GLOBE FIRE SPRINKLER CORPORATION

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MODEL RCW SINGLE INTERLOCK PREACTION SYSTEM ELECTRIC, WET PILOT, AND DRY PILOT ACTUATION

GENERAL DESCRIPTION

The Globe Model RCW single interlock preaction system utilizes a hydraulically operated external resetting differential latching style valve designed for use where quick-opening is desired. The Model RCW valve is used as an automatic water control valve in single interlock preaction applications including; electric, wet pilot, or dry pilot actuation. The Model RCW valve serves as the primary water control valve installed in the water supply to a single interlock preaction sprinkler system incorporating automatic sprinklers with supervisory air monitoring the integrity of the system piping.

Setting of the Model RCW valve in a single interlock preaction system requires water pressure in the pressure chamber being maintained on the plunger rod. The pressure on the plunger rod forces the lever arm/roller assembly against the clapper which in turn keeps the supply water from entering the sprinkler system piping. Water pressure is provided to the pressure chamber through a connection to the main water supply at a point upstream of the system main control valve. This connection also supplies water pressure up to the solenoid valve; line of wet pilot sprinklers; or to a dry pilot actuator; as appropriate. In the standby condition, the valve is normally closed and will automatically activate (trip) upon the activation of the detection system, which may be electrical or mechanical in nature depending on the type of system, as a result of a fire condition. The RCW valve may also be operated by means of a manual release, which is provided in the trim of all single interlock preaction valve trim configurations, to override the automatic detection system. Operation of a system automatic sprinkler only, will not actuate the system control valve, but will initiate a low air supervisory condition.

When heat from a fire opens a pilot sprinkler, or operates an electric device, water pressure in the pressure chamber decays resulting in the movement of the push rod assembly, releasing the lever/roller assembly from the clapper. The system water supply pressure forces the valve clapper open resulting in water flow into the system piping. Upon system activation, fire alarm signaling is provided by means of flowing water through the alarm port/intermediate chamber and associated alarm line trim. Water discharges from the automatic sprinkler once the operating element of the automatic sprinkler is activated by the heat of the fire. The flow of water activates a pressure switch which in turn notifies local alarms and/or an alarm signaling monitoring service. After the main control valve has been shut, the system drained and the detection system has been reset, the RCW single interlock preaction valve is easily set/reset by means of pushing the reset knob. The reset knob returns the clapper to the closed position, without needing to remove the cover plate of the valve.

MODEL RCW SINGLE INTERLOCK PREACTION

(Dry Pilot actuation shown as reference)

TECHNICAL DATA

Approvals

- cULus
- FM - Electric Actuation Only Single Interlock Approval Offered By FM Global

Maximum System Working Pressure (Dependent on solenoid valve selection- Standard offering 175 psi (12 Bar))

- 300 psi (20.6 Bar)- cULus/FM

End Connections

- Groove x Groove

Materials of Construction

- See Technical Datasheet GFV 200 for materials of construction for the Model RCW Valve

***Patents Pending**

MODEL RCW SINGLE INTERLOCK PREACTION ELECTRIC ACTUATION

An electric actuation trim is one optional actuation trim arrangement for the Globe Model RCW valve. With this configuration, an electric fire detection system such as heat detectors, smoke detectors or any other electrical initiating devices, connected to a fire protection releasing control panel can be used to actuate the solenoid valve on the Model RCW valve trim. System supervisory air pressure is used to ensure the integrity of the system piping. Typically this air pressure is maintained at 10 psi (0.7 bar).

Operation of one of the automatic sprinklers will not cause the control valve to operate, but will result in a low air pressure alarm signal. Only a signal from the detection system will cause the control valve to activate/trip. Water pressure is maintained in the pressure chamber and up to the normally closed solenoid valve through a restricted connection from the main water supply, taken upstream of the system main control valve. (The pressure chamber supply control valve must remain in the open position at all times when the system is in service)

Upon operation of the detection system the electric solenoid valve opens. The discharge from the solenoid valve is at a flow rate greater than that which can pass through the restriction in the pressure chamber fill line supplying the pressure chamber. This causes a drop in the water pressure in the pressure chamber. With this drop in pressure, the clapper can no longer be held in the closed position by the lever/roller assembly. The valve operates and water is introduced into the system piping. Typically the detection system is more sensitive than the automatic sprinklers and will initiate the activation of the solenoid valve before the automatic sprinklers operate. Operation of the hydraulic manual control station at the single interlock preaction valve also relieves the water pressure from the pressure chamber and operates the valve.

Note: Product offering include G5118026 solenoid valve. If other solenoid desired inform customer service at time of order.

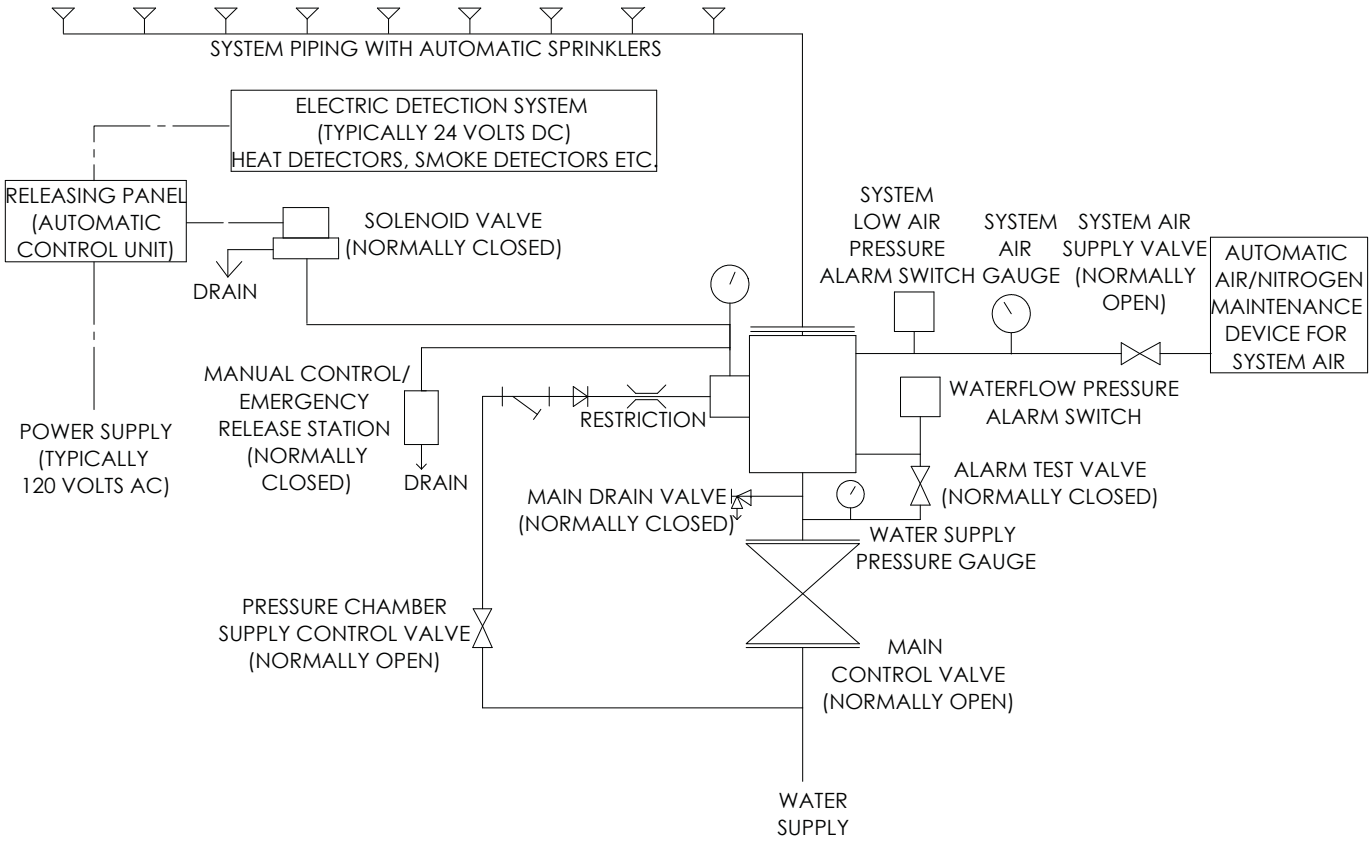
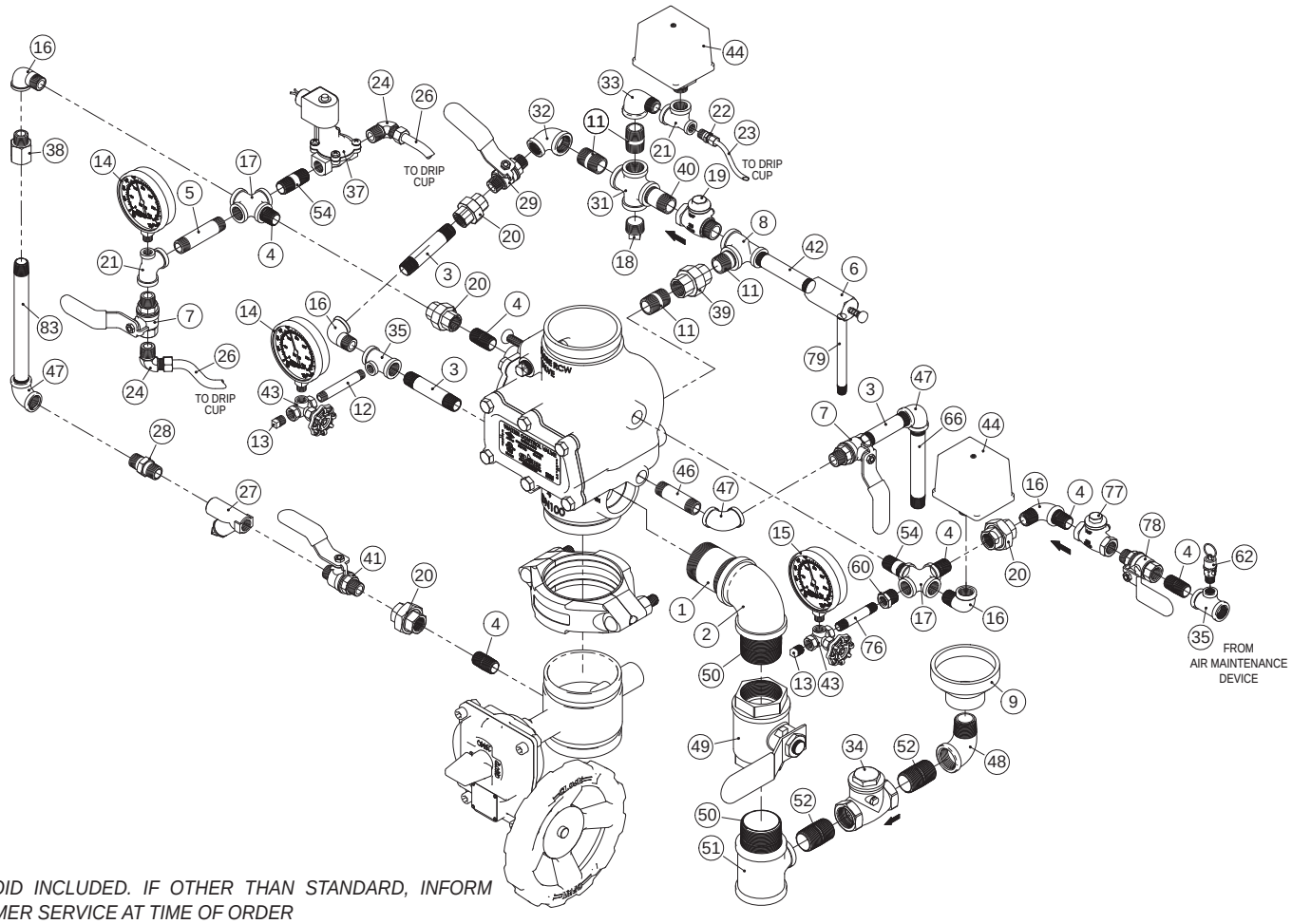


