

MATERIALS REQUIRED FOR INSTALLATION OF 12" REGULATOR

<u>ITEM</u>	<u>REQ'D</u>	<u>SIZE</u>	<u>DESCRIPTION</u>
1	1	12"	CLAYTON REGULATOR <u>OR</u> OCV REGULATOR <u>OR</u> EQUAL, FLANGED
2	1	12"	ROSS STRAINER, FLANGED
3	1	2"	CLAYTON REGULATOR <u>OR</u> OCV REGULATOR <u>OR</u> EQUAL, SCREWED <u>OR</u> FLANGED
4	1	2"	ROSS STRAINER, FLANGED
5	2	12"	O.S. & Y. GATE VALVE, FLANGED
6	1	12"	GATE VALVE, FLANGED <u>OR</u> RETAINED MECHANICAL JOINT WITH HAND WHEEL
7	2	2"	GATE VALVE, RETAINED MECHANICAL JOINT
8	2	2"	O.S. & Y. BRASS GATE VALVE, SCREWED
9	2	12" x 12" x 12"	TEE, RETAINED MECHANICAL JOINT
10	2	12"	90 DEGREE COMPACT ELBOW, RETAINED MECHANICAL JOINT x PLAIN END
11	2	12" x 12" x 4"	TEE, FLANGED
12	2	2"	90 DEGREE BRASS ELBOW, SCREWED
13	2	2"	UNIONS BRASS, SCREWED
14	2	2" x 9"	REDUCING FLANGE, SCREWED
15	2	1/4" x 4"	BRASS NIPPLE, SCREWED
16	2	1/4"	BALL VALVE BRASS, SCREWED
17	1	2" x 2" x 2"	BRASS TEE, SCREWED
18	1	2" x 6"	BRASS NIPPLE, SCREWED
19	1	2"	BRASS GATE VALVE, SCREWED
20	1	2"	BRASS PLUG, SCREWED

<u>ITEM</u>	<u>REQ'D</u>	<u>SIZE</u>	<u>DESCRIPTION</u>
21	2	2"	COMPANION FLANGE
<u>NOTE: (4) 2" COMPANION FLANGES REQ'D IF FLANGED 2" REGULATOR IS USED</u>			
<u>NOTE: PIPE LENGTHS ARE APPROXIMATE. CUT TO SUIT</u>			
22	13-1/2" LONG	12"	CLASS 52 DUCTILE IRON PIPE PLAIN END x PLAIN END
23	13-1/2" LONG	12"	CLASS 52 DUCTILE IRON PIPE PLAIN END x PLAIN END
24	9" LONG	12"	CLASS 52 DUCTILE IRON PIPE FLANGED SPACER
25	84-1/2" LONG	12"	CLASS 52 DUCTILE IRON PIPE FLANGED x PLAIN END
26	84-1/2" LONG	12"	CLASS 52 DUCTILE IRON PIPE FLANGED x PLAIN END
27	149" LONG <u>OR</u> 1 PIPE LENGTH	12"	CLASS 52 DUCTILE IRON PIPE FLANGED x PLAIN END <u>OR</u> PLAIN END x PLAIN END TO MATCH ITEM 6
28	149" LONG <u>OR</u> 1 PIPE LENGTH	12"	CLASS 52 DUCTILE IRON PIPE FLANGED x PLAIN END <u>OR</u> PLAIN END x PLAIN END TO MATCH ITEM 6
29	(4) 2-5/16" LONG	2"	BRASS CLOSE NIPPLE
30	6" LONG	2"	BRASS PIPE
31	54-3/4" LONG	2"	BRASS PIPE
32	12" LONG	2"	BRASS PIPE
33	6" LONG	2"	BRASS PIPE
34	6" LONG	2"	BRASS PIPE
35	12" LONG	2"	BRASS PIPE
36	120	7/8" x 3-3/4"	MACHINE BOLTS, STAINLESS STEEL PER ASTM A276/A193, TYPE 304
37	120	7/8"	HEX NUTS, STAINLESS STEEL PER ASTM A276/A193, TYPE 304

<u>ITEM</u>	<u>REQ'D</u>	<u>SIZE</u>	<u>DESCRIPTION</u>
38	10	12"	RING GASKETS
39	16	5/8" x 3-1/4"	MACHINE BOLTS, STAINLESS STEEL PER ASTM A276/A193, TYPE 304
40	2	4"	RING GASKETS
41	8	5/8" x 2-3/4"	MACHINE BOLTS, STAINLESS STEEL PER ASTM A276/A193, TYPE 304
42	2	2"	RING GASKETS
<u>NOTE: (4) 2" RING GASKETS REQ'D IF FLANGED 2" REGULATOR IS USED</u>			
43	24	5/8"	HEX NUTS, STAINLESS STEEL PER ASTM A276/A193, TYPE 304
44	12	12"	RETAINED MECHANICAL JOINTS WITH ACCESSORIES
	14	12"	RETAINED MECHANICAL JOINTS WITH ACCESSORIES IF OPTIONAL SOLID SLEEVE USED
45	2	#2	VALVEBOXES SET TO GRADE FOR ITEM #7 (NOT SHOWN ON DRAWING FOR CLARITY)
46	1	12"	**OPTIONAL** RETAINED MECHANICAL JOINT SOLID SLEEVE (SHORT PATTERN)

Regulator Specifications

The regulator valve shall be a pressure reducing/pressure sustaining surge control valve of the globe type manufactured by Cla-Val Company (Series 94, CWD Reg.) or OVC Control Valves (Model No: 127-25).

The strainers shall be of the type manufactured by Ross Valve (Model No: 10B/10C).

The pressure reducing valve body and strainer body shall be either cast iron or ductile iron having a working pressure of minimum 250 psi.

All components of the pressure reducing valve assembly shall also have a minimum 250 psi working pressure rating.

The flanges of the pressure reducing valve, strainer, valves and connecting pieces shall have a working pressure of 250 psi with dimensions and drilling of all end flanges conforming to the American 125 lb. Cast Iron Flange Standard. Flanges shall be plain face with a smooth finish.

(SEE DRAWING No. 12REG)

8-4-2008