

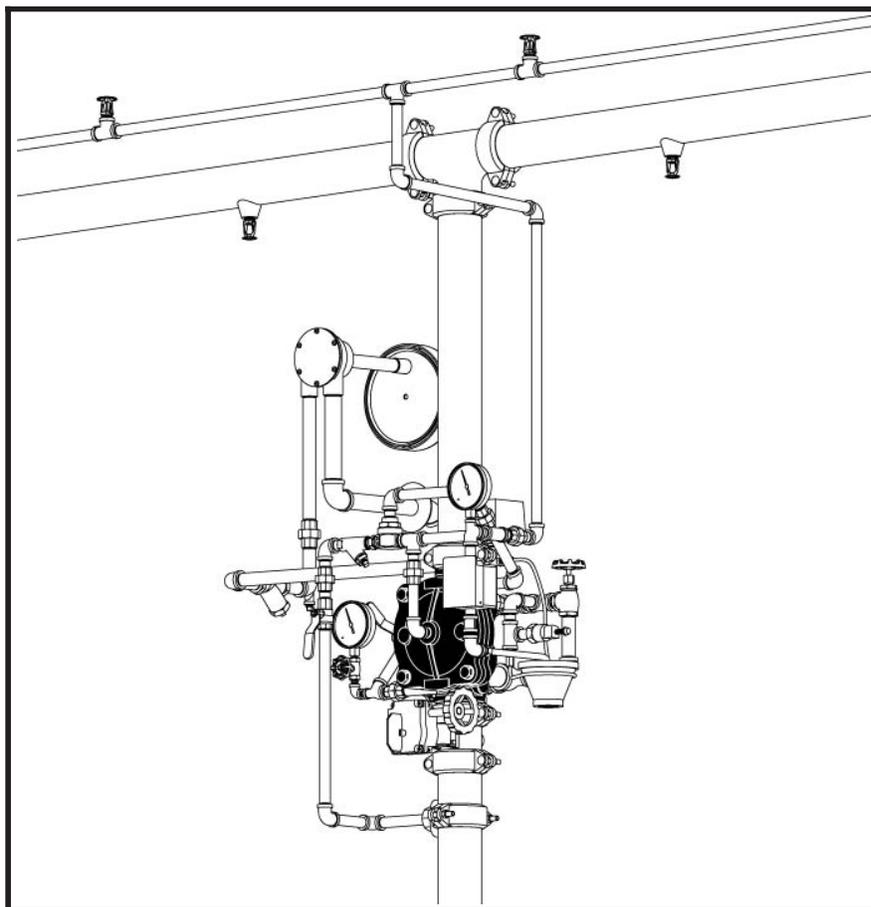
Model DV-5 Deluge Valve, Diaphragm Style, 1-1/2 thru 8 Inch (DN40 thru DN200), Deluge System — Wet Pilot Actuation

General Description

The Model DV-5 Deluge Valve (described in Technical Data Sheet TFP1305) is a diaphragm style valve that depends upon water pressure in the Diaphragm Chamber to hold the Diaphragm closed against the water supply pressure. When the DV-5 Valve is set for service, the Diaphragm Chamber is pressurized through the trim connections from the inlet side of the system's main control valve, for example an O.S.&Y. gate valve or butterfly valve (Ref. Figures 1 and 3).

Opening of a wet pilot sprinkler, releases water from the Diaphragm Chamber faster than it can be replenished through the 1/8 inch (3,2 mm) restriction provided by the Model ASV-1 Automatic Shut-Off Valve in the diaphragm supply connections (Item 5 - Fig. 2A and 4, also described in Technical Data Sheet TFP1384). This results in a rapid pressure drop in the Diaphragm Chamber and the force differential applied through the Diaphragm that holds it in the set position is reduced below the valve trip point. The water supply pressure then forces the Diaphragm open permitting water to flow into the system piping, as well as through the Alarm Port to actuate the system alarms.

As water flows into the system, the pilot chamber of the Model ASV-1 Automatic Shut-Off Valve (Item 5 - Fig. 2A and 4) becomes pressurized and the ASV-1 automatically shuts off the diaphragm chamber supply flow to the DV-5 Diaphragm Chamber. Shutting off the diaphragm chamber supply flow prevents the DV-5 Diaphragm Chamber from becoming re-pressurized, thereby preventing inadvertent closing of the DV-5 during a fire (as may be the case if an actuation device other than a pilot sprinkler were to be closed after its initial operation, for example a remote manual control station).