FIGURE 1:SINGLE INTERLOCK PREACTION ELECTRIC ACTUATION SCHEMATIC

FIGURE 2: 4" RCW SINGLE INTERLOCK PREACTION ELECTRIC ACTUATION TRIM ARRANGEMENT

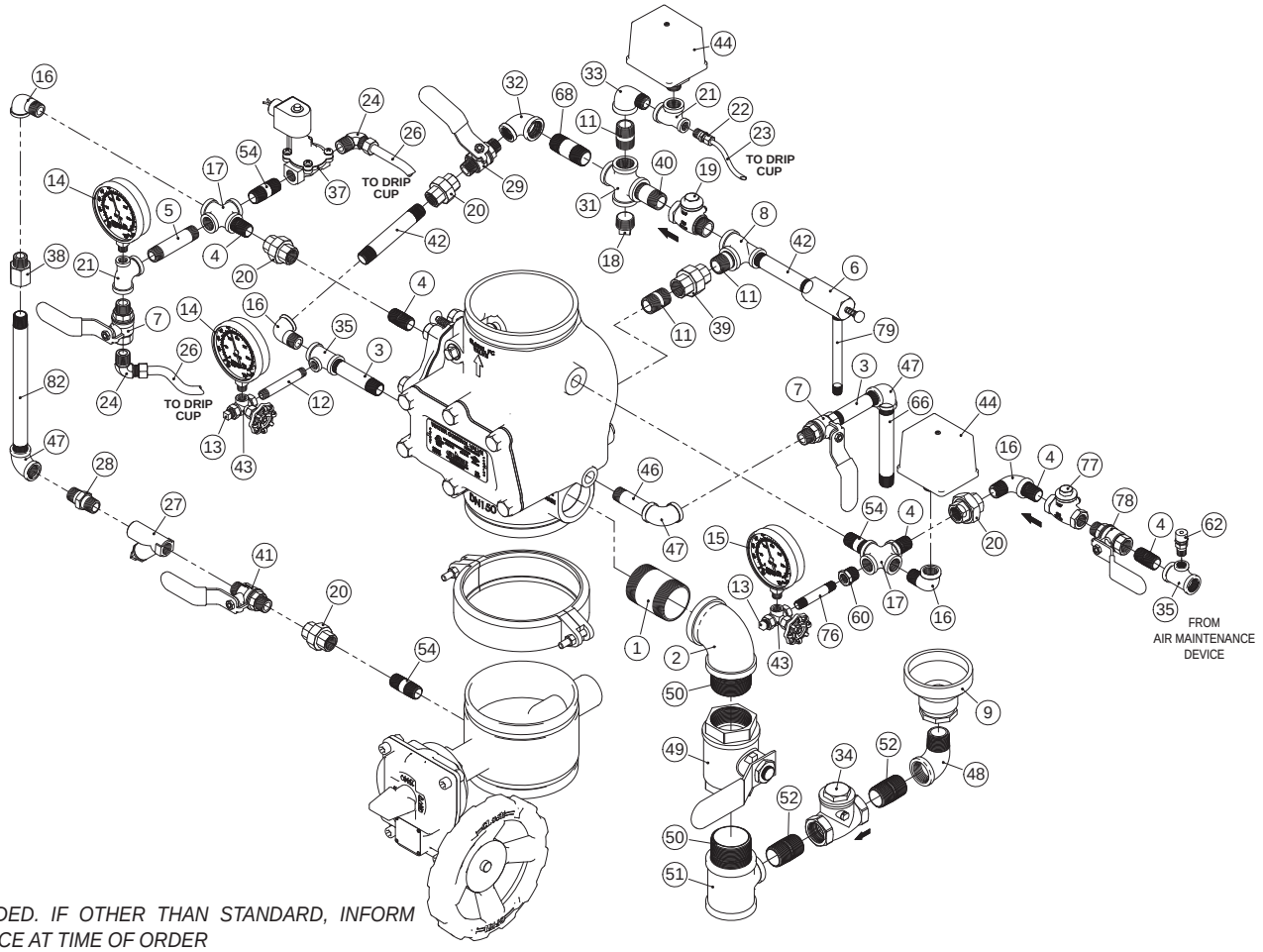


NOTE:

1 SOLENOID INCLUDED. IF OTHER THAN STANDARD, INFORM CUSTOMER SERVICE AT TIME OF ORDER

ITEM NO.	PART NO.	DESCRIPTION	QTY.	ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	310802-G	2" x 3" GALV. NIPPLE	1	32	311212-G	3/4" x 1/2" GALV. REDUCING ELBOW	1
2	311208-G	2" 90° GALV. ELBOW	1	33	311224-G	3/4" x 1/2" GALV. STREET ELBOW	1
3	310306-G	1/2" x 4" GALV. NIPPLE	3	34	311801	1" CHECK VALVE (FxF)	1
4	310301-G	1/2" x 1 1/2" GALV. NIPPLE	6	35	311314-G	1/2" x 1/2" x 1/4" GALV. TEE	2
5	310305-G	1/2" x 3 1/2" GALV. NIPPLE	1	37	G5118026	SOLENOID VALVE WITH 24V DC COIL	1
6	323300	VELOCITY CHECK VALVE	1	38	317395	1/2" RESTRICTOR	1
7	311696-R	1/2" BALL VALVE MxF - RED HANDLE	2	39	311404-G	3/4" GALV. UNION	1
8	311313-G	3/4" x 1/2" x 3/4" GALV. TEE	1	40	310401-G	3/4" x 2" GALV. NIPPLE	1
9	317398	DRIP CUP ASSEMBLY	1	41	311794-GR	1/2" BALL VALVE MxM - GREEN HANDLE	1
11	310413-G	3/4" x 1 1/2" GALV. NIPPLE	4	42	310308-G	1/2" x 5" GALV. NIPPLE	1
12	310105-G	1/4" x 3 1/2" GALV. NIPPLE	1	43	311683	1/4" 3-WAY VALVE	2
13	311001-G	1/4" GALV. PLUG	2	44	1340104	PS-10-2 ALARM SWITCH	2
14	300119-D	3-1/2" WATER GAUGE (300PSI)	2	46	310304-G	1/2" x 3" GALV. NIPPLE	1
15	300120-D	3-1/2" AIR GAUGE (250PSI)	1	47	311203-G	1/2" GALV. ELBOW	3
16	311210-G	1/2" 90° GALV. STREET ELBOW	4	48	311207-G	1" GALV. STREET ELBOW	1
17	300111-G	1/2" GALV. CROSS	2	49	311799-R	2" BALL VALVE (FxF) - RED HANDLE	1
18	311004-G	3/4" GALV. PLUG	1	50	310800-G	2" CLOSE GALV. NIPPLE	2
19	311786	3/4" CHECK VALVE MxF	1	51	311338-G	2" x 2" x 1" GALV. TEE	1
20	311403-G	1/2" GALV. UNION	4	52	310501-G	1" x 2" GALV. NIPPLE	2
21	311305-G	1/2" x 1/4" x 1/2" GALV. TEE	2	54	310302-G	1/2" x 2" GALV. NIPPLE	2
22	310161	1/4" TUBE CONNECTOR	1	60	311100-G	1/2" x 1/4" GALV. REDUCING BUSHING	1
23	M-320604	1/4" COPPER TUBE	-	62	317445	1/4" PRESSURE RELIEF VALVE (ADJ. PSI) FACTORY SET @ 45 PSI	1
24	310346	1/2" ELBOW TUBE CONNECTOR	2	66	310310-G	1/2" x 6" GALV. NIPPLE	1
26	M-320591	1/2" COPPER TUBE	-	76	310104-G	1/4" x 3" GALV. NIPPLE	1
27	317397	1/2" Y-STRAINER	1	77	311639	1/2" CHECK VALVE (FxF)	1
28	317396	1/2" SPRING LOADED CHECK VALVE	1	78	311696-GR	1/2" BALL VALVE MxF - GREEN HANDLE	1
29	311794-R	1/2" BALL VALVE MxM - RED HANDLE	1	79	310110-G	1/4" x 6" GALV. NIPPLE	1
31	300112-G	3/4" GALV. CROSS	1	83	310312-G	1/2" x 9" GALV. NIPPLE	1

FIGURE 3: 6" RCW SINGLE INTERLOCK PREACTION ELECTRIC ACTUATION TRIM ARRANGEMENT



NOTE:

