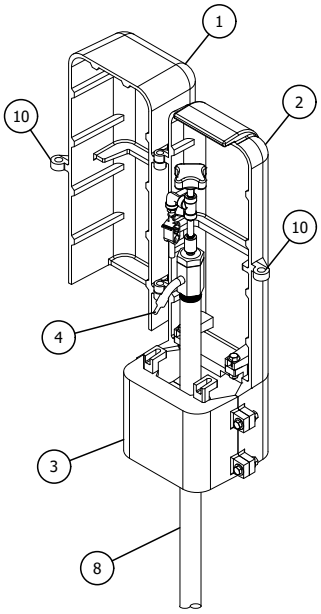
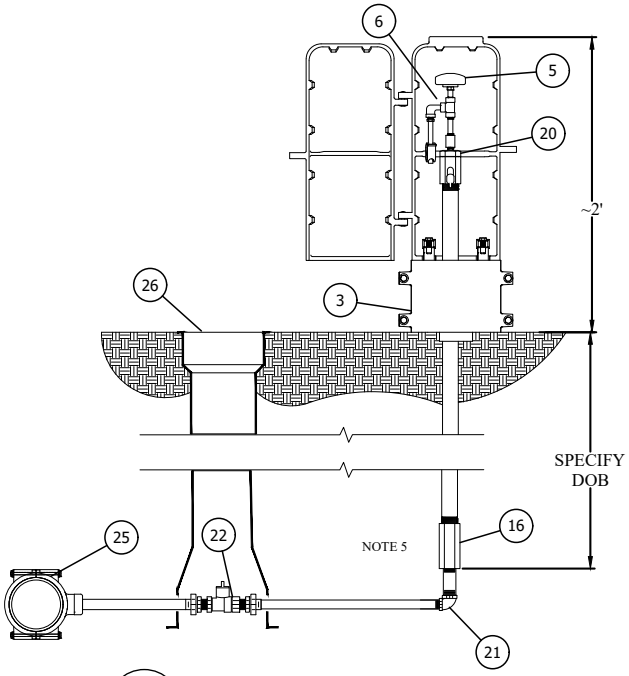
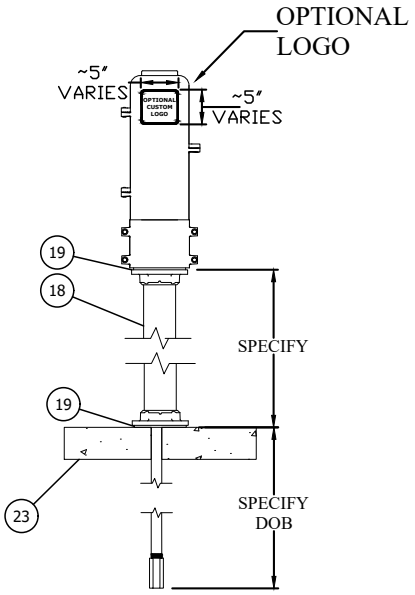
#24 SAMPLING STATION SPEC SHEET



A ISO VIEW
Scale: 1"=1'-0"



1 #24 INSTALL DETAIL
Scale: 3/4"=1'-0"



B PEDESTAL OPTION
Scale: 1/2"=1'-0"

GENERAL SPECIFICATIONS	
MAXIMUM OPERATING PRESSURE	220 PSI
STATION MATERIALS:	303, 304, 316, & 18-8 STAINLESS STEEL, BUNA-N
ENCLOSURE MATERIAL:	CAST 319 ALUMINUM
ENCLOSURE COLOR:	GREEN
WETTED MATERIALS:	BUNA-N RUBBER, 303, 304, 316 & 18-8 STAINLESS STEEL
DEPTH OF BURY:	SPECIFY
WEIGHT:	~35 LBS @ 3' DOB
ADDITIONAL PEDESTAL WEIGHT:	~38 LBS FOR 3' PEDESTAL
CUSTOM LOGO:	
NSF CERT:	NSF 61

