|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **NR** | **DESCRIPTION** | **MODE** | **NR** | **DESCRIPTION** | **MODE** | | 1 | DV-5A Deluge Valve |  | 10 | Automatic drain valve |  | | 2 | Main shut off Valve | Normally open | 11 | System drain valve | Normally closed | | 3 | Ball valve C1 | Normally open | 12 | Main drain valve | Normally closed | | 4 | Manual control station | Normally closed | 13 | Pressure switch C3 |  | | 5 | Solenoid valve C2 | Normally closed | 14 | Alarm test valve | Normally closed | | 6 | Gauge, upstream |  | 15 | Strainer |  | | 7 | Gauge valve | Normally open | 16 |  |  | | 8 | Gauge, pressure in diaphragm chamber |  | 17 |  |  | | 9 | Manual reset actuator |  | 18 |  |  | | C1 – Diaphragm chamber, supply valve  C2 – Solenoid valve, electrically controlled valve via actuating panel  C3 – Pressure of the water flow | | | | | |      |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | |  | **Diaphragm Cover Bolts Minimum Torque**  Nominal Valve Sizes, dimension | | | | | | | Torque  N/m | **DN40** | **DN50** | **DN80** | **DN100** | **DN150** | **DN200** | | Nuts | 59,7 | 59,7 | 254,9 | 536,9 | 359,3 | 738,9 | | Short Hex Bolts | 47,5 | 47,5 | 203,4 | 428,4 | 287,4 | 591,1 | | |  |  | | --- | --- | | **DV-5A** | **Automatic Water Control Valve Deluge Fire Protection Systems**  **Electric Actuation Trim** |   **Function**  Model DV-5A is an electric actuated deluge valve which is typically activated by a fire alarm system. The detection of a fire through the fire panel will activate the DV-5A Deluge Valve.  **Draining the system after activation**  Important: Before operating any valve or activating any alarm, inform the local fire marshal and the alarm monitoring center.   1. Shut off the main pump (ULF PUMP in position 0) 2. Close the main shutoff valve ②. 3. Close the diaphragm supply valve ③ to the diaphragm chamber and the manual control station ④. 4. Open the drain valves ⑪⑫. Drain the entire system. Verify that the system is drained by pressing the automatic drain valve ⑩, no water should drain from the valve.   **Taking the system in operation**   1. Close all the drain valves ⑪⑫. 2. Reset the fire panel in accordance with the manufacturer’s instructions in order to de-energies the solenoid valve ⑤. 3. Open the diaphragm supply valve ③. When the water flows from the tube, push the manual reset actuator ⑨. This pressurizes the diaphragm chamber, gauge ⑧. 4. Slowly open the main shutoff valve ②. Water supply pressure, gauge ⑧, rises to the set level. 5. Check that no water flows into the automatic drain valve ⑩. If no water runs out of the valve, the DV-5A Deluge valve is operative. 6. Turn the main pump to automatic (ULF PUMP in position *AUTO*)   **Alarm Test**  Important: Before operating any valve or activating any alarm, inform the local fire marshal and the alarm monitoring center.   1. Check that no water flows out of the automatic drain ⑩. 2. Open the alarm test valve ⑭ and check that the alarm triggered (red LED ‘*gas released*’). 3. Close the alarm test valve ⑭ and inform the local fire marshal and the alarm monitoring center that the test is completed.  |  | | --- | |  | | DATASHEET | |