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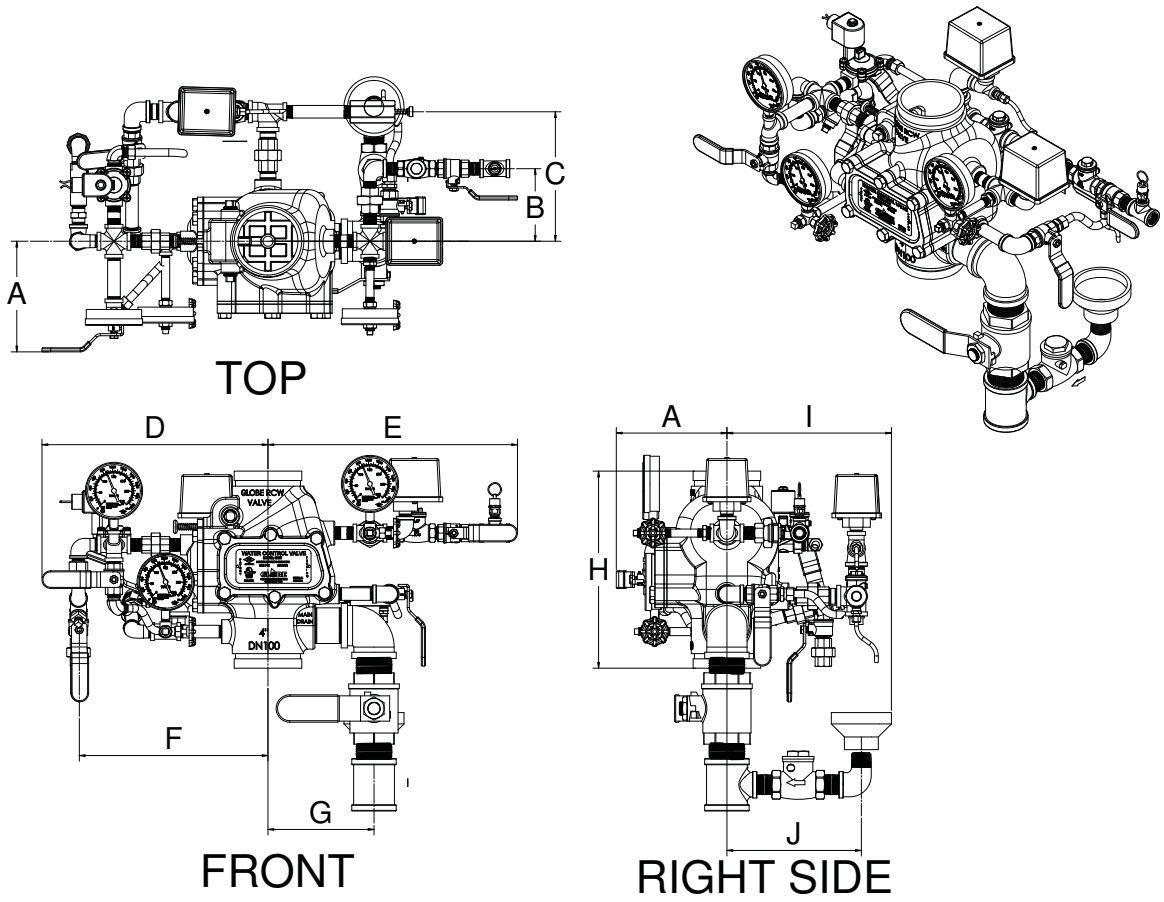
ITEM NO.	PART NO.	DESCRIPTION	QTY.	ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	310802-G	2" x 3" GALV. NIPPLE	1	33	311224-G	3/4" x 1/2" GALV. STREET ELBOW	1
2	311208-G	2" 90° GALV. ELBOW	1	34	311801	1" CHECK VALVE (FxF)	1
3	310306-G	1/2" x 4" GALV. NIPPLE	2	35	311314-G	1/2" x 1/2" x 1/4" GALV. TEE	2
4	310301-G	1/2" x 1 1/2" GALV. NIPPLE	5	37	G5118026	SOLENOID VALVE WITH 24V DC COIL	1
5	310305-G	1/2" x 3 1/2" GALV. NIPPLE	1	38	317395	1/2" RESTRICTOR	1
6	323300	VELOCITY CHECK VALVE	1	39	311404-G	3/4" GALV. UNION	1
7	311696-R	1/2" BALL VALVE MXF - RED HANDLE	2	40	310401-G	3/4" x 2" GALV. NIPPLE	1
8	311313-G	3/4" x 1/2" x 3/4" GALV. TEE	1	41	311794-GR	1/2" BALL VALVE MxM - GREEN HANDLE	1
9	317398	DRIP CUP ASSEMBLY	1	42	310308-G	1/2" x 5" GALV. NIPPLE	2
11	310413-G	3/4" x 1 1/2" GALV. NIPPLE	3	43	311683	1/4" 3-WAY VALVE	2
12	310105-G	1/4" x 3 1/2" GALV. NIPPLE	1	44	1340104	PS-10-2 ALARM SWITCH	2
13	311001-G	1/4" GALV. PLUG	2	46	310304-G	1/2" x 3" GALV. NIPPLE	1
14	300119-D	3-1/2" WATER GAUGE (300PSI)	2	47	311203-G	1/2" GALV. ELBOW	3
15	300120-D	3-1/2" AIR GAUGE (250PSI)	1	48	311207-G	1" GALV. STREET ELBOW	1
16	311210-G	1/2" GALV. STREET ELBOW	4	49	311799-R	2" BALL VALVE (FxF) - RED HANDLE	1
17	300111-G	1/2" GALV. CROSS	2	50	310800-G	2" CLOSE GALV. NIPPLE	2
18	311004-G	3/4" GALV. PLUG	1	51	311338-G	2" x 2" x 1" GALV. TEE	1
19	311786	3/4" CHECK VALVE MxF	1	52	310501-G	1" x 2" GALV. NIPPLE	2
20	311403-G	1/2" GALV. UNION	4	54	310302-G	1/2" x 2" GALV. NIPPLE	3
21	311305-G	1/2" x 1/4" x 1/2" GALV. TEE	2	60	311100-G	1/2" x 1/4" GALV. REDUCING BUSHING	1
22	310161	1/4" TUBE CONNECTOR	1	62	317445	1/4" PRESSURE RELIEF VALVE (ADJ.PSI) FACTORY SET @ 45 PSI	1
23	M-320604	1/4" COPPER TUBE	-	66	310310-G	1/2" x 6" GALV. NIPPLE	1
24	310346	1/2" ELBOW TUBE CONNECTOR	2	68	310402-G	3/4" x 2 1/2" GALV. NIPPLE	1
26	M-320591	1/2" COPPER TUBE	-	76	310104-G	1/4" x 3" GALV. NIPPLE	1
27	317397	1/2" Y-STRAINER	1	77	311639	1/2" CHECK VALVE (FxF)	1
28	317396	1/2" SPRING LOADED CHECK VALVE	1	78	311696-GR	1/2" BALL VALVE MxF - GREEN HANDLE	1
29	311794-R	1/2" BALL VALVE MxM - RED HANDLE	1	79	310110-G	1/4" x 6" GALV. NIPPLE	1
31	300112-G	3/4" GALV. CROSS	1	82	310320-G	1/2" x 10" GALV. NIPPLE	1
32	311212-G	3/4" x 1/2" GALV. REDUCING ELBOW	1				

FIGURE 4: SINGLE INTERLOCK PREACTION ELECTRIC ACTUATION TRIM DIMENSIONS



Valve Size	Nominal Installation Dimensions Inches (mm)									
	A	B	C	D	E	F	G	H	I	J
4" (DN100)	7.37 (187)	4.83 (122)	8.63 (219)	15.05 (382)	16.92 (430)	12.73 (323)	7.06 (179)	13.13 (333)	10.95 (278)	8.95 (227)
6" (DN150)	7.37 (187)	4.83 (122)	9.34 (237)	15.81 (402)	16.97 (431)	14.05 (357)	8.50 (216)	14.47 (368)	11.09 (282)	9.09 (231)

Model RCW Single Interlock Preaction Wet Pilot Actuation

A wet pilot actuation trim is one optional trim arrangement for the Globe Model RCW valve. The detection system consists of standard automatic sprinklers or automatic Fixed Temperature Release Devices (typically 1/2" orifice) spaced throughout the protection area connected to the valve pressure chamber by means of ½" pilot line piping. Spacing of the pilot sprinklers is to be in accordance with the specific hazard, applicable standard or the Listing of the Fixed Temperature Release Device. Water pressure is maintained in the valve pressure chamber and tup to the wet pilot sprinklers through a restricted connection from the main water supply which is taken upstream of the system main control valve. (The pressure chamber supply valve must remain in the open position at all times when the system is in service.)

When a pilot sprinkler operates, the water flow through the open pilot sprinkler is at a flow rate greater than that which can pass through the restriction in the pressure chamber supply line. This causes a drop in water pressure in the pressure chamber. With this drop in pressure the clapper can no longer be held in the closed position by the lever/roller assembly. The valve operates (trips) and water enters into the system piping. Operation of the manual control station at the RCW valve also relieves the water pressure in the pressure chamber and operates the valve.

Wet pilot lines for 4" and 6" Model RCW single interlock preaction systems are to be installed within the limitations shown on Figure 6. The curves on each graph show the maximum length of 1/2" pilot piping that may be provided with the RCW valve, in relation to the height of the pilot line above the valve and the water supply static pressure at the valve. The limitations are shown for pressures up to 300 psi, the maximum water working pressure of the Model RCW valve. The length/height/pressure relationship of the pilot line, pilot sprinkler and water supply is one of hydraulics. If the size of the pilot line is increased please consult Globe Technical Services for allowable pilot line length and height.

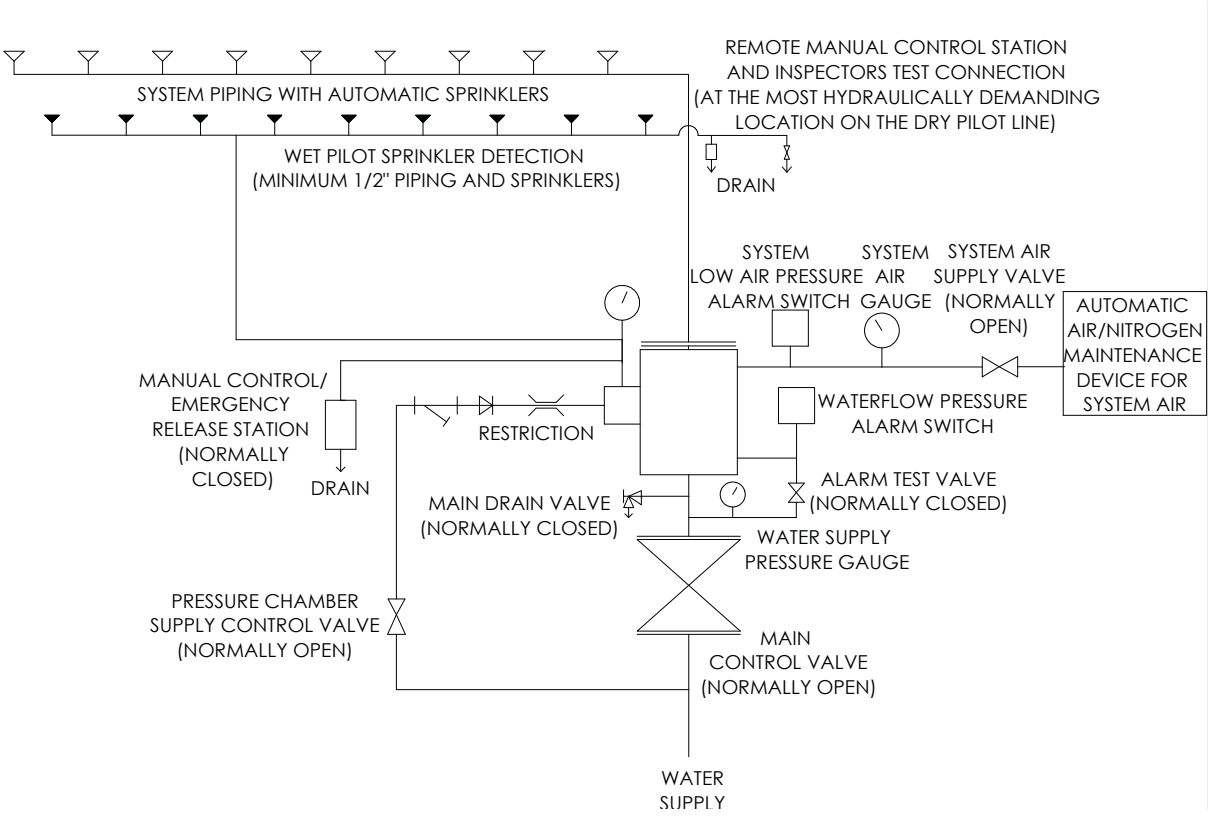
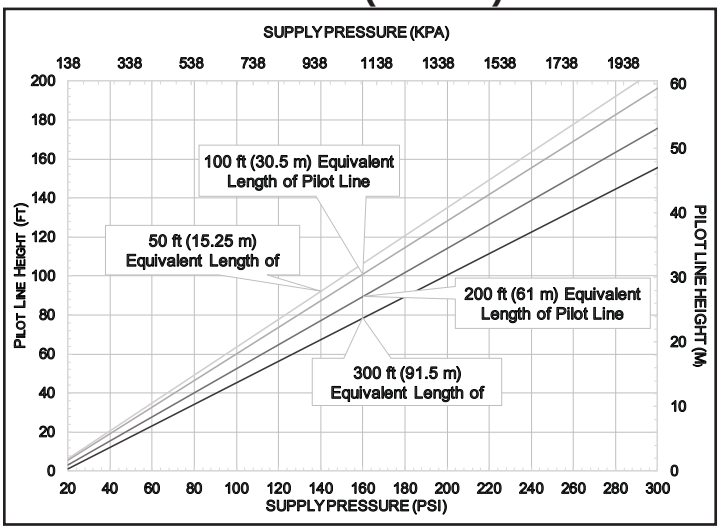


