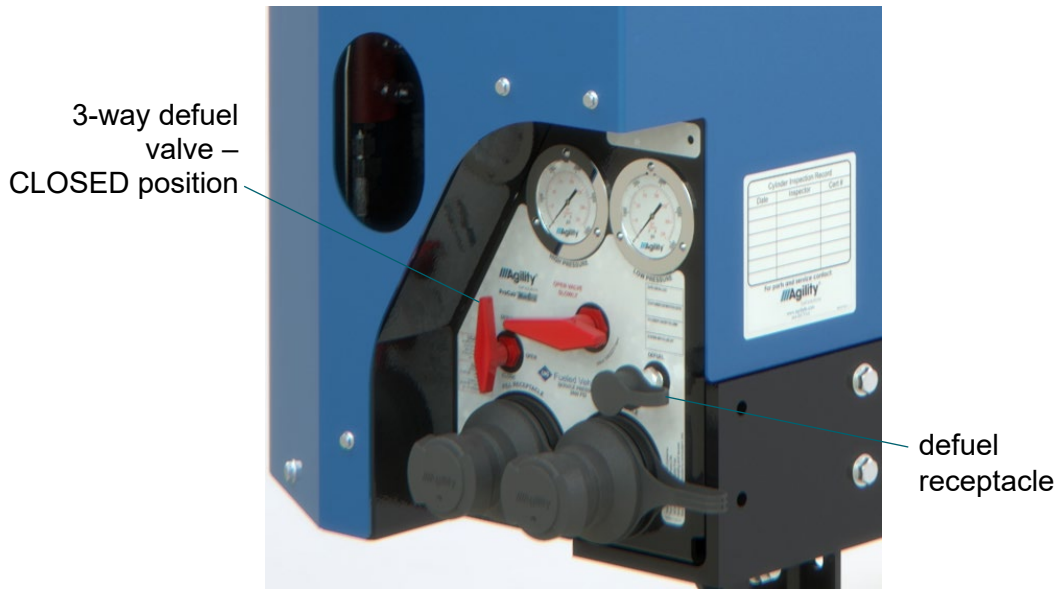



**Figure 5.** Integrated 274-series ProCab® BTC with 3-way defuel valve located on the FMM faceplate

**Some defuel valves may be marked "OPEN" instead of VENT.*