

## MODEL UTD TEST AND DRAIN

### GENERAL DESCRIPTION

The Globe Model UTD Test and Drain allows for draining of a sprinkler system as well as performing the required Water Flow Test with one combined valve incorporating a single handle. The UTD eliminates the need to utilize two separate valves and additional fittings to perform the test and drain functions. The Globe Model UTD is equipped with a test orifice K-Factor of 2.8 (40.3 metric). As such, the Model UTD is UL Listed for, and meets the NFPA 13 requirement of providing a flow equal to or less than the smallest orifice sprinkler on the system, when no installed sprinkler is smaller than a K 2.8 (40.3 metric). These features of the Model UTD reduce the need for additional Test and Drain Valve inventory with multiple test orifices.

The Model UTD contains two integrated ports with clear Lexan plugs allowing for a visual means to determine if water is flowing through the valve. A third port is available for the drain connection of an optional pressure relief valve. The Globe Model UTD comes in threaded end connections for sizes 3/4" through 2" and also grooved end connections for sizes 1 1/4" through 2".

See Globe Technical Data Sheet GFV-575 for more information for the Globe Model ARV Listed adjustable pressure relief valve.

**Note:**

*In accordance with NFPA 13, all wet pipe sprinkler systems must be equipped with a, minimum 1/2", Listed pressure relief valve.*



### MODEL UNIVERSAL TEST AND DRAIN (UTD)

### TECHNICAL DATA

**Approvals**

- cULus
- FM

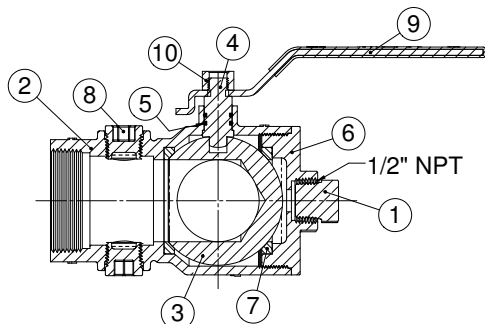
**Maximum System Working Pressure**

- 300 psi (20.6 Bar)