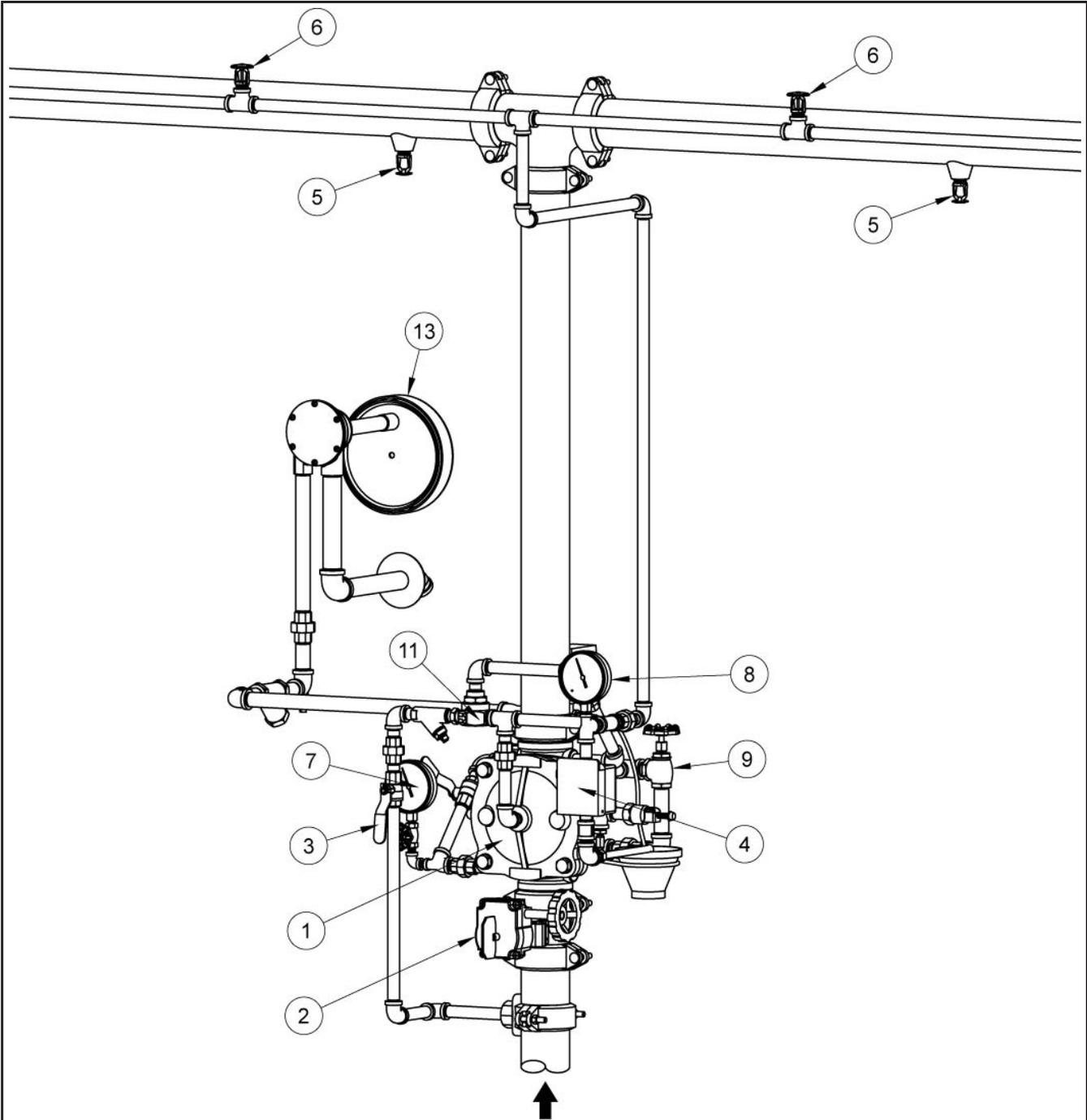


WARNING

*The Model DV-5 Deluge Valve with Wet Pilot Actuation Trim described herein must be installed and maintained in compliance with this document, as well as with the applicable standards of the National Fire Protection Association, in addition to the standards of any other authorities having jurisdiction. **Failure to do so may impair the performance of these devices.***

