



CARSON 1527-18 BCF BOX. FLUSH COMPOSITE OR DUCTILE IRON COVER (CARSON, FIBRELYTE FL1527, OR NICOR B65). SEE NOTE 4.

2"-180° OPEN PATTERN RETURN BEND

2" BEEHIVE STRAINER

AIR GAP: MIN. 2 1/2 x PIPE DIA. MAX. 18"

1" GALV. IRON PIPE TO FIT

2"x1" REDUCER AND TWO 2"-90° BENDS AS SWING JOINT

SWING JOINT DETAIL

VERTICAL 90° BEND

HORIZONTAL 90° BEND

12" MIN.

1" UNION

1" GALV. IRON NIPPLES

1"-90° BEND

2" GALV. IRON PIPE FIELD LOCATE

6" MIN.

1" AIR RELEASE VALVE ASSEMBLY WITH VACUUM CHECK VALVE, VAL-MATIC MODEL NO. 15A.3, CRISPIN MODEL NO. PL10, APCO MODEL NO. 50A, OR APPROVED EQUAL. (SEE NOTE 5).

1" UNION

1" BRONZE GATE VALVE, THREAD RED-WHITE VALVE CORP. FIG. NO. 280, OHIO BRASS #2500.

1" TYPE "K" SOFT COPPER TUBING

COUPLING-COPPER TO MALE NATIONAL PIPE THREAD (NPT) FORD C-84-44, MUELLER H15428.

EPOXY OR NYLON COATED HIGH TENSILE D.I. SERVICE SADDLE W/STAINLESS STEEL STRAP, 1" AWWA TAPER (CC) TAP. FORD FC101, OR EQUAL, SIZE AS REQUIRED.

WASHED GRAVEL PASSING 1 1/2" AND RETAINED ON 1/4" MESH

1" BRASS NIPPLES

CORPORATION STOP, 1" AWWA TAPER (CC) INLET BY 1" MALE IRON PIPE THREAD OUTLET PAIRED WITH ELL COUPLING, 1" FEMALE IRON PIPE THREAD INLET BY 1" PACK JOINT (COMPRESSION FITTING) FOR COPPER OUTLET. FORD FB400-4-NL AND FORD L14-44-NL RESPECTIVELY, OR APPROVED EQUALS.

NOTES:

1. ALL FITTINGS TO BE BRASS OR COPPER FROM WATER MAIN TO 1" AIR RELEASE VALVE ASSEMBLY.
2. 2" GALVANIZED PIPE ABOVE GRADE TO BE PAINTED WITH 2 COATS RUSTOLEUM HIGH GLOSS WHITE PAINT, OR APPROVED EQUAL.
3. AIR RELEASE VALVE ASSEMBLY MUST BE INSTALLED AT HIGHEST POINT OF LINE. IF HIGH POINT FALLS IN A LOCATION WHERE ASSEMBLY CANNOT BE INSTALLED, PROVIDE ADDITIONAL DEPTH OF LINE TO CREATE HIGH POINT AT A LOCATION WHERE ASSEMBLY CAN BE INSTALLED.
4. LOCATE AIR RELEASE VALVE ASSEMBLY METER BOX OUTSIDE OF TRAFFIC AREAS, BEHIND CURB. IN SIDEWALKS AND AREAS WITH VEHICULAR TRAFFIC, USE OLYMPIC FOUNDRY SM-30 CAST IRON BOX & COVER, OR APPROVED EQUAL.
5. AIR RELEASE VALVE ASSEMBLY SHALL HAVE A MECHANISM TO PREVENT AIR FROM RE-ENTERING THE SYSTEM IN VACUUM CONDITIONS.
6. WHEN REQUIRED BY THE UTILITY, USE AN AIR AND VACUUM RELEASE VALVE ASSEMBLY (VAL-MATIC MODEL NO. 201C, CRISPIN MODEL NO. UL10, APCO MODEL NO. 143-C, OR APPROVED EQUAL) WITH CARSON INDUSTRIES 1730-18 BCFXL METER BOX AND 1730 COVER IN LIEU OF AN AIR RELEASE VALVE ASSEMBLY.



City of Bellevue

WATER UTILITY

TITLE

1" AIR RELEASE VALVE ASSEMBLY