FIGURE 5: SINGLE INTERLOCK WET PILOT ACTUATION SCHEMATIC

FIGURE 6:SINGLE INTERLOCK PREACTION WET PILOT LINE HEIGHT LIMITATIONS

RCW 4" (DN100)



RCW 6" (DN150)

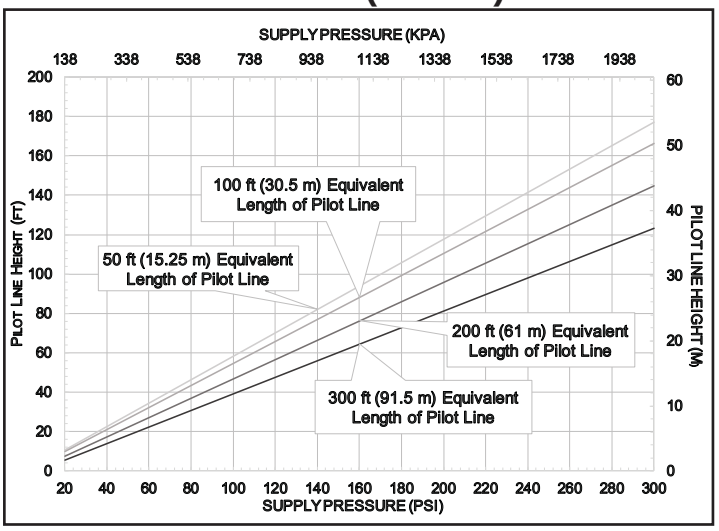
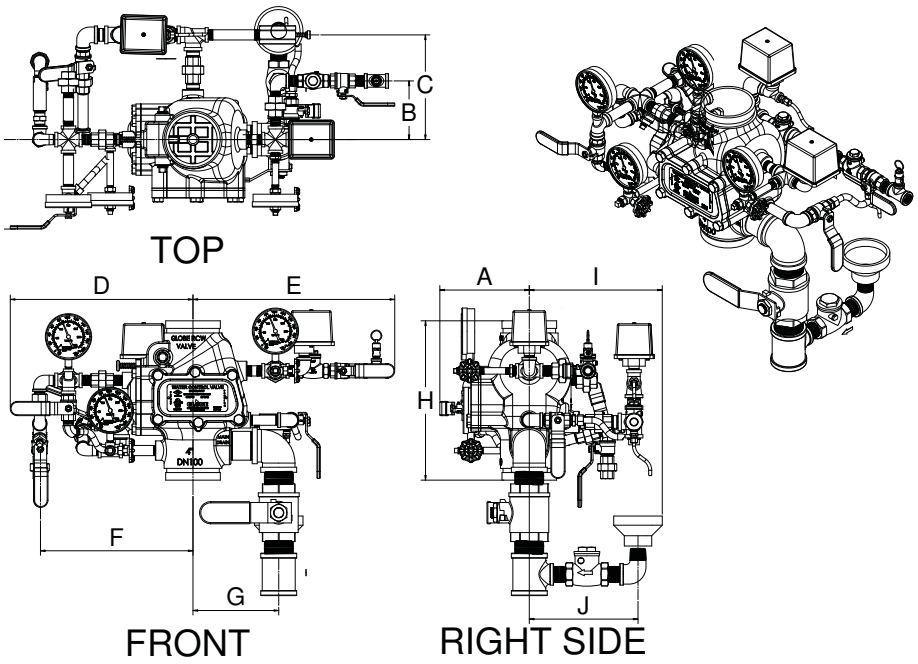
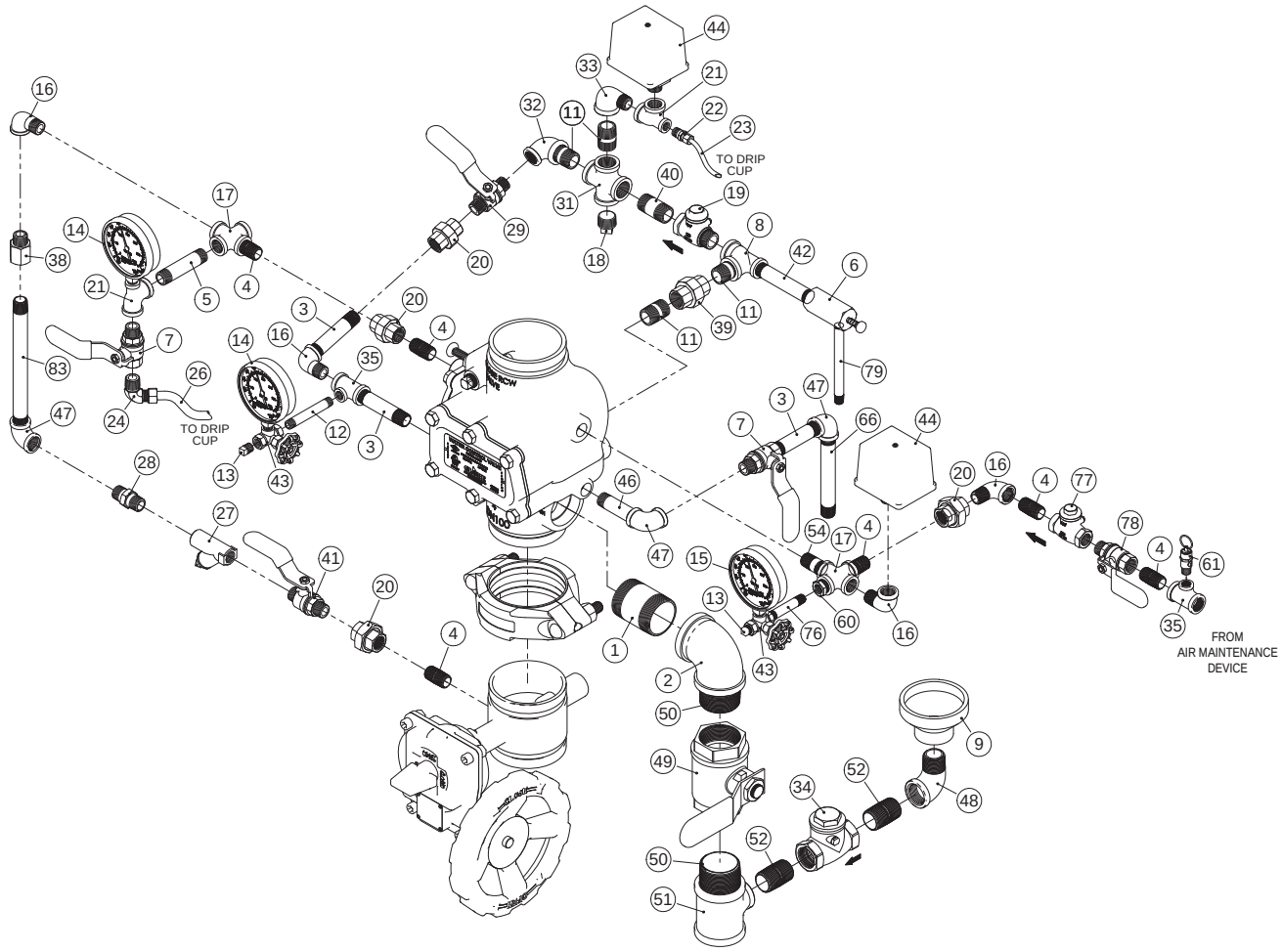


FIGURE 7: SINGLE INTERLOCK PREACTION WET PILOT ACTUATION TRIM DIMENSIONS



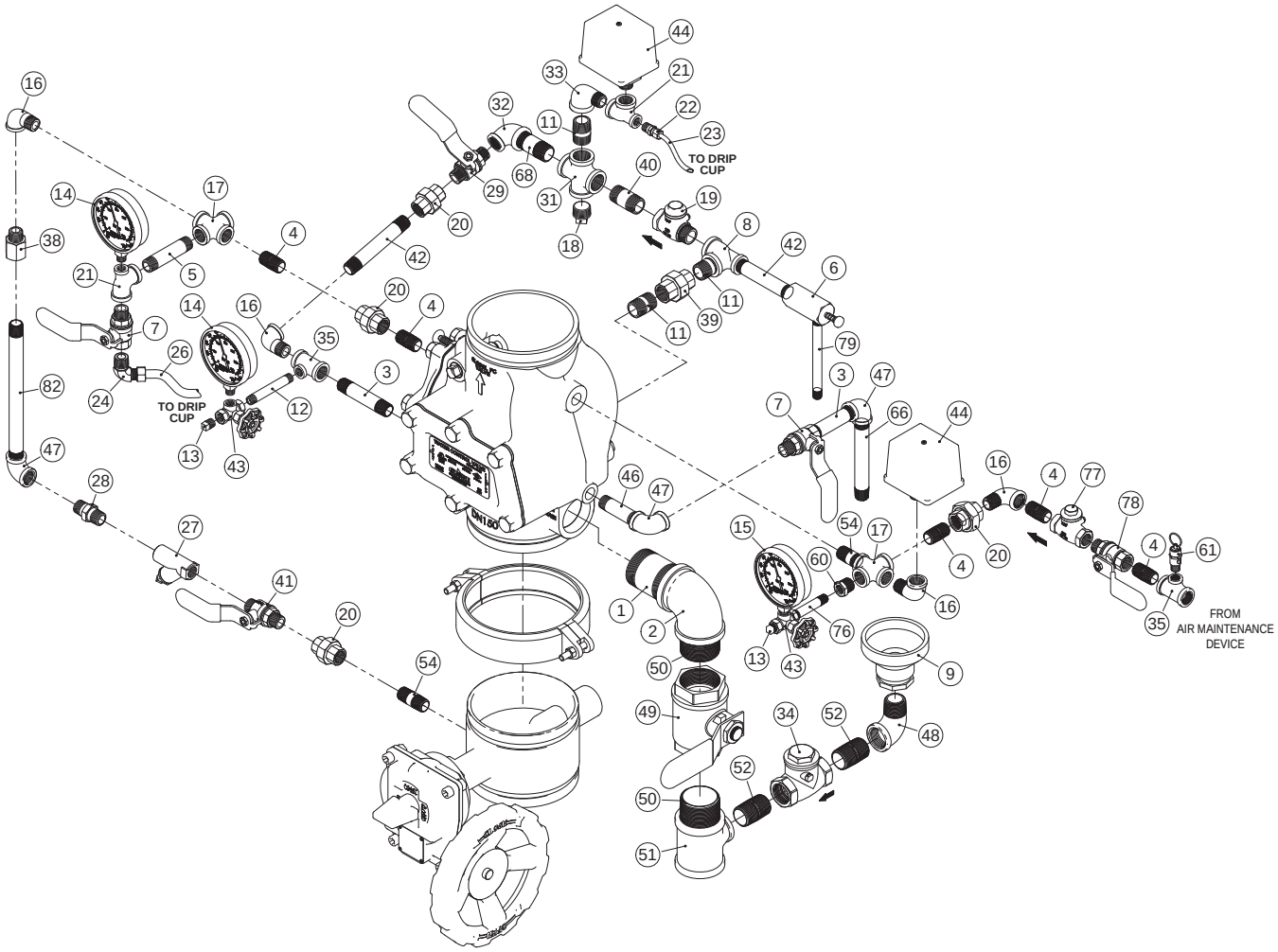
Valve Size	Nominal Installation Dimensions Inches (mm)									
	A	B	C	D	E	F	G	H	I	J
4" (DN100)	7.37 (187)	4.83 (126)	8.63 (219)	15.05 (382)	16.92 (430)	12.73 (323)	7.06 (179)	13.13 (333)	10.95 (278)	8.95 (227)
6" (DN150)	7.37 (187)	4.83 (122)	9.34 (237)	15.81 (402)	16.97 (431)	14.05 (357)	8.50 (216)	14.47 (368)	11.09 (282)	9.09 (231)