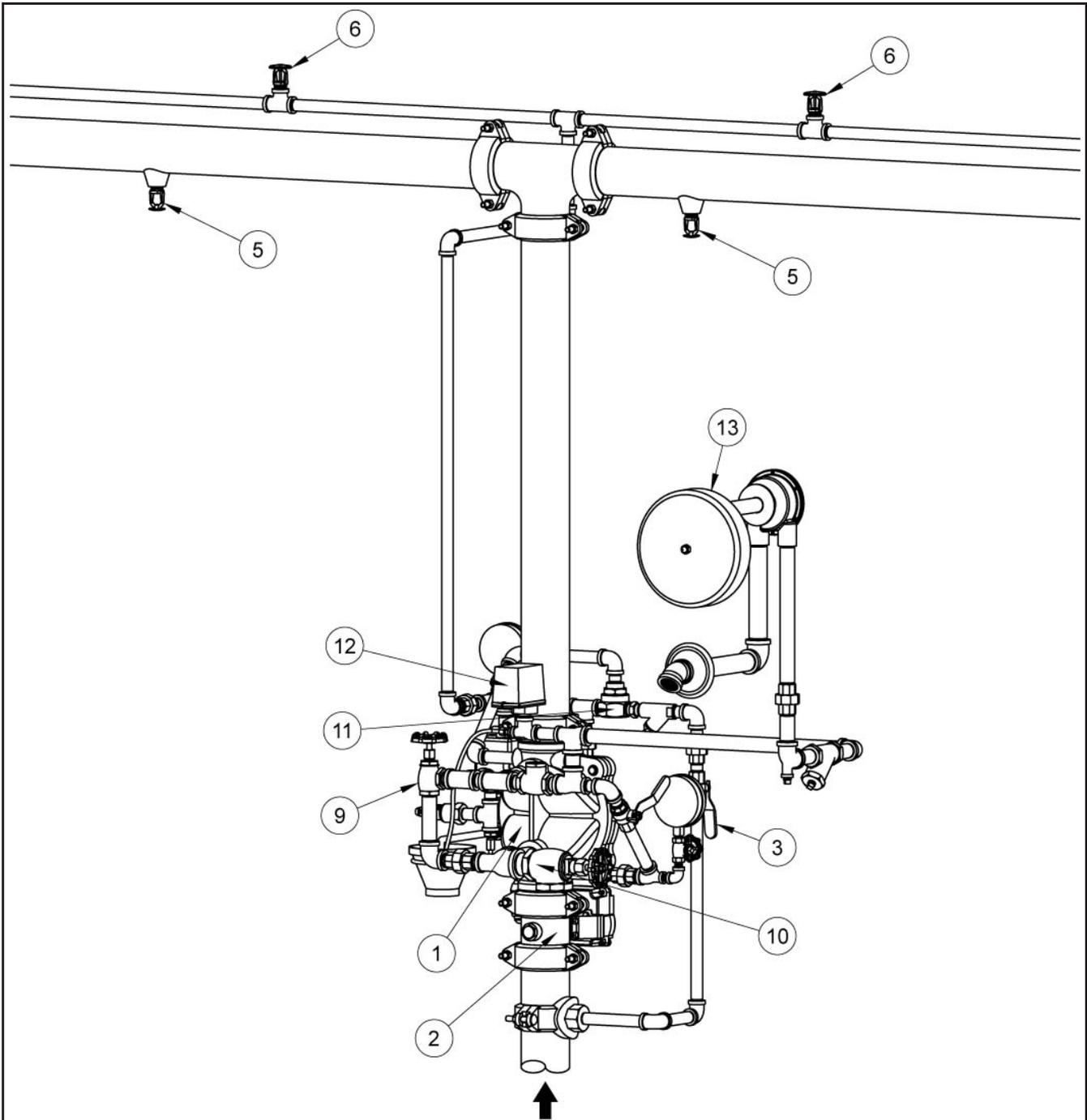
The owner is responsible for maintaining their fire protection system and devices in proper operating condition.

The installing contractor or manufacturer should be contacted with any questions.



- | | | |
|---|---|---|
| 1 - Model DV-5 Deluge Valve | 7 - Water Supply Pressure Gauge | 12 - Waterflow Pressure Alarm Switch (Shown at Rear of Valve) |
| 2 - Main Control Valve (N.O.) | 8 - Diaphragm Chamber Pressure Gauge | 13 - Water Motor Alarm (Optional) |
| 3 - Diaphragm Chamber Supply Control Valve (N.O.) | 9 - System Drain Valve (N.C.) | |
| 4 - Local Manual Control Station | 10 - Main Drain Valve (N.C.) (Shown at Rear of Valve) | |
| 5 - Open Nozzles or Sprinklers | 11 - Diaphragm Chamber Automatic Shut-Off Valve | |
| 6 - Wet Pilot Line Sprinklers (Fire Detection) | | |