ITEM	DESCRIPTION	NOTES
1	88 FRONT DOOR (COVER A)	
2	88 REAR DOOR (COVER B)	
3	88 BASE	2 PIECES
4	1/2" UNTHREADED NOZZLE	
5	OPERATING HANDLE	
6	DRAIN TUBE	
7	TUBING CLAMP	
8	1" S.S. BARREL	
9	S.S. OPERATING ROD	NOT SHOWN
10	LOCKING HOLE	
11	VALVE CORE	NOTE 5
12	VALVE SEAT CARRIER	NOTE 5
13	OPERATING SCREW	NOTE 5
14	VALVE CORE O-RING	NOTE 5
15	WATER PATH	
16	VALVE BODY	NOTE 5
17	INLET HOLES	
18	PEDESTAL	
19	PEDESTAL GASKET	
20	TOP CAP	
21	ELBOW	BY OTHERS
22	CURBSTOP	BY OTHERS
23	CONCRETE	BY OTHERS
24	ANCHORS	BY OTHERS
25	SADDLE CLAMP	BY OTHERS
26	VALVE BOX	BY OTHERS

Sampling Station shall be _____' bury, with a 1" FIP inlet, and 1/2" unthreaded blow off and sampling bibb. Station shall be enclosed in a lockable, cast aluminum box with hinged openings.

When open, the station shall require no key for operation, and all water flow shall pass thru an all stainless steel waterway. All operational components shall be of stainless steel and serviceable / replaceable from above ground with no digging or excavation needed.

The operating screw shall be located undergound and inside of the valve body. The operating screw, when turned via the handle, shall raise and lower a valve seat carrier, for controlling the flow of water through the hydrant. The station shall utilize an o-ring for sealing of the valve core to valve seat carrier to shut off the flow of water. The operating rod shall be supported on both ends, via the top cap and the valve seat carrier, to prevent the station from vibrating/pulsing under high pressures and to ensure a smooth sample stream.

When open, the water shall flow through the 6 openings of the valve seat carrier, up and around the valve core, up the stand pipe and out thorugh the nozzle.

The operating rod shall be hollow. A secondary drain port shall be located on the hollow operating rod, underneath the handle and when open shall allow for evacuation of any water remaining inside the station, via pump or compressed air blow off, to prevent freezing.

The station shall be model #24 as manufactured by Kupferle Water Solutions, St. Louis MO. 63026 or approved equal.

Notes:
1.) If the color shall be any color other than green, check with the manufacturer for color options, and specify accordingly.
2.) When installed on or with concrete, Kupferle recommends the use of a gasket or barrier between the enclosure/pedestal and the concrete surface. when purchasing the station, if concrete install is specified on the order Kupferle will provide said gasket. the enclosure clamp on the bottom of the enclosure base will fit inside a 4" pvc pipe.
3.) Prolonged exposure to strong chlorides which can be present in concrete, cleaning agents, and sometime even potable water can lead to possible enclosure corrosion. regular maintenance and drying the station after use are the best methods for optimal station longevity.
4.) In corrosive solids the buried pipe should be prepped for additional resistance to corrosion. Kupferle recommends spraying all underground piping and fittings with bituminous spray tar, allowing proper time to dry, and then wrapping the parts.
5.) Reference valve details on page 2 for a more detailed unterstanding of the #24's superior valve, screw, seat and drain design.

DD/MM/YY	ISSUED FOR ...
DATE	STATUS / REVISION

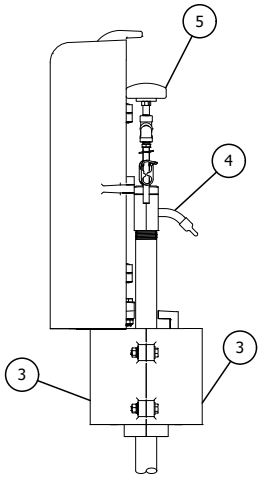
	INITIALS	DATE
DRAWN	KJW	4/17/24
APPROVED	DCL	05/10/24
MODIFIED	ADC	01/05/26

#24 SAMPLING STATION | SHEET SIZE: A | SCALE: 3/4"=1'-0"

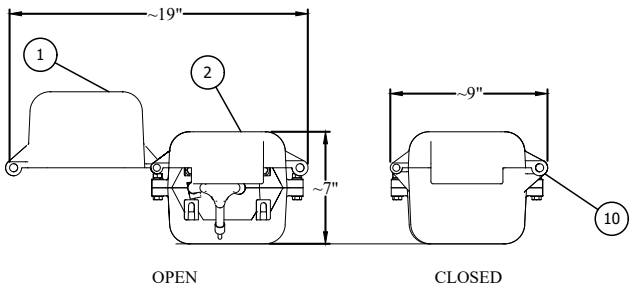
KUPFERLE WATER SOLUTIONS
1291 N HIGHWAY DR
ST. LOUIS, MO 63026
1-800-231-3990
FAX 314-231-2820
www.hydrants.com