FIGURE 8: 4" RCW SINGLE INTERLOCK PREACTION WET PILOT ACTUATION TRIM ARRANGEMENT



ITEM NO.	PART NO.	DESCRIPTION	QTY.	ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	310802-G	2" x 3" GALV. NIPPLE	1	32	311212-G	3/4" x 1/2" GALV. REDUCING ELBOW	1
2	311208-G	2" 90° GALV. ELBOW	1	33	311224-G	3/4" x 1/2" GALV. STREET ELBOW	1
3	310306-G	1/2" x 4" GALV. NIPPLE	3	34	311801	1" CHECK VALVE (FxF)	1
4	310301-G	1/2" x 1 1/2" GALV. NIPPLE	6	35	311314-G	1/2" x 1/2" x 1/4" GALV. TEE	2
5	310305-G	1/2" x 3 1/2" GALV. NIPPLE	1	38	317395	1/2" RESTRICTOR	1
6	323300	VELOCITY CHECK VALVE	1	39	311404-G	3/4" GALV. UNION	1
7	311696-R	1/2" BALL VALVE MxF - RED HANDLE	2	40	310401-G	3/4" x 2" GALV. NIPPLE	1
8	311313-G	3/4" x 1/2" x 3/4" GALV. TEE	1	41	311794-GR	/2" BALL VALVE MxM - GREEN HANDLE	1
9	317398	DRIP CUP ASSEMBLY	1	42	310308-G	1/2" x 5" GALV. NIPPLE	1
11	310413-G	3/4" x 1 1/2" GALV. NIPPLE	4	43	311683	1/4" 3-WAY VALVE	2
12	310105-G	1/4" x 3 1/2" GALV. NIPPLE	1	44	1340104	PS-10-2 ALARM SWITCH	2
13	311001-G	1/4" GALV. PLUG	2	46	310304-G	1/2" x 3" GALV. NIPPLE	1
14	300119-D	3-1/2" WATER GAUGE (300PSI)	2	47	311203-G	1/2" GALV. ELBOW	3
15	300120-D	3-1/2" AIR GAUGE (250PSI)	1	48	311207-G	1" GALV. STREET ELBOW	1
16	311210-G	1/2" GALV. STREET ELBOW	4	49	311799-R	2" BALL VALVE (FxF) - RED HANDLE	1
17	300111-G	1/2" GALV. CROSS	2	50	310800-G	2" CLOSE GALV. NIPPLE	2
18	311004-G	3/4" GALV. PLUG	1	51	311338-G	2" x 2" x 1" GALV. TEE	1
19	311786	3/4" CHECK VALVE MxF	1	52	310501-G	1" x 2" GALV. NIPPLE	2
20	311403-G	1/2" GALV. UNION	4	54	310302-G	1/2" x 2" GALV. NIPPLE	1
21	311305-G	1/2" x 1/4" x 1/2" GALV. TEE	2	60	311100-G	1/2" x 1/4" GALV. REDUCING BUSHING	1
22	310161	1/4" TUBE CONNECTOR	1	61	317444	1/4" PRESSURE RELIEF VALVE (20PSI - FIXED)	1
23	M-320604	1/4" COPPER TUBE	-	66	310310-G	1/2" x 6" GALV. NIPPLE	1
24	310346	1/2" ELBOW TUBE CONNECTOR	1	76	310104-G	1/4" x 3" GALV. NIPPLE	1
26	M-320591	1/2" COPPER TUBE	-	77	311639	1/2" CHECK VALVE (FxF)	1
27	317397	1/2" Y-STRAINER	1	78	311696-GR	1/2" BALL VALVE MxF - GREEN HANDLE	1
28	317396	1/2" SPRING LOADED CHECK VALVE	1	79	310110-G	1/4" x 6" GALV. NIPPLE	1
29	311794-R	1/2" BALL VALVE MxM - RED HANDLE	1	83	310312-G	1/2" x 9" GALV. NIPPLE	1
31	300112-G	3/4" GALV. CROSS	1				

FIGURE 9: 6" RCW SINGLE INTERLOCK PREACTION WET PILOT ACTUATION TRIM ARRANGEMENT



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3	310306-G	1/2" x 4" GALV. NIPPLE	2	34	311801	1" CHECK VALVE (FxF)	1
4	310301-G	1/2" x 1 1/2" GALV. NIPPLE	5	35	311314-G	1/2" x 1/2" x 1/4" GALV. TEE	2
5	310305-G	1/2" x 3 1/2" GALV. NIPPLE	1	38	317395	1/2" RESTRICTOR	1
6	323300	VELOCITY CHECK VALVE	1	39	311404-G	3/4" GALV. UNION	1
7	311696-R	1/2" BALL VALVE MxF - RED HANDLE	2	40	310401-G	3/4" x 2" GALV. NIPPLE	1
8	311313-G	3/4" x 1/2" x 3/4" GALV. TEE	1	41	311794-GR	1/2" BALL VALVE MxM - GREEN HANDLE	1
9	317398	DRIP CUP ASSEMBLY	1	42	310308-G	1/2" x 5" GALV. NIPPLE	2
11	310413-G	3/4" x 1 1/2" GALV. NIPPLE	3	43	311683	1/4" 3-WAY VALVE	2
12	310105-G	1/4" x 3 1/2" GALV. NIPPLE	1	44	1340104	PS-10-2 ALARM SWITCH	2
13	311001-G	1/4" GALV. PLUG	2	46	310304-G	1/2" x 3" GALV. NIPPLE	1
14	300119-D	3-1/2" WATER GAUGE (300PSI)	2	47	311203-G	1/2" GALV. ELBOW	3
15	300120-D	3-1/2" AIR GAUGE (250PSI)	1	48	311207-G	1" GALV. STREET ELBOW	1
16	311210-G	1/2" GALV. STREET ELBOW	4	49	311799-R	2" BALL VALVE (FxF) - RED HANDLE	1
17	300111-G	1/2" GALV. CROSS	2	50	310800-G	2" CLOSE GALV. NIPPLE	2
18	311004-G	3/4" GALV. PLUG	1	51	311338-G	2" x 2" x 1" GALV. TEE	1
19	311786	3/4" CHECK VALVE MXF	1	52	310501-G	1" x 2" GALV. NIPPLE	2
20	311403-G	1/2" GALV. UNION	4	54	310302-G	1/2" x 2" GALV. NIPPLE	2
21	311305-G	1/2" x 1/4" x 1/2" GALV. TEE	2	60	311100-G	1/2" x 1/4" GALV. REDUCING BUSHING	1
22	310161	1/4" TUBE CONNECTOR	1	61	317444	"1/4"" PRESSURE RELIEF VALVE (20PSI - FIXED)"	1
23	M-320604	1/4" COPPER TUBE	-	66	310310-G	1/2" x 6" GALV. NIPPLE	1
24	310346	1/2" ELBOW TUBE CONNECTOR	1	68	310402-G	3/4" x 2 1/2" GALV. NIPPLE	1
26	M-320591	1/2" COPPER TUBE	-	76	310104-G	1/4" x 3" GALV. NIPPLE	1
27	317397	1/2" Y-STRAINER	1	77	311639	1/2" CHECK VALVE (FxF)	1
28	317396	1/2" SPRING LOADED CHECK VALVE	1	78	311696-GR	1/2" BALL VALVE MxF - GREEN HANDLE	1
29	311794-R	1/2" BALL VALVE MxM - RED HANDLE	1	79	310110-G	1/4" x 6" GALV. NIPPLE	1
31	300112-G	3/4" GALV. CROSS	1	82	310320-G	1/2" x 10" GALV. NIPPLE	1

MODEL RCW SINGLE INTERLOCK PREACTION

A dry pilot actuation trim is one optional trim arrangement for the Model RCW valve for single interlock pre-action systems. This arrangement is typically utilized when the pilot line is subject to areas exposed to freezing or close to freezing temperatures. The detection system consists of automatic sprinklers or automatic Fixed Temperature Release Devices (typically 1/2" orifice) spaced throughout the protection area and connected to the valve trim by means of ½" pilot line piping. Spacing of the pilot sprinklers is to be in accordance with the specific hazard, applicable standard or the Listing of the Fixed Temperature Release Devices. Water pressure is maintained in the valve pressure chamber up to the dry pilot actuator through a restricted connection from the main water supply which is taken upstream of the system main control valve. (The pressure chamber supply valve must remain in the open position at all times when the system is in service.) The dry pilot actuator is normally held in the closed position by the pilot line air pressure supplied by the pilot line automatic air or nitrogen maintenance device. System supervisory air pressure is typically maintained through a separate air maintenance device at a pressure of approximately 10 psi.

When a pilot sprinkler operates, the air flow rate through the open pilot sprinkler is at a flow rate greater than that which can be supplied through the pilot line automatic air or nitrogen maintenance device. This causes a drop in the pilot line pressure, and consequently the pressure in the upper chamber of the dry pilot actuator. The pressure decreases until the upper chamber can no longer hold the diaphragm in the normally closed position. The dry pilot actuator actuates and allows water to flow from the pressure chamber of the RCW valve to the drain, at a flow rate greater than that which can be supplied through the restriction in the pressure chamber supply line. The valve operates (trips) and water flows into the system piping. The automatic actuation of the feature of the valve can be bypassed by manually rotating the handle on the "Manual Control/ Emergency Release" valve located on the Model RCW trim to activate the Model RCW valve.

Note: more information can be found on the dry pilot actuator in technical literature H-7.

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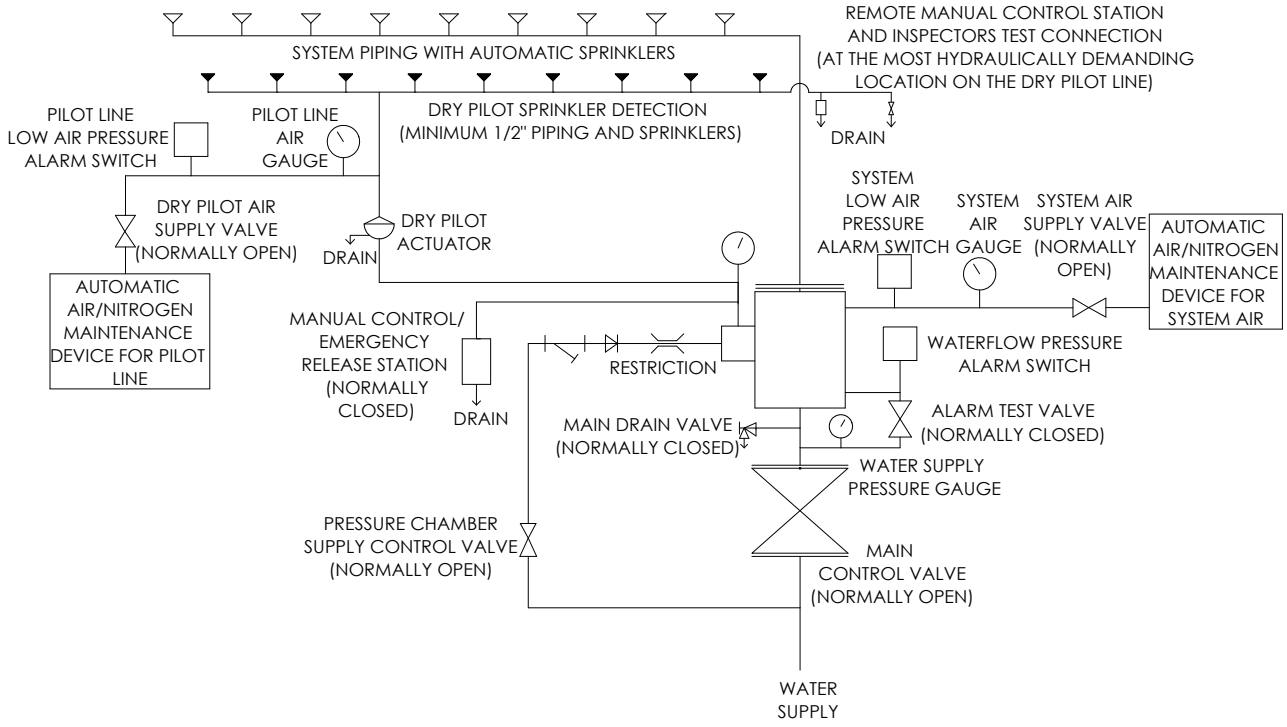
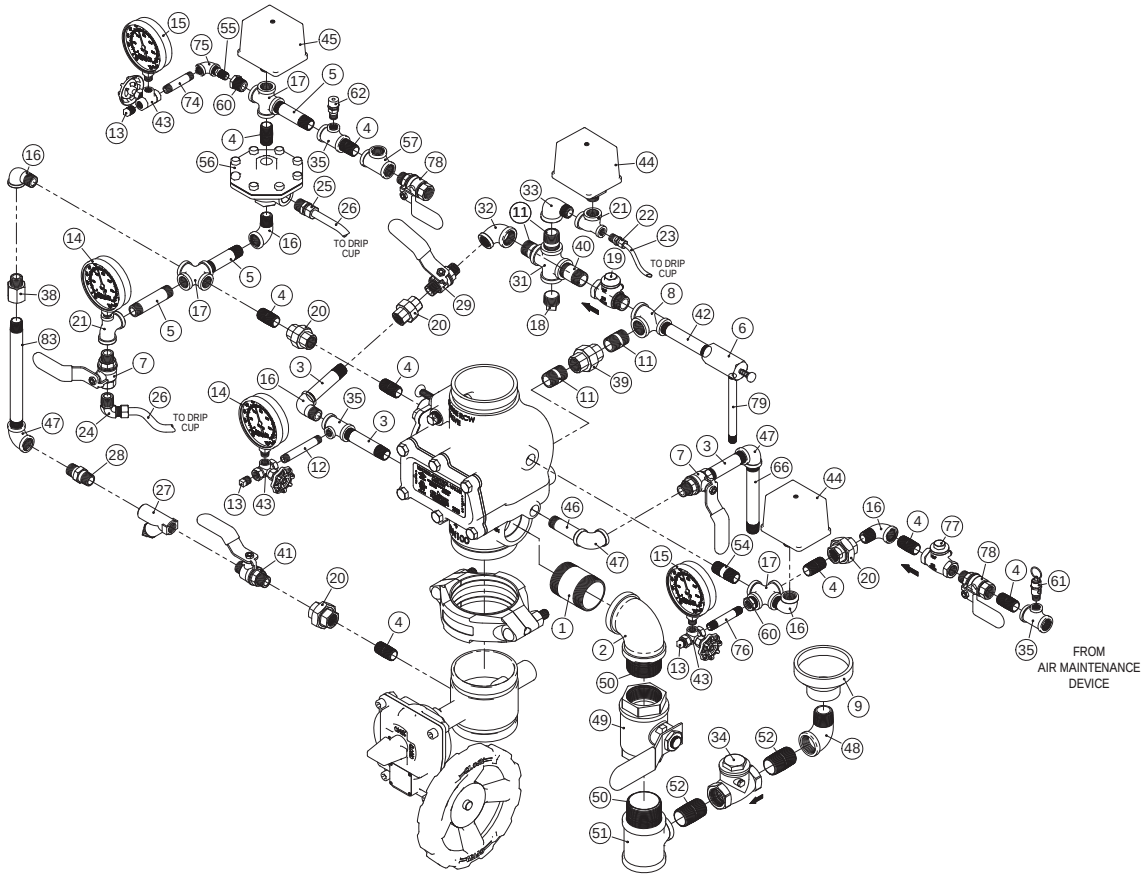


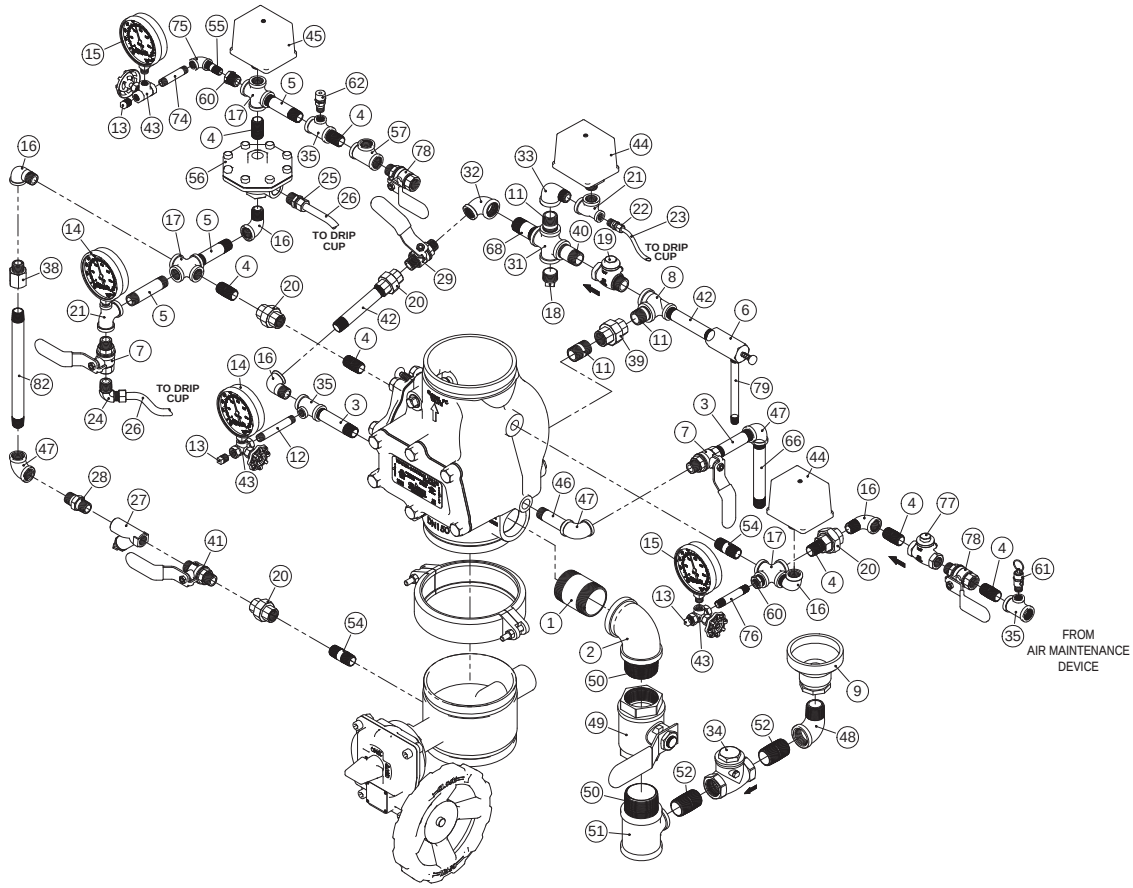
FIGURE 10: SINGLE INTERLOCK DRY PILOT ACTUATION SCHEMATIC

FIGURE 11: 4" RCW SINGLE INTERLOCK PREACTION DRY PILOT ACTUATION TRIM ARRANGEMENT



ITEM NO.	PART NO.	DESCRIPTION	QTY.	ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	310802-G	2" x 3" GALV. NIPPLE	1	35	311314-G	1/2" x 1/2" x 1/4" GALV. TEE	3
2	311208-G	2" 90° GALV. ELBOW	1	38	317395	1/2" RESTRICTOR	1
3	310306-G	1/2" x 4" GALV. NIPPLE	3	39	311404-G	3/4" GALV. UNION	1
4	310301-G	1/2" x 1 1/2" GALV. NIPPLE	8	40	310401-G	3/4" x 2" GALV. NIPPLE	1
5	310305-G	1/2" x 3 1/2" GALV. NIPPLE	3	41	311794-GR	1/2" BALL VALVE MxM - GREEN HANDLE	1
6	323300	VELOCITY CHECK VALVE	1	42	310308-G	1/2" x 5" GALV. NIPPLE	1
7	311696-R	1/2" BALL VALVE MxF - RED HANDLE	2	43	311683	1/4" 3-WAY VALVE	3
8	311313-G	3/4" x 1/2" x 3/4" GALV. TEE	1	44	1340104	PS-10-2 ALARM SWITCH	2
9	317398	DRIP CUP ASSEMBLY	1	45	1340404	PS-40-2 ALARM SWITCH	1
11	310413-G	3/4" x 1 1/2" GALV. NIPPLE	4	46	310304-G	1/2" x 3" GALV. NIPPLE	1
12	310105-G	1/4" x 3 1/2" GALV. NIPPLE	1	47	311203-G	1/2" GALV. ELBOW	3
13	311001-G	1/4" GALV. PLUG	3	48	311207-G	1" GALV. STREET ELBOW	1
14	300119-D	3-1/2" WATER GAUGE (300PSI)	2	49	311799-R	2" BALL VALVE (FxF) - RED HANDLE	1
15	300120-D	3-1/2" AIR GAUGE (250PSI)	2	50	310800-G	2" CLOSE GALV. NIPPLE	2
16	311210-G	1/2" GALV. STREET ELBOW	5	51	311338-G	2" x 2" x 1" GALV. TEE	1
17	300111-G	1/2" GALV. CROSS	3	52	310501-G	1" x 2" GALV. NIPPLE	2
18	311004-G	3/4" GALV. PLUG	1	54	310302-G	1/2" x 2" GALV. NIPPLE	1
19	311786	3/4" CHECK VALVE MxF	1	55	310101-G	1/4" x 1 1/2" GALV. NIPPLE	1
20	311403-G	1/2" GALV. UNION	4	56	317554	DRY PILOT ACTUATOR	1
21	311305-G	1/2" x 1/4" x 1/2" GALV. TEE	2	57	311303-G	1/2" GALV. TEE	1
22	310161	1/4" TUBE CONNECTOR	1	60	311100-G	1/2" x 1/4" GALV. REDUCING BUSHING	2
23	M-320604	1/4" COPPER TUBE	-	61	317444	1/4" PRESSURE RELIEF VALVE (20PSI - FIXED)	1
24	310346	1/2" ELBOW TUBE CONNECTOR	1	62	317445	1/4" PRESSURE RELIEF VALVE (ADJ. PSI) FACTORY SET @ 45PSI	1
25	310164	1/2" TUBE CONNECTOR	1	66	310310-G	1/2" x 6" GALV. NIPPLE	1
26	M-320591	1/2" COPPER TUBE	-	74	310103-G	1/4" x 2 1/2" GALV. NIPPLE	1
27	317397	1/2" Y-STRAINER	1	75	311201	1/4" ELBOW	1
28	317396	1/2" SPRING LOADED CHECK VALVE	1	76	310104-G	1/4" x 3" GALV. NIPPLE	1
29	311794-R	1/2" BALL VALVE MxM - RED HANDLE	1	77	311639	1/2" CHECK VALVE (FxF)	1
31	300112-G	3/4" GALV. CROSS	1	78	311696-GR	1/2" Ball Valve (MxF) - Green Handle	2
32	311212-G	3/4" x 1/2" GALV. REDUCING ELBOW	1	79	310110-G	1/4" x 6" GALV. NIPPLE	1
33	311224-G	3/4" x 1/2" GALV. STREET ELBOW	1	83	310312-G	1/2" x 9" GALV. NIPPLE	1
34	311801	1" CHECK VALVE (FxF)	1				

FIGURE 12: 6" RCW SINGLE INTERLOCK PREACTION DRY PILOT ACTUATION TRIM ARRANGEMENT



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3	310306-G	1/2" x 4" GALV. NIPPLE	2	39	311404-G	3/4" GALV. UNION	1
4	310301-G	1/2" x 1 1/2" GALV. NIPPLE	7	40	310401-G	3/4" x 2" GALV. NIPPLE	1
5	310305-G	1/2" x 3 1/2" GALV. NIPPLE	3	41	311794-GR	1/2" BALL VALVE MxM - GREEN HANDLE	1
6	323300	VELOCITY CHECK VALVE	1	42	310308-G	1/2" x 5" GALV. NIPPLE	2
7	311696-R	1/2" BALL VALVE MxF - RED HANDLE	2	43	311683	1/4" 3-WAY VALVE	3
8	311313-G	3/4" x 1/2" x 3/4" GALV. TEE	1	44	1340104	PS-10-2 ALARM SWITCH	2
9	317398	DRIP CUP ASSEMBLY	1	45	1340404	PS-40-2 ALARM SWITCH	1
11	310413-G	3/4" x 1 1/2" GALV. NIPPLE	3	46	310304-G	1/2" x 3" GALV. NIPPLE	1
12	310105-G	1/4" x 3 1/2" GALV. NIPPLE	1	47	311203-G	1/2" GALV. ELBOW	3
13	311001-G	1/4" GALV. PLUG	3	48	311207-G	1" GALV. STREET ELBOW	1
14	300119-D	3-1/2" WATER GAUGE (300PSI)	2	49	311799-R	2" BALL VALVE (FxF) - RED HANDLE	1
15	300120-D	3-1/2" AIR GAUGE (250PSI)	2	50	310800-G	2" CLOSE GALV. NIPPLE	2
16	311210-G	1/2" GALV. STREET ELBOW	5	51	311338-G	2" x 2" x 1" GALV. TEE	1
17	300111-G	1/2" GALV. CROSS	3	52	310501-G	1" x 2" GALV. NIPPLE	2
18	311004-G	3/4" GALV. PLUG	1	54	310302-G	1/2" x 2" GALV. NIPPLE	2
19	311786	3/4" CHECK VALVE MxF	1	55	310101-G	1/4" x 1 1/2" GALV. NIPPLE	1
20	311403-G	1/2" GALV. UNION	4	56	317554	DRY PILOT ACTUATOR	1
21	311305-G	1/2" x 1/4" x 1/2" GALV. TEE	2	57	311303-G	1/2" GALV. TEE	1
22	310161	1/4" TUBE CONNECTOR	1	60	311100-G	1/2" x 1/4" GALV. REDUCING BUSHING	2
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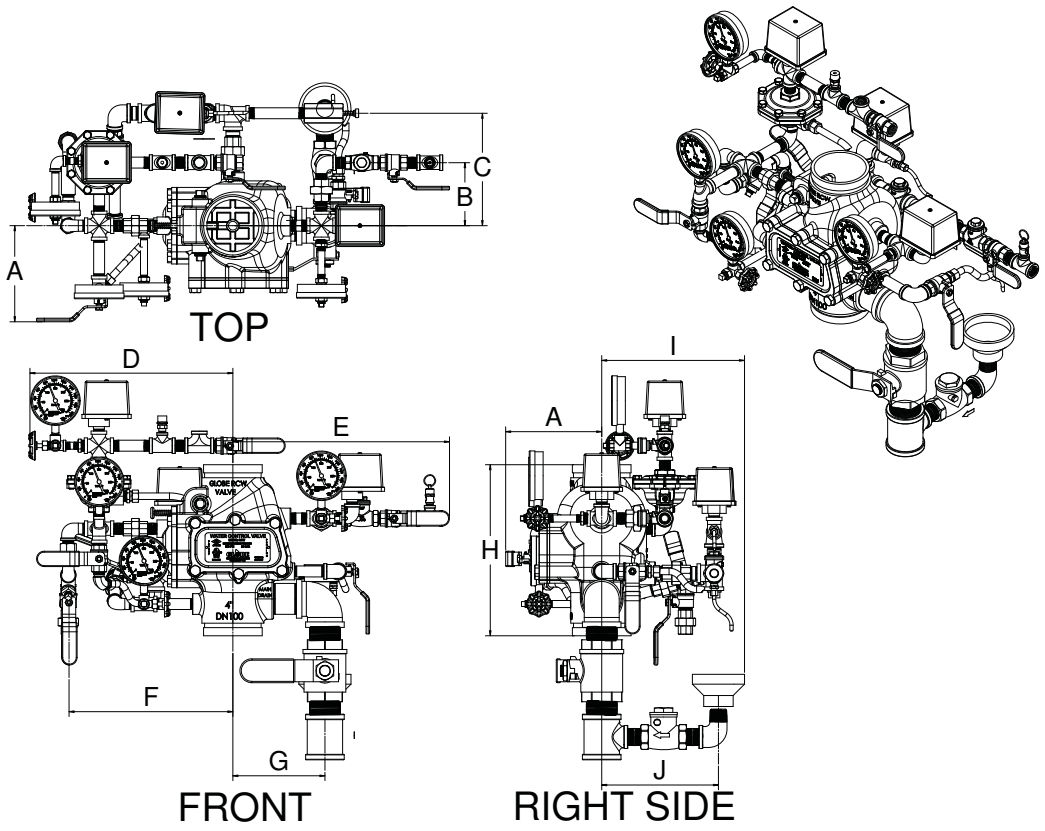
25	310164	1/2" TUBE CONNECTOR	1	66	310310-G	1/2" x 6" GALV. NIPPLE	1
26	M-320591	1/2" COPPER TUBE	-	68	310402-G	3/4" x 2 1/2" GALV. NIPPLE	1
27	317397	1/2" Y-STRAINER	1	74	310103-G	1/4" x 2 1/2" GALV. NIPPLE	1
28	317396	1/2" SPRING LOADED CHECK VALVE	1	75	311201	1/4" ELBOW	1
29	311794-R	1/2" BALL VALVE MxM - RED HANDLE	1	76	310104-G	1/4" x 3" GALV. NIPPLE	1
31	300112-G	3/4" GALV. CROSS	1	77	311639	1/2" CHECK VALVE (FxF)	1
32	311212-G	3/4" x 1/2" GALV. REDUCING ELBOW	1	78	311696-GR	1/2" BALL VALVE MxF - GREEN HANDLE	1
33	311224-G	3/4" x 1/2" GALV. STREET ELBOW	1	79	310110-G	1/4" x 6" GALV. NIPPLE	1
34	311801	1" CHECK VALVE (FxF)	1	82	310320-G	1/2" x 10" GALV. NIPPLE	1

FIGURE 13: SINGLE INTERLOCK DRY PILOT TRIM DIMENSIONS



Valve Size	Nominal Installation Dimensions Inches (mm)									
	A	B	C	D	E	F	G	H	I	J
4" (DN100)	7.37 (187)	4.83 (126)	8.63 (219)	15.65 (398)	16.92 (430)	12.73 (323)	7.06 (179)	13.13 (333)	10.95 (278)	8.95 (227)
6" (DN150)	7.37 (187)	4.83 (122)	9.34 (237)	16.33 (415)	16.97 (431)	14.05 (357)	8.50 (216)	14.47 (368)	11.09 (282)	9.09 (231)

INSTALLATION

Proper operation of the RCW Valve (i.e., opening of the RCW Valve as during a fire condition) is highly dependent on the correct installation of the trim. It is necessary to install the trim components as described in the figures above for the valve to function properly. Failure to do so may prevent the valve from functioning and could void Listings, Approvals, and/or the manufacturer's warranty. All tubing directed to the "drip cup" must have smooth bends. Abrupt changes in direction or kinks in the tubing could result in a restriction of flow and an adverse effect on the functionality of the valve.

The Model RCW Valve must be installed in an accessible and visible location, which is maintained at or above a minimum temperature of 40ºF (4ºC). The RCW Valve must be installed in the vertical orientation.

All valves must be installed in accordance with the appropriate installation standard (i.e. NFPA 13, NFPA 15 or other). All electrical connections must be made per the applicable installation standard and/or the National Electric Code (i.e. NFPA 70, NFPA 72 or other).

Proper hydrostatic test procedure must be followed per NFPA 13. The velocity check valve must be replaced with a plug temporarily, the pressure chamber must be vented during the hydrostatic test procedure by opening the manual release valve and the clapper must be latched in the open position.

SINGLE INTERLOCK PREACTION VALVE SETTING PROCEDURE

The following steps are to be followed for initial setting of the Model RCW valve for Single Interlock Pre-action Systems, after a trip test of the fire protection system or, after any system operation. Refer to Figure 1, 5, or 10, as appropriate.

STEP 1. Close the main control valve.

STEP 2. Close the pressure chamber supply control valve and the system air supply valve.

STEP 2b. Dry pilot actuation - close dry pilot line air supply valve.

STEP 3. Open the main drain valve, lower body (aux) drain valve, and all low point drain valves and auxiliary drain valves on the system. Open the manual emergency release control valve. Depress the plunger of the velocity check valve to verify that it is not under pressure and that the system piping is completely drained. After system is completely drained, close all low point and auxiliary drain valves that were open. The manual emergency release control valve and main drain valve should remain open until directed in the following steps.

STEP 4. Depress the reset plunger located at the top of the pressure chamber to reset the clapper of the RCW valve (the sound of the clapper falling into position should be heard).

STEP 5a. Electric Actuation – The detection system is to be cleared and reset in accordance with the detection system and/or control panel manufacturer's instructions. Once reset, verify the solenoid valve is closed (de-energized). When closed, the solenoid valve should have no magnetic charge on the nut on the top of the coil. Test the nut to make sure it is has no magnetic charge by contacting the nut with a conductive item such as a screwdriver. If still magnetized, the detection system/panel is not properly set for service. An alternate method of verifying if the solenoid valve is closed is to open the manual emergency release control valve and then the pressure chamber supply control valve slowly. Proceed to close the manual emergency release control valve and verify water ceases to discharge from the drain tubing to the drip cup. If no water is seen discharging from the drain tubing continue to step 6.