**FIGURE 1 — PART 1 OF 2
SYSTEM SCHEMATIC (Front View) — WET PILOT ACTUATION**



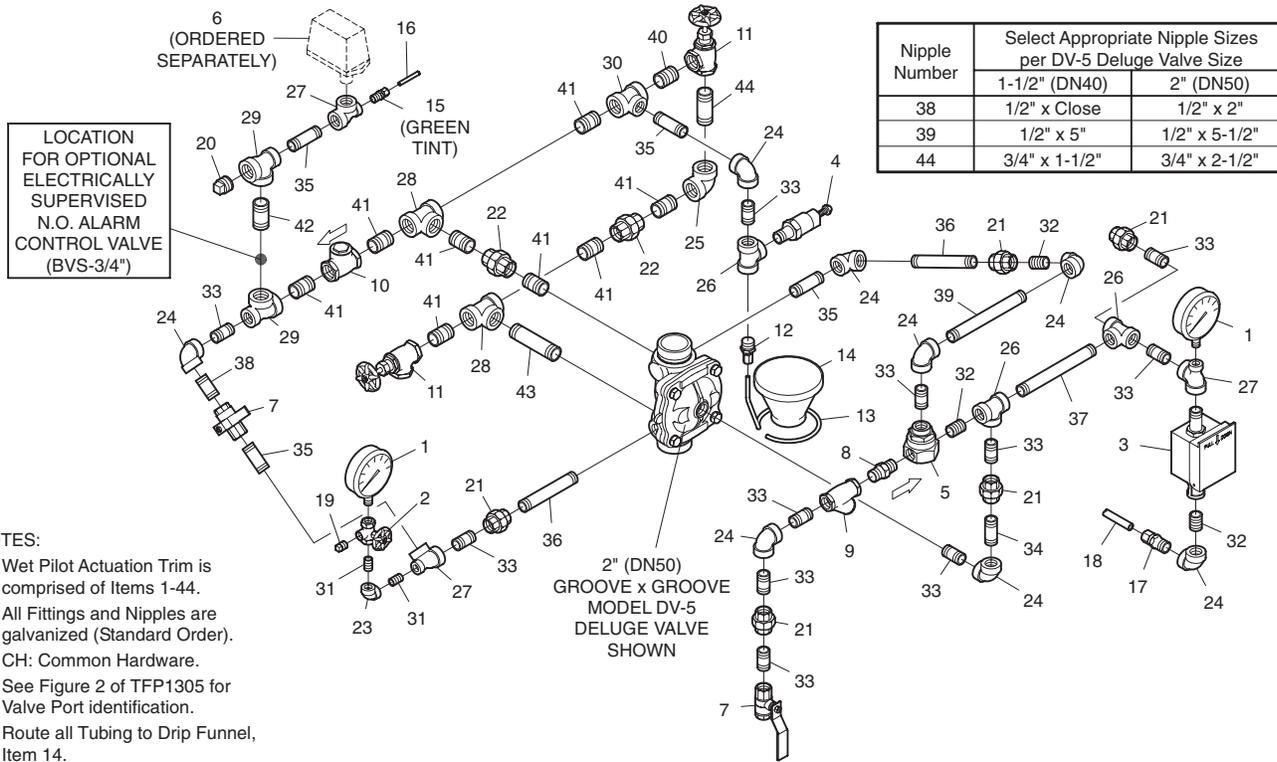
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|--|--|---|
| 1 - Model DV-5 Deluge Valve | 6 - Wet Pilot Line Sprinklers (Fire Detection) | 10 - Main Drain Valve (N.C.) |
| 2 - Main Control Valve (N.O.) | 7 - Water Supply Pressure Gauge (Shown at Front of Valve) | 11 - Diaphragm Chamber Automatic Shut-Off Valve |
| 3 - Diaphragm Chamber Supply Control Valve (N.O.) | 8 - Diaphragm Chamber Pressure Gauge (Shown at Front of Valve) | 12 - Waterflow Pressure Alarm Switch |
| 4 - Local Manual Control Station (Shown at Front of Valve) | 9 - System Drain Valve (N.C.) | 13 - Water Motor Alarm (Optional) |
| 5 - Open Nozzles or Sprinklers | | |

**FIGURE 1 — PART 2 OF 2
SYSTEM SCHEMATIC (Rear View) — WET PILOT ACTUATION**

NO.	DESCRIPTION	QTY.	P/N
1	300 psi/ 2000 kPa Water Pressure Gauge	2	92-343-1-005
2	1/4" Gauge Test Valve	1	46-005-1-002
3	Model MC-1 Manual Control Station	1	52-289-2-001
4	Model AD-1 Automatic Drain Valve	1	52-793-2-004
5	Automatic Shut-Off Valve, Model ASV-1	1	92-343-1-021
6	Waterflow Pressure Alarm Switch	Ordered Separately	
7	1/2" Ball Valve	2	46-050-1-004
8	1/2" Spring Loaded Check Valve	1	92-322-1-002
9	1/2" Y-Strainer	1	52-353-1-005
10	3/4" Swing Check Valve	1	46-049-1-005

NO.	DESCRIPTION	QTY.	P/N
11	3/4" Angle Valve	2	46-048-1-005
12	Drip Funnel Connector	1	92-211-1-005
13	Drip Funnel Bracket	1	92-211-1-003
14	Drip Funnel	1	92-343-1-007
15	3/32" Vent Fitting	1	92-032-1-002
16	1/4" x 18" Tubing	1	CH
17	1/2" Tubing Connector	1	CH
18	1/2" x 12" Tubing	1	CH
19	1/4" Plug	1	CH
20	3/4" Plug	1	CH
21	1/2" Union	5	CH
22	3/4" Union	2	CH
23	1/4" 90° Elbow	1	CH
24	1/2" 90° Elbow	8	CH
25	3/4" 90° Elbow	1	CH
26	1/2" Tee	3	CH

NO.	DESCRIPTION	QTY.	P/N
27	1/2" x 1/4" x 1/2" Tee	3	CH
28	3/4" Tee	2	CH
29	3/4" x 1/2" x 3/4" Tee	2	CH
30	3/4" x 3/4" x 1/2" Tee	1	CH
31	1/4" x Close Nipple	2	CH
32	1/2" x Close Nipple	3	CH
33	1/2" x 1-1/2" Nipple	11	CH
34	1/2" x 2" Nipple	1	CH
35	1/2" x 2-1/2" Nipple	4	CH
36	1/2" x 5" Nipple	2	CH
37	1/2" x 7" Nipple	1	CH
38	Select Nipple per Table	2	CH
39	Select Nipple per Table	2	CH
40	3/4" x Close Nipple	1	CH
41	3/4" x 1-1/2" Nipple	8	CH
42	3/4" x 2" Nipple	1	CH
43	3/4" x 4" Nipple	1	CH
44	Select Nipple per Table	2	CH



LOCATION FOR OPTIONAL ELECTRICALLY SUPERVISED N.O. ALARM CONTROL VALVE (BVS-3/4")