**Materials of Construction**

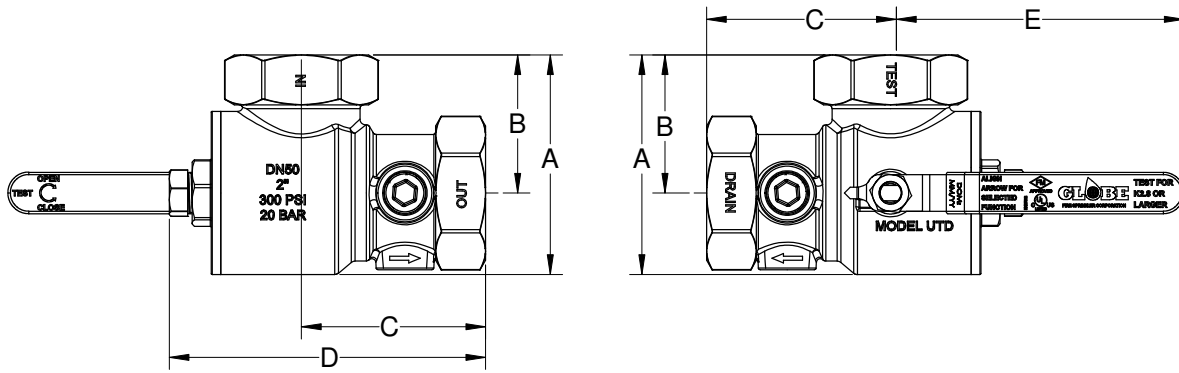
- See Figure 1

**FIGURE 1: MODEL UTD MATERIALS OF CONSTRUCTION**

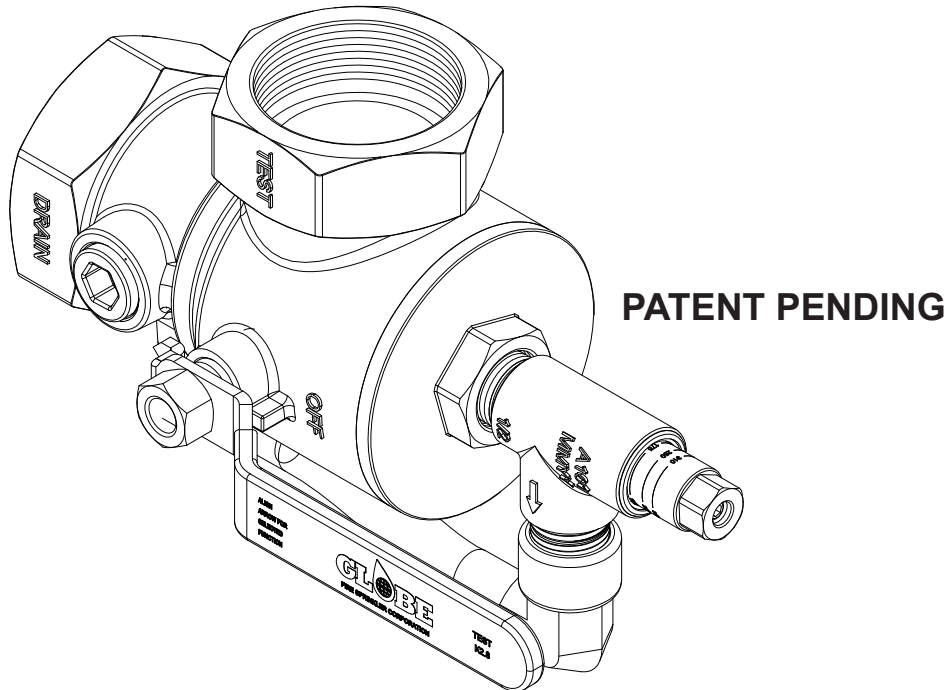


ITEM NO.	DESCRIPTION	MATERIAL	QTY.
1	1/2-14 NPT PIPE PLUG	STEEL	1
2	3-WAY TEST AND DRAIN BODY	BRONZE	1
3	UTD TEST AND DRAIN BALL	STAINLESS STEEL	1
4	UTD TEST AND DRAIN HANDLE STEM	STAINLESS STEEL	1
5	3-WAY TEST AND DRAIN STEM O-RING	EDPM	2
6	3-WAY TEST AND DRAIN COVER	BRONZE	1
7	UTD TEST AND DRAIN TEFLON SEAL	TEFLON	2
8	SIGHT GLASS	LEXAN	3
9	3-WAY RED HANDLE	EDPM	1
10	RETAINING NUT	STAINLESS STEEL	1

**FIGURE 2: MODEL UTD INSTALLATION DIMENSIONS**



Valve Size NPT	Nominal Installation Dimensions Inches (mm)				
	A	B	C	D	E
3/4" (DN20)	0.65 (17)	2.15 (55)	2.83 (72)	4.56 (116)	4.14 (105)
1" (DN25)	3.22 (82)	2.42 (61)	2.62 (67)	5.29 (134)	4.16 (106)
1 1/4" (DN32)	3.62 (92)	2.36 (60)	3.54 (90)	5.74 (146)	4.8425 (123)
2" (DN50)	4.41 (112)	2.83 (60)	3.78 (96)	6.72 (159)	6.02 (153)



**FIGURE 3: MODEL UTD WITH MODEL ARV ADJUSTABLE PRESSURE RELIEF VALVE**

Note:

When ordering Model UTD with Model ARV Adjustable Relief Valve, all fittings and tubing are included and preassembled, to tie the discharge of the relief valve to the drain port on the Model UTD Test and Drain (2" Model UTD Test and Drain shown as reference).

Valve Size NPT	Nominal Valve Weights			Part Number
	End Con- nections	Relief Valve	Weight lbs (kg)	
3/4" (DN20)	Thread X Thread	With Relief	2.80 (1.27)	311728
	Thread X Thread	Without Relief	2.25 (1.02)	311718
1" (DN25)	Thread X Thread	With Relief	3.29 (1.49)	311729
	Thread X Thread	Without Relief	2.74 (1.24)	311704
1 1/4" (DN32)	Thread X Thread	With Relief	4.41 (2.00)	311730
	Thread X Thread	Without Relief	3.85 (1.75)	312368
	Groove X Groove	With Relief	3.87 (1.76)	311732
	Groove X Groove	Without Relief	3.31 (1.50)	311989
2" (DN50)	Thread X Thread	With Relief	7.14 (3.24)	311731
	Thread X Thread	Without Relief	6.48 (2.93)	311708
	Groove X Groove	With Relief	6.34 (2.87)	311733
	Groove X Groove	Without Relief	5.53 (2.50)	312429

## MODEL UTD CARE AND MAINTENANCE

The Globe Model UTD Test and Drain does not require any regularly scheduled maintenance.

System testing in accordance with NFPA 25 or other applicable Standard shall be followed to insure the integrity of the entire system, including alarm functions as well as other system components.

The following procedures shall be performed, as needed, to conduct a waterflow alarm test of the flow switch, a drain test to verify adequate water supply, or to drain a section of the sprinkler system.

Where impairments or deficiencies are found, they must be corrected in accordance with NFPA25 or other applicable Standard.

When conducting a Waterflow Alarm Test, Flow Test (Main Drain Test), or draining of the system, position arrow (opposite the handle location near the stem of the valve) to the appropriate labeled function on the body of the valve.

## MODEL ARV RELIEF VALVE SETTING PROCEDURE

The Globe 1/2 inch Model ARV, Adjustable Pressure Relief Valve, is factory set to relieve at a pressure of approximately 185 psi (12.5 bar).

The Pressure Relief Valve may be adjusted to relieve at a higher pressure in accordance with the requirements of NFPA Standards or the authority having juris-

dition. The typical relief pressure point is nominal 10 psi (.7 bar) above the expected normal system pressure.

To reset the Model ARV pressure relief valve, use an 8 inch adjustable crescent wrench. Rotate the hex cap clockwise for a higher pressure setting or counter-clockwise for a lower pressure setting. Use the lines on the stem for an approximate relief pressure setting. One full turn of the hex cap will result in approximately 25 psi increase or decrease.

To verify the new setting of the Model ARV relief valve, use a small hydrostatic pump attached to the supply. Increase the pressure at the relief valve to 10 psi above the expected normal system pressure. Readjust the ARV as needed to maintain approximately 10 psi higher relief setting.

## ORDERING INFORMATION

### MODEL UTD TEST AND DRAIN

Specify: MODEL UTD TEST AND DRAIN WITH RELIEF VALVE, TXT, SIZE (3/4", 1", 1 1/4", or 2")

PN:

3/4" (DN20).....	311728
1" (DN25).....	311729
1 1/4"(DN32).....	311730
2" (DN50).....	311731

Specify: MODEL UTD TEST AND DRAIN WITH RELIEF VALVE, GXG, SIZE (1 1/4", or 2")

1 1/4"(DN32).....	311732
2" (DN50).....	311733

Specify: MODEL UTD TEST AND DRAIN, TXT, SIZE (3/4", 1", 1 1/4", or 2") PN:

3/4"(DN20).....	311718
1"(DN25).....	311704
1 1/4"(DN32).....	312368
2"(DN50).....	311708

Specify: MODEL UTD TEST AND DRAIN, GXG, SIZE (1 1/4", or 2")

1 1/4"(DN32).....	311989
2" (DN50).....	312429

NOTE:

Metric threads for the inlet and outlet of the valve are available upon request. Inform Customer Service at time of order.

## GLOBE® PRODUCT WARRANTY

Globe agrees to repair or replace any of its own manufactured products found to be defective in material or workmanship for a period of one year from date of shipment.

For specific details of our warranty please refer to Price List Terms and Conditions of Sale (Our Price List).

4077 Airpark Dr.  
Standish, MI 48658  
Ph. 989-846-4583

Technical Support  
1-800-248-0278  
techservice@globesprinkler.com

www.globesprinkler.com

