



**BY PASS SIZE CHART**

METER SIZE	MAIN-LINE	BY PASS
3"	3"D.I.	1 1/2" COPPER
4"	4"D.I.	1 1/2" COPPER
6"	6"D.I.	2" COPPER

**NOTES:**

1. SIZE OF MAIN D.C.V.A. AND FITTINGS SHALL EQUAL SERVICE LINE SIZE. BYPASS D.C.V.A. AND FITTINGS SHALL BE SIZED AS SHOWN IN CHART.
2. MINIMUM CLEARANCES:
  - 12" BETWEEN EACH D.C.V.A.
  - 12" BETWEEN D.C.V.A. AND SIDE OF VAULT.
  - 12" BETWEEN D.C.V.A. AND VAULT FLOOR.
  - 24" SOIL COVER OVER SERVICE LINE.
3. INSTALL PLUGS IN ALL TEST COCKS.
4. CITY OF BELLEVUE WATER QUALITY DIVISION MUST TEST AND CERTIFY DEVICES BEFORE USE.
5. D.C.V.A.'s SHALL BE CENTERED IN VAULT.
6. WHERE ACCESS OPENING DOES NOT EXPOSE SHUT OFF VALVES, MIN. 18" CLEARANCE SHALL BE REQUIRED BETWEEN TOP OF VALVE AND UNDERSIDE OF VAULT COVER.

- ① FLEX COUPLING , ROCKWELL 441 OR EQUAL. \*
- ② D.I. PIPE, P.E. X FL., LENGTH TO FIT. \*
- ③ STATE APPROVED INTERNALLY LOADED DOUBLE CHECK VALVE ASSEMBLY, COMPLETE WITH (2) FULL FLOW RESILIENT SEATED SHUT-OFF VALVES AND TEST COCKS.
- ④ DOUBLE STRAP SERVICE SADDLE, ROMAC 202S WITH IPS TAP, OR EQUAL. \*
- ⑤ COUPLING, OUTSIDE IRON PIPE THREAD TO COPPER COMPRESSION CONNECTION, MUELLER H-15428, OR EQUAL. \*
- ⑥ COPPER TUBING, TYPE K. \*
- ⑦ 1/4 BEND COUPLING, COPPER TO COPPER, MUELLER H-15526, OR EQUAL. \*
- ⑧ COUPLING, COPPER COMPRESSION CONNECTION BY FEMALE IRON PIPE THREAD, MUELLER H-15451, OR EQUAL. \*
- ⑨ CONCRETE VAULT WITH AT LEAST ONE (1) 3'x3' DIAMOND PLATE DOOR (H2O LOADING, LOCKING LID) - COVER TO READ "WATER". SIZE VAULT TO PROVIDE MINIMUM CLEARANCES LISTED IN NOTE 2.
- ⑩ ADJUSTABLE PIPE STANCHION, BOLTED TO FLOOR.
- ⑪ DRAIN, SLOPE TO DAYLIGHT WHERE APPLICABLE (DO NOT CONNECT TO SANITARY SEWER).

\* TYPICAL, EACH SIDE OF D.C.V.A.



**City of  
Bellevue**

**WATER UTILITIES**

**TITLE**

**3" TO 6" DOMESTIC DOUBLE  
CHECK VALVE ASSEMBLY  
FOR CONTINUOUS SUPPLY  
(OUTSIDE INSTALLATION)**

**NO. W-42**