Nipple Number	Select Appropriate Nipple Sizes per DV-5 Deluge Valve Size	
	1-1/2" (DN40)	2" (DN50)
38	1/2" x Close	1/2" x 2"
39	1/2" x 5"	1/2" x 5-1/2"
44	3/4" x 1-1/2"	3/4" x 2-1/2"

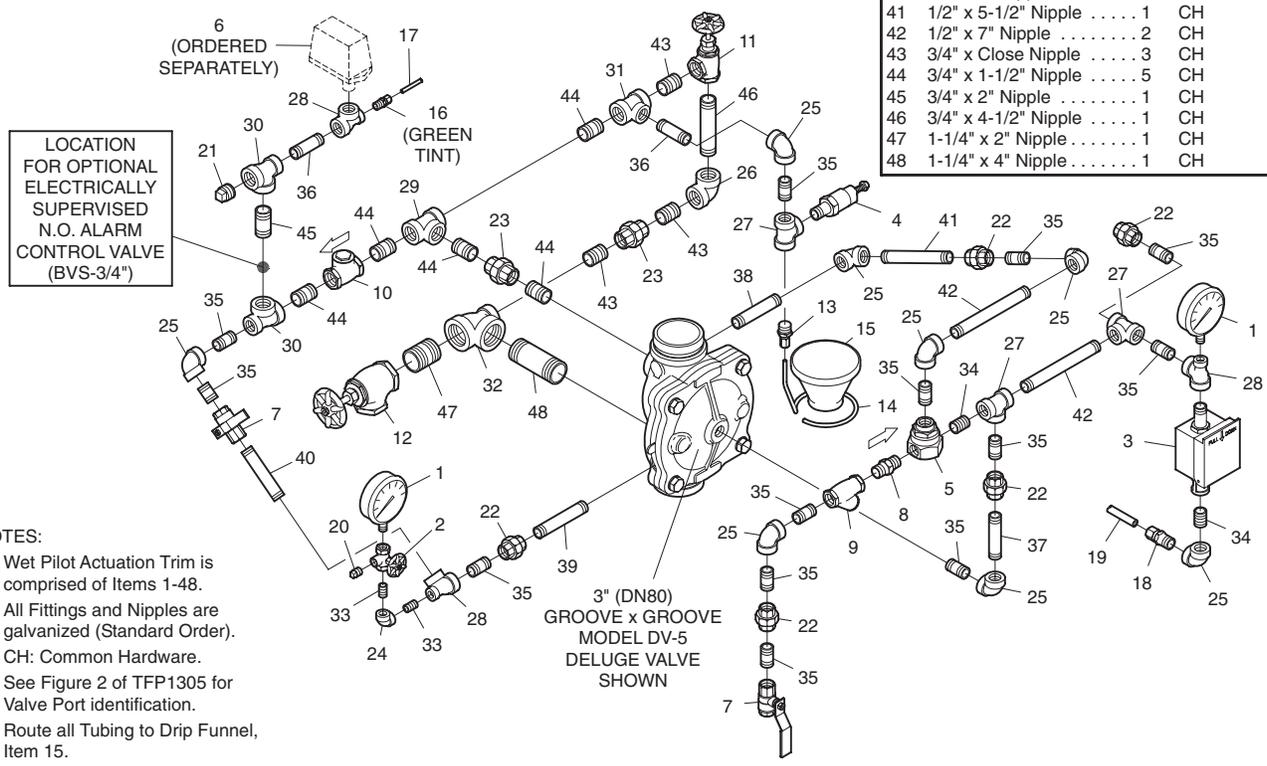
- NOTES:
1. Wet Pilot Actuation Trim is comprised of Items 1-44.
 2. All Fittings and Nipples are galvanized (Standard Order).
 3. CH: Common Hardware.
 4. See Figure 2 of TFP1305 for Valve Port identification.
 5. Route all Tubing to Drip Funnel, Item 14.

FIGURE 2A — PART 1 OF 3
1-1/2 and 2 INCH (DN40 and DN50) MODEL DV-5 DELUGE VALVES
— EXPLODED VIEW OF VERTICAL WET PILOT ACTUATION TRIM (52-477-X-107) —

NO.	DESCRIPTION	QTY.	P/N
1	300 psi/ 2000 kPa Water Pressure Gauge	2	92-343-1-005
2	1/4" Gauge Test Valve	1	46-005-1-002
3	Model MC-1 Manual		
4	Control Station	1	52-289-2-001
5	Model AD-1 Automatic Drain Valve	1	52-793-2-004
6	Automatic Shut-Off Valve, Model ASV-1	1	92-343-1-021
7	Waterflow Pressure Alarm Switch	1	Ordered Separately
8	1/2" Ball Valve	2	46-050-1-004
9	1/2" Spring Loaded Check Valve	1	92-322-1-002
10	1/2" Y-Strainer	1	52-353-1-005