STEP 5b. Wet Pilot Actuation - open the remote wet pilot line test valve. Replace any operated wet pilot sprinklers that operated with the same type, i.e. orientation, orifice, temperature, and thermal sensitivity. Open the manual emergency release control valve and then the pressure chamber supply control valve. Verify water is flowing out of the manual emergency release control valve to the drip cup and proceed to slowly close the manual emergency release control valve. Allow water to fill the wet pilot piping. Slowly close the remote test valve as soon as water begins to discharge to allow pressure to build up in the pilot line and pressure chamber, continue to step 6.

STEP 5c. Dry Pilot Actuation – open the remote dry pilot line test valve. Replace any operated dry pilot sprinklers that operated with the same type, i.e. orientation, orifice, temperature, and thermal sensitivity. Close the remote test valve and open the dry pilot line air supply valve to re-establish normal dry pilot line pressure. Open the manual emergency release control valve and then the pressure chamber supply control valve. Slowly close the manual emergency release control valve and allow pressure to build up in the pressure chamber and up to the dry pilot actuator, and continue to step 6.

STEP 6. Observe all drain tubing at the drip cup. If any leakage is observed, the source of the leakage must be identified and corrected.

STEP 7. Partially open the main control valve. Slowly close the main drain valve when water discharges from the drain connection. Observe the supply pressure gauge and the pressure chamber gauge, they should indicate the same pressure reading. Depress the plunger on the velocity check valve to check for leaks. If leakage is apparent, the cause of the leakage must be identified and corrected. If there are no leaks, open the system control valve fully.

STEP 8. Open the system air supply control valve and bring the system up to normal pressure (nominally 10 psi). Reset the releasing control panel to clear any supervisory conditions connected to the system control valve. The panel reset will also clear the low air supervisory condition. Once the panel is reset and clear, the system is set for service.

TESTING

Reference NFPA 25, Standard for the Inspection, Testing and Maintenance of Water-Based Fire Protection Systems.

Before proceeding with any tests involving water flow, the following precautions need to be taken:

STEP 1. Check the location where the test connection discharges to make sure that all is clear and that there is no possibility of the water flow causing damage or injury.

STEP 2. Check the end of the test connection to make sure that it is unobstructed. To achieve a satisfactory test, there must be an unrestricted flow of water when the test valve is wide open.

STEP 3. Check for alarm connections to a central station or fire department. If such connections are found, give proper notice to the signal receiving station before proceeding with the test.

Note: A main drain test may also operate local fire alarms unless they are temporarily disabled.

SINGLE INTERLOCK PREACTION TRIP TEST PROCEDURE

Proper operation of the RCW Valve (i.e., opening of the RCW Valve as during a fire condition) must be verified, at a frequency described by the applicable Inspection Testing and Maintenance Standard (i.e. NFPA 25) or by the Local AHJ. Globe Sprinkler Corporation recommends performing a trip test annually. The steps to perform a trip test are as follows:

STEP 1. If a partial flow trip test is required, perform the following additional steps. If a normal flow test is being performed continue to Step 2:

1. Close the main control valve.
2. Open the main drain valve.
3. Open the main control valve one turn beyond the position at which water just begins to flow from the main drain valve.
4. Close the main drain valve.

Note: Be sure to close the main control valve quickly after the trip of the valve has been verified.

STEP 2a. Electric Actuation - Activate the releasing circuit of the Single Interlock Preaction releasing panel in accordance with the manufacturer's instructions to energize the solenoid valve.

STEP 2b. Wet Pilot Actuation -Open the test valve at the end of the wet pilot line.

STEP 2c. Dry Pilot Actuation - Open the test valve at the end of the dry pilot line.

STEP 3. Verify that the RCW Valve has tripped, as indicated by the flow of water into the system and activation of the water flow alarm.

STEP 4. Close the system's Main Control Valve.

STEP 5. Close the Diaphragm Chamber Supply Control Valve.

STEP 6. Reset the RCW Single Interlock Preaction Valve in accordance with the Single Interlock Preaction Valve Setting Procedure.

SINGLE INTERLOCK PREACTION- WATERFLOW ALARM TEST PROCEDURE

Testing of the system water flow alarms must be performed at the frequency described by the applicable inspection testing and maintenance standard (i.E. NFPA 25) or as described by the local AHJ. To test the water flow alarm, open the alarm test valve, which will allow a flow of water to the pressure alarm switch and/or water motor alarm. Upon satisfactory completion of the test, close the alarm test valve.

MAINTENANCE

Note:

- All valves should be carefully inspected, tested, and maintained in accordance with NFPA 25 or other applicable Standard.
- It is important to ensure a clean water supply free of debris and solid particles such as sand, gravel, or mud.
- If, during an inspection of a water control valve, sediment or free particles of matter are noted, a further examination of internal valve parts is necessary.
- All deposits should be removed from all operating parts and ports. Vent holes through intermediate chamber should be thoroughly cleaned and flushed with clean water.
- Where difficulty in performance is experienced, the manufacturer or its authorized representative shall be contacted before any field adjustment is to be made.

Clapper Facing. The rubber clapper facing should be checked for wear or damage to determine that it is free of dirt and other foreign substances. If found to be worn or damaged (e.g., foreign matter embedded in the surface), the facing should be replaced. If it is dirty, it should be cleaned. Compounds which could damage the rubber facing must never be used.

Seat Ring. The seat ring should be checked for nicks and for stones, dirt or other foreign matter lodged in the grooves or holes. It should be cleaned thoroughly. If the seat ring is found to be damaged, valve should be replaced.

Alarm Line Check Valve. The ¾" check valve connected to the intermediate chamber should be checked for clapper and seat condition.

RCW Valve. Main Drain Valve and all controlling valves which are normally closed when the deluge valve is in the set position should be checked to be sure that they are fully closed and not leaking.

ORDERING INFORMATION

The RCW Valve with Single Interlock Preaction; Electric, Wet Pilot, or Dry Pilot Actuation trim can be ordered pre-trimmed or non-assembled as separate items. The standard offering comes with galvanized nipples and fittings (Standard galvanized trim is not domestic). For non-assembled the following items must be ordered separately:

- RCW Water Control Valve
- Single Interlock Preaction Electric Actuation Trim or; Single Interlock Preaction Wet Pilot Trim or; Single Interlock Preaction Dry Pilot Trim
- Automatic Air Supply (Air Maintenance Device)
- Accessories (as needed)

PRE-TRIMMED WITH MODEL GLR300G CONTROL VALVE

Pre-trimmed electric actuation standard solenoid valve is the Skinner 24 VDC; 175 psi rated solenoid. If different solenoid valve is desired, inform Customer Service at time of order placement.

PRE-TRIMMED RCW SINGLE INTERLOCK ELECTRIC ACTUATION W/ MODEL GLR300G CONTOL VALVE

Specify: RCW Single Interlock Electric Pretrimmed w/ BFV(specify valve size), PN :

4 Inch GxG 317440-B
6 Inch GxG 317489-B
DN 150 (165,1 mm) GxG 317489-D-B

PRE-TRIMMED RCW SINGLE INTERLOCK WET PILOT ACTUATION W/ MODEL GLR300G CONTOL VALVE

Specify: RCW Single Interlock Wet Pilot Pretrimmed w/ BFV(specify valve size), PN:

4 Inch GxG 317442-B
6 Inch GxG 317488-B
DN 150 (165,1 mm) GxG 317488-D-B

PRE-TRIMMED RCW SINGLE INTERLOCK DRY PILOT ACTUATION W/ MODEL GLR300G CONTOL VALVE

Specify: RCW Single Interlock Dry Pilot Pretrimmed w/ BFV(specify valve size), PN:

4 Inch GxG 317439-B
6 Inch GxG 317490-B
DN 150 (165,1 mm) GxG 317490-D-B

PRE-TRIMMED WITHOUT GROOVED BFV CONTROL VALVE

PRE-TRIMMED RCW SINGLE INTERLOCK ELECTRIC ACTUATION

Specify: RCW Single Interlock Electric Pretrimmed (specify valve size), PN:

4 Inch GxG 317440
6 Inch GxG 317489
DN 150 (165,1 mm) GxG 317489D

PRE-TRIMMED RCW SINGLE INTERLOCK WET PILOT ACTUATION

Specify: RCW Single Interlock Wet Pilot Pretrimmed (specify valve size), PN:

4 Inch GxG 317442
6 Inch GxG 317488
DN 150 (165,1 mm) GxG 317488-D

PRE-TRIMMED RCW SINGLE INTERLOCK DRY PILOT ACTUATION

Specify: RCW Single Interlock Dry Pilot Pretrimmed (specify valve size), PN:

4 Inch GxG 317439
6 Inch GxG 317490
DN 150 (165,1 mm) GxG 317490-D

NON-ASSEMBLED

- Valve body ordered separately
- Trim Kit includes extra pieces to accommodate different size valves
- Solenoid Valve Included (Standard offering 175 psi rated)

RCW Water Control Valve

Specify: RCW Valve Only (specify valve size)

4 inch RCW GxG 317400
6 inch RCW GxG 317550
DN 150 (165,1 mm) RCW GXG 317550-D

RCW SINGLE INTERLOCK ELECTRIC TRIM KIT 4 INCH OR 6 INCH OR DN 150

Specify: RCW Single Interlock Electric Trim Kit, PN:

Single Interlock Electric Trim Kit.....
.....317363

SINGLE INTERLOCK PREACTION WET PILOT ACTUATION TRIM KIT 4 INCH OR 6 INCH OR DN 150

Specify: RCW Single Interlock Wet Pilot Trim Kit, PN:

Single Interlock Wet Pilot Trim Kit.....
.....317360

SINGLE INTERLOCK PREACTION DRY PILOT ACTUATION TRIM KIT 4 INCH OR 6 INCH OR DN 150

Specify: RCW Single Interlock Dry Pilot Trim Kit, PN:

Single Interlock Dry Pilot Trim Kit.....
.....317361

Solenoid Valve

A Solenoid Valve compatible with the anticipated maximum water supply pressure and release panel, when ordering an electric actuation trim. Refer to Technical Data Sheet GFV565 for ordering information.

Specify: 24 VDC, (175 psi, 250 psi or 300 psi) Solenoid Valve:

ASCO 175 psi (12 Bar) UL/FM G8219G207
ASCO 300 psi (20.7 Bar) UL/FM. GHV432449001
*Skinner 175 psi (12 Bar) UL/FM. G5118026
Skinner 250 psi (17.2 Bar) UL/FM. . . . G5118024

**Standard*

Model H-1, H-2 or H-3 Air Maintenance Device

Specify: Model (Specify Model) Air Maintenance Device (see Part Number below)

H-1. 320585
H-2. 320595
H-3. 320600

See Technical Literature G-1 and G-2 for more information on Air Maintenance Devices

Note:

300 psi (20.6 Bars) Pressure Gauges Standard (600 psi (41.2 Bars) Ordered Separately

PN 300121-D

See trim drawings for trim replacement part numbers

See Technical Data Sheet GFV200 for RCW Valve replacement part numbers

GLOBE® PRODUCT WARRANTY

Globe agrees to repair or replace any of its manufactured products found to be defective in material or workmanship for a period of one year from date of shipment.

For specific details of our warranty please refer to Price List Terms and Conditions of Sale (Our Price List).

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