#24 SAMPLING STATION SPEC SHEET

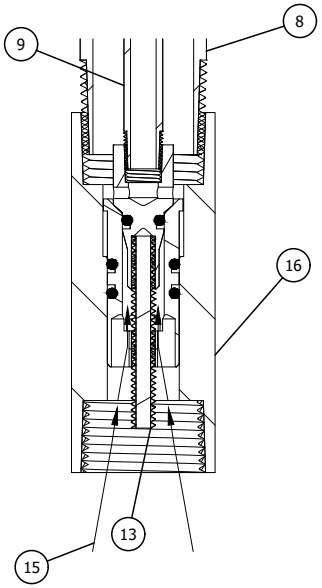
ITEM	DESCRIPTION	NOTES
1	88 FRONT DOOR (COVER A)	
2	88 REAR DOOR (COVER B)	
3	88 BASE	2 PIECES
4	1/2" UNTHREADED NOZZLE	
5	OPERATING HANDLE	
6	DRAIN TUBE	
7	TUBING CLAMP	
8	1" S.S. BARREL	
9	S.S. OPERATING ROD	
10	LOCKING HOLE	
11	VALVE CORE	
12	VALVE SEAT CARRIER	
13	OPERATING SCREW	
14	VALVE CORE O-RING	
15	WATER PATH	
16	VALVE BODY	
17	INLET HOLES	
18	PEDESTAL	NOT SHOWN
19	PEDESTAL GASKET	NOT SHOWN
20	TOP CAP	
21	ELBOW	NOT SHOWN
22	CURBSTOP	NOT SHOWN
23	CONCRETE	NOT SHOWN
24	ANCHORS	NOT SHOWN
25	SADDLE CLAMP	NOT SHOWN
26	VALVE BOX	NOT SHOWN



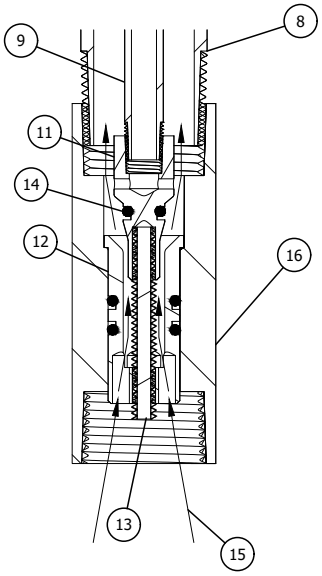
2.1 SIDE VIEW
Scale: 1"=1'-0"



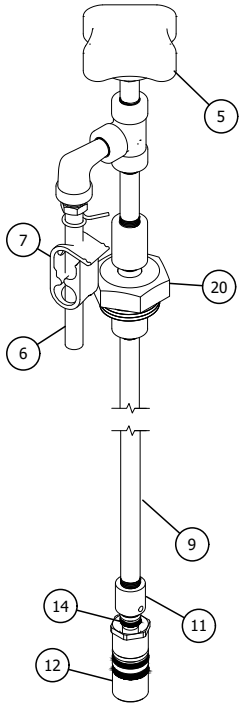
2.2 TOP/PLAN VIEWS
Scale: 1"=1'-0"



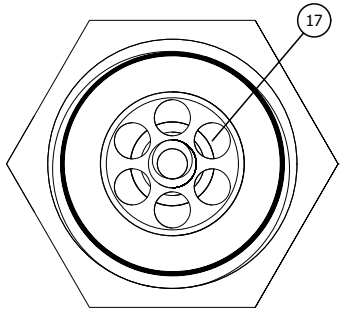
2.3 VALVE CLOSED
Scale: 6"=1'-0"



2.4 VALVE OPEN
Scale:6"=1'-0"



2.5 REMOVEABLE ASSEMBLY
Scale: 3"=1'-0"



2.6 INLET (BOTTOM VIEW)
Scale: 6"=1'-0"

DD/MM/YY	ISSUED FOR ...
DATE	STATUS / REVISION

	INITIALS	DATE
DRAWN	KJW	4/17/24
APPROVED	DCL	05/10/24
MODIFIED	ADC	01/05/26

#24 SAMPLING STATION

SHEET SIZE: A

SCALE: 3/4"=1'-0"

KUPFERLE WATER SOLUTIONS

1291 N HIGHWAY DR
ST. LOUIS, MO 63026
1-800-231-3990
FAX 314-231-2820
www.hydrants.com