NO.	DESCRIPTION	QTY.	P/N
10	3/4" Swing Check Valve	1	46-049-1-005
11	3/4" Angle Valve	1	46-048-1-005
12	1-1/4" Angle Valve	1	46-048-1-007
13	Drip Funnel Connector	1	92-211-1-005
14	Drip Funnel Bracket	1	92-211-1-003
15	Drip Funnel	1	92-343-1-007
16	3/32" Vent Fitting	1	92-032-1-002
17	1/4" x 18" Tubing	1	CH
18	1/2" Tubing Connector	1	CH
19	1/2" x 12" Tubing	1	CH
20	1/4" Plug	1	CH
21	3/4" Plug	1	CH
22	1/2" Union	5	CH
23	3/4" Union	2	CH
24	1/4" 90° Elbow	1	CH

NO.	DESCRIPTION	QTY.	P/N
25	1/2" 90° Elbow	8	CH
26	3/4" 90° Elbow	1	CH
27	1/2" Tee	3	CH
28	1/2" x 1/4" x 1/2" Tee	3	CH
29	3/4" Tee	1	CH
30	3/4" x 1/2" x 3/4" Tee	2	CH
31	3/4" x 3/4" x 1/2" Tee	1	CH
32	1-1/4" x 3/4" x 1-1/4" Tee	1	CH
33	1/4" x Close Nipple	2	CH
34	1/2" x Close Nipple	2	CH
35	1/2" x 1-1/2" Nipple	13	CH
36	1/2" x 2-1/2" Nipple	2	CH
37	1/2" x 3-1/2" Nipple	1	CH
38	1/2" x 4" Nipple	1	CH
39	1/2" x 4-1/2" Nipple	1	CH
40	1/2" x 5" Nipple	1	CH
41	1/2" x 5-1/2" Nipple	1	CH
42	1/2" x 7" Nipple	2	CH
43	3/4" x Close Nipple	3	CH
44	3/4" x 1-1/2" Nipple	5	CH
45	3/4" x 2" Nipple	1	CH
46	3/4" x 4-1/2" Nipple	1	CH
47	1-1/4" x 2" Nipple	1	CH
48	1-1/4" x 4" Nipple	1	CH



LOCATION FOR OPTIONAL ELECTRICALLY SUPERVISED N.O. ALARM CONTROL VALVE (BVS-3/4")

- NOTES:
1. Wet Pilot Actuation Trim is comprised of Items 1-48.
 2. All Fittings and Nipples are galvanized (Standard Order).
 3. CH: Common Hardware.
 4. See Figure 2 of TFP1305 for Valve Port identification.
 5. Route all Tubing to Drip Funnel, Item 15.

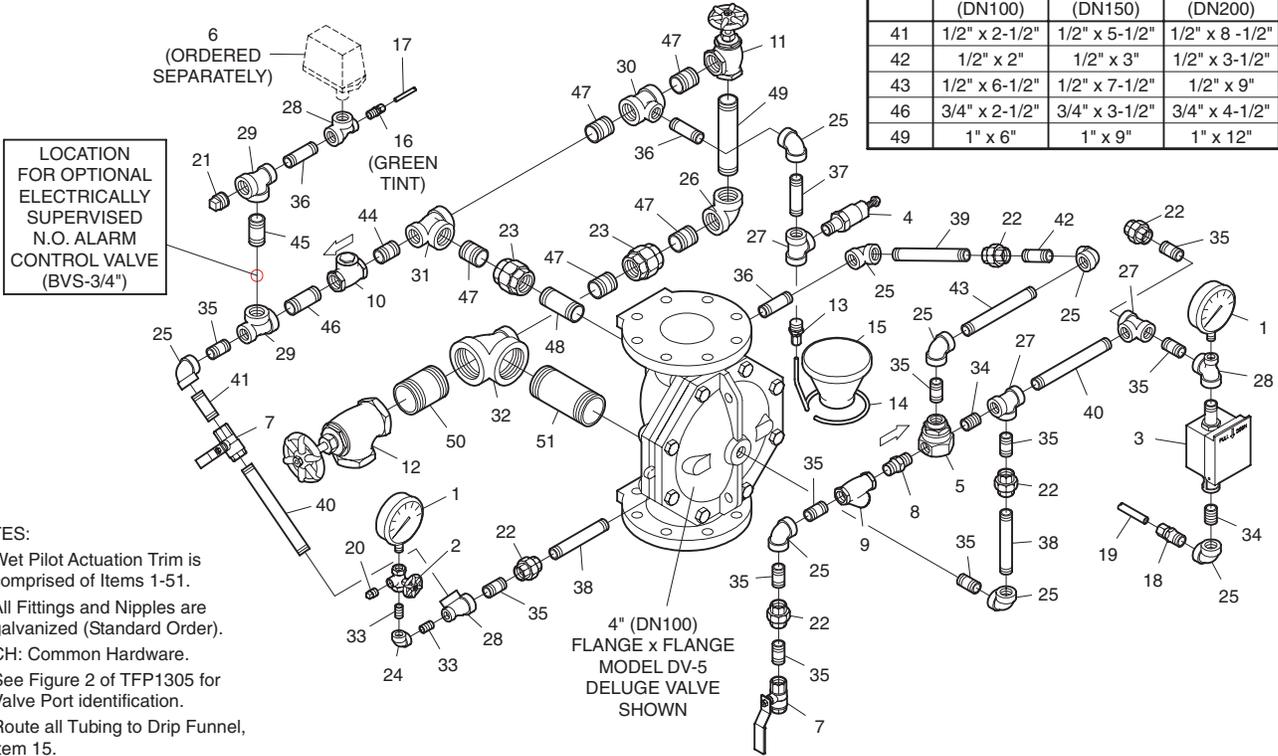
FIGURE 2A — PART 2 OF 3
3 INCH (DN80) MODEL DV-5 DELUGE VALVES
— EXPLODED VIEW OF VERTICAL WET PILOT ACTUATION TRIM (52-477-X-104) —

NO.	DESCRIPTION	QTY.	P/N
1	300 psi/ 2000 kPa		
	Water Pressure Gauge . . . 2	92-343-1-005	
2	1/4" Gauge Test Valve . . . 1	46-005-1-002	
3	Model MC-1 Manual		
	Control Station 1	52-289-2-001	
4	Model AD-1 Automatic		
	Drain Valve 1	52-793-2-004	
5	Automatic Shut-Off Valve,		
	Model ASV-1 1	92-343-1-021	
6	Waterflow Pressure	Ordered	
	Alarm Switch 1	Separately	
7	1/2" Ball Valve 2	46-050-1-004	
8	1/2" Spring Loaded		
	Check Valve 1	92-322-1-002	
9	1/2" Y-Strainer 1	52-353-1-005	
10	3/4" Swing Check Valve . . 1	46-049-1-005	
11	1" Angle Valve 1	46-048-1-006	
12	2" Angle Valve 1	46-048-1-009	
13	Drip Funnel Connector . . . 1	92-211-1-005	
14	Drip Funnel Bracket 1	92-211-1-003	

NO.	DESCRIPTION	QTY.	P/N
15	Drip Funnel 1	92-343-1-007	
16	3/32" Vent Fitting 1	92-032-1-002	
17	1/4" x 24" Tubing 1	CH	
18	1/2" Tubing Connector . . . 1	CH	
19	1/2" x 24" Tubing 1	CH	
20	1/4" Plug 1	CH	
21	3/4" Plug 1	CH	
22	1/2" Union 5	CH	
23	1" Union 2	CH	
24	1/4" 90° Elbow 1	CH	
25	1/2" 90° Elbow 8	CH	
26	1" 90° Elbow 1	CH	
27	1/2" Tee 3	CH	
28	1/2" x 1/4" x 1/2" Tee . . . 3	CH	
29	3/4" x 1/2" x 3/4" Tee . . . 2	CH	
30	1" x 1" x 1/2" Tee 1	CH	
31	1" x 3/4" x 1" Tee 1	CH	
32	2" x 1" x 2" Tee 1	CH	
33	1/4" x Close Nipple 2	CH	
34	1/2" x Close Nipple 2	CH	

NO.	DESCRIPTION	QTY.	P/N
35	1/2" x 1-1/2" Nipple 10	CH	
36	1/2" x 2-1/2" Nipple 3	CH	
37	1/2" x 3" Nipple 1	CH	
38	1/2" x 5" Nipple 2	CH	
39	1/2" x 6" Nipple 1	CH	
40	1/2" x 7" Nipple 2	CH	
41	Select Nipple per Table . . 2	CH	
42	Select Nipple per Table . . 2	CH	
43	Select Nipple per Table . . 2	CH	
44	3/4" x 1-1/2" Nipple 1	CH	
45	3/4" x 2" Nipple 1	CH	
46	Select Nipple per Table . . 2	CH	
47	1" x Close Nipple 5	CH	
48	1" x 3" Nipple 1	CH	
49	Select Nipple per Table . . 2	CH	
50	2" x 3" Nipple 1	CH	
51	2" x 5" Nipple 1	CH	

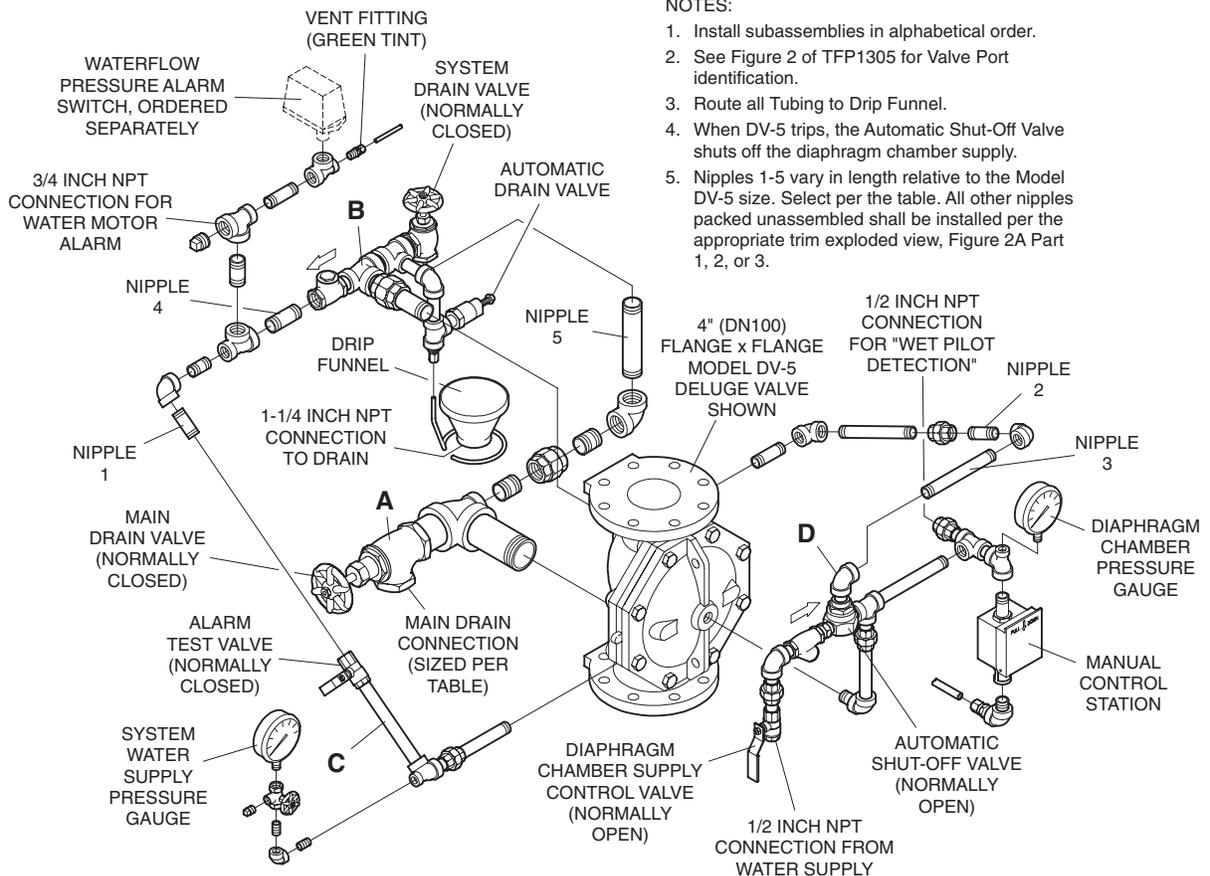
Nipple No.	Select Appropriate Nipple Sizes per DV-5 Deluge Valve Size		
	4" (DN100)	6" (DN150)	8" (DN200)
41	1/2" x 2-1/2"	1/2" x 5-1/2"	1/2" x 8-1/2"
42	1/2" x 2"	1/2" x 3"	1/2" x 3-1/2"
43	1/2" x 6-1/2"	1/2" x 7-1/2"	1/2" x 9"
46	3/4" x 2-1/2"	3/4" x 3-1/2"	3/4" x 4-1/2"
49	1" x 6"	1" x 9"	1" x 12"



- NOTES:
1. Wet Pilot Actuation Trim is comprised of Items 1-51.
 2. All Fittings and Nipples are galvanized (Standard Order).
 3. CH: Common Hardware.
 4. See Figure 2 of TFP1305 for Valve Port identification.
 5. Route all Tubing to Drip Funnel, Item 15.

FIGURE 2A — PART 3 OF 3
4, 6, and 8 INCH (DN100, DN150, and DN200) MODEL DV-5 DELUGE VALVES
— EXPLODED VIEW OF VERTICAL WET PILOT ACTUATION TRIM (52-477-X-101) —

Nipple Number	Select Appropriate Nipple Sizes per DV-5 Deluge Valve Size					
	1-1/2" (DN40)	2" (DN50)	3" (DN80)	4" (DN100)	6" (DN150)	8" (DN200)
1	1/2" x Close	1/2" x 2"	1/2" x 1-1/2"	1/2" x 2-1/2"	1/2" x 5-1/2"	1/2" x 8-1/2"
2	1/2" x Close	1/2" x Close	1/2" x 1-1/2"	1/2" x 2"	1/2" x 3"	1/2" x 3-1/2"
3	1/2" x 5"	1/2" x 5-1/2"	1/2" x 7"	1/2" x 6-1/2"	1/2" x 7-1/2"	1/2" x 9"
4	3/4" x 1-1/2"	3/4" x 1-1/2"	3/4" x 1-1/2"	3/4" x 2-1/2"	3/4" x 3-1/2"	3/4" x 4-1/2"
5	3/4" x 1-1/2"	3/4" x 2-1/2"	3/4" x 4-1/2"	1" x 6"	1" x 9"	1" x 12"
Main Drain Size	3/4" NPT	3/4" NPT	1-1/4" NPT	2" NPT	2" NPT	2" NPT



- NOTES:
1. Install subassemblies in alphabetical order.
 2. See Figure 2 of TFP1305 for Valve Port identification.
 3. Route all Tubing to Drip Funnel.
 4. When DV-5 trips, the Automatic Shut-Off Valve shuts off the diaphragm chamber supply.
 5. Nipples 1-5 vary in length relative to the Model DV-5 size. Select per the table. All other nipples packed unassembled shall be installed per the appropriate trim exploded view, Figure 2A Part 1, 2, or 3.

FIGURE 2B
1-1/2 thru 8 INCH (DN40 thru DN200) MODEL DV-5 DELUGE VALVES
— OPERATIONAL COMPONENTS OF VERTICAL WET PILOT ACTUATION TRIM —

Technