



MAIN**GUARD**TM

#77-Hybrid | Sampling Station & Blow-off

- Hybrid station with 2" blow-off and stainless sample port for bac-T collection
- Non-draining to avoid contamination of bac-T sample
- Non-freezing with the use of Kupferle's battery-powered evacuation pump (EEP)
- Sampling point is 3/8" unthreaded stainless steel
- 2" FIP inlet and outlet with 2" stainless ball valve on flush pipe
- Pressure gauge on operating pipe to detect water in event of O-ring failure
- Housed in locking UV resistant enclosure



All Kupferle sampling stations are non-draining to avoid contamination of samples. With the use of our EEP (Electric Evacuation Pump) utilities can pump the unit dry to avoid freezing.

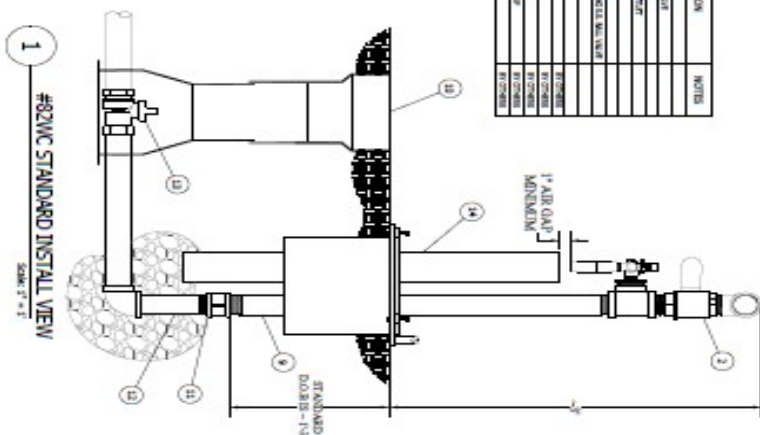
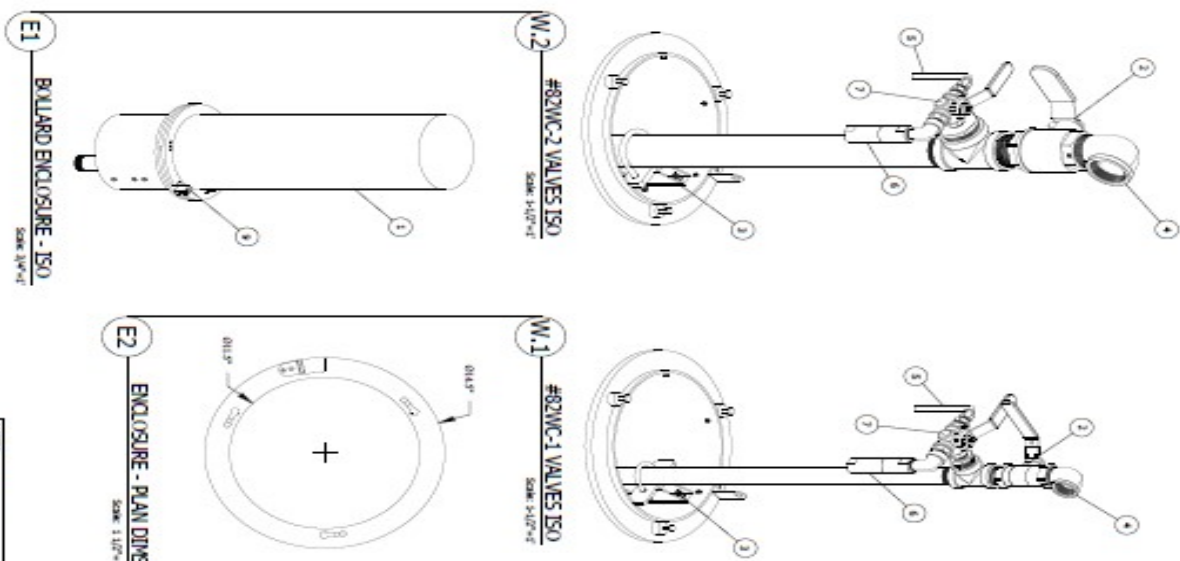


Kupferle
Saint Louis, Missouri
800-231-3990
hydrants.com



#77-Hybrid | Sampling Station & Blow-off

#82WC SAMPLING STATION - GENERAL SPECIFICATION



ITEM	DESCRIPTION	NOTES
1	1. A. 10000000.00000000	
2	2. A. 10000000.00000000	
3	3. A. 10000000.00000000	
4	4. A. 10000000.00000000	
5	5. A. 10000000.00000000	
6	6. A. 10000000.00000000	
7	7. A. 10000000.00000000	
8	8. A. 10000000.00000000	
9	9. A. 10000000.00000000	
10	10. A. 10000000.00000000	
11	11. A. 10000000.00000000	
12	12. A. 10000000.00000000	
13	13. A. 10000000.00000000	
14	14. A. 10000000.00000000	

#82WC SAMPLING STATION shall be installed in the following location(s)

#3AWT Free Proof Sampling Station shall be a standard 11" depth of entry, with a NPT inlet and FNPT thread blow-off discharge according to the site specification. Station shall consist installed with a Stainless Steel sampling port plumbed below main discharge for sampling. A main Stainless Steel blow-off valve shall control the flow of water for the main discharge. The unit shall be fully enclosed in UV resistant flexible cover allowing for 360 degrees access to the station and when open, the station shall require no key for operation. All water flow must be thru Stainless Steel and all operational parts shall be verifiable from above ground without any digging. A temperature activated water relief valve shall maintain a controlled water temperature with the university by opening the valve port when the water temperature reaches 35°F and remain open until warmer water reaches the port, thus creating a non-freezing environment. The freeze proof cycle shall repeat as often as necessary to prevent freezing. Station shall be set in crushed stone to allow for drainage of hydraulic freeze protection valve. Decommissioning of the AWTVA should be followed after installing the system.

Unit model # shall be ~~SWC-2-4-A-A-BL~~ as specified in the product ordering guide as manufactured by Knapheide Foundry Company, St. Louis, MO, or approved equal.

NOTES

3. PLEASE LIST BEFORE INSTALLATION OF THE HYDRAUNT
4. GROUND LINE PAVEMENT
5. IN CONNECTION WITH THE BUILDING SHOULD BE PREPARED FOR ADDITIONAL ASSISTANCE TO CONNECTION. EMPLOYED RECOMMENDING SPECIFICATIONS ALL INFORMATION FROM THE
6. FITTINGS WITH ELECTRICAL SHALL THE FOLLOWING BEFORE THE TO LIST AND REPAIRING THE PARTS.

NOV 1967	CHANGED TO 104210-4607
TEL	001042104607 - NOV
DATE	87-11-23

WORK (EVALUATION SHEET)

Product Drawing Data												
ITEM #	1	2	3	4	5	6	7	8	9	10	11	12
DESCRIPTION												
QTY												
UNIT												
1	1	2	3	4	5	6	7	8	9	10	11	12
2	1	2	3	4	5	6	7	8	9	10	11	12
3	1	2	3	4	5	6	7	8	9	10	11	12
4	1	2	3	4	5	6	7	8	9	10	11	12
5	1	2	3	4	5	6	7	8	9	10	11	12
6	1	2	3	4	5	6	7	8	9	10	11	12
7	1	2	3	4	5	6	7	8	9	10	11	12
8	1	2	3	4	5	6	7	8	9	10	11	12
9	1	2	3	4	5	6	7	8	9	10	11	12
10	1	2	3	4	5	6	7	8	9	10	11	12
11	1	2	3	4	5	6	7	8	9	10	11	12
12	1	2	3	4	5	6	7	8	9	10	11	12
13	1	2	3	4	5	6	7	8	9	10	11	12
14	1	2	3	4	5	6	7	8	9	10	11	12
15	1	2	3	4	5	6	7	8	9	10	11	12
16	1	2	3	4	5	6	7	8	9	10	11	12
17	1	2	3	4	5	6	7	8	9	10	11	12
18	1	2	3	4	5	6	7	8	9	10	11	12
19	1	2	3	4	5	6	7	8	9	10	11	12
20	1	2	3	4	5	6	7	8	9	10	11	12
21	1	2	3	4	5	6	7	8	9	10	11	12
22	1	2	3	4	5	6	7	8	9	10	11	12
23	1	2	3	4	5	6	7	8	9	10	11	12
24	1	2	3	4	5	6	7	8	9	10	11	12
25	1	2	3	4	5	6	7	8	9	10	11	12
26	1	2	3	4	5	6	7	8	9	10	11	12
27	1	2	3	4	5	6	7	8	9	10	11	12
28	1	2	3	4	5	6	7	8	9	10	11	12
29	1	2	3	4	5	6	7	8	9	10	11	12
30	1	2	3	4	5	6	7	8	9	10	11	12
31	1	2	3	4	5	6	7	8	9	10	11	12
32	1	2	3	4	5	6	7	8	9	10	11	12
33	1	2	3	4	5	6	7	8	9	10	11	12
34	1	2	3	4	5	6	7	8	9	10	11	12
35	1	2	3	4	5	6	7	8	9	10	11	12

[illegible]

OPERATIONAL NOTES

- 2) SAMPLING VALVE SHOWN IN THE OFF (FREEZE PROTECTION) POSITION.

- 3) DRAIN SHALL BE INSTALLED TO ALLOW THE FREEZE PROTECTION VALVE TO DRAIN BELOW THE FROST LINE. THE EXACT AMOUNT OF WATER DISPENSED DEPENDS ON AMBIENT AIR TEMPERATURE, MAKE UP WATER TEMPERATURE, AND DURATION OF THE COLD SPELL.
- @ 20 °F - APPROXIMATELY 13 GALLONS PER DAY
- @ -10 °F - APPROXIMATELY 42 GALLONS PER DAY

- 4) THE WARM CLIMATE MODEL IS INTENDED TO USE THE FREEZE PROTECTION FEATURE TO PREVENT ANY SORT OF CRITICAL DAMAGE TO THE SAMPLING STATION. THE WATER FLOW PATH FOR THE FREEZE PROTECTION VALVE REFLECTS THIS.

- 3) EXTREME CONDITIONS CAN AFFECT THE STATION ADVERSELY AND IF LOCATED IN AN AREA WHERE MOVING WATER FREQUENTLY FREEZES OR THE SUPPLY WATER BELOW GROUND MIGHT NOT REACH 40°F. KOPFLE RECOMMENDS A DRY BARREL STYLE SAMPLING STATION.

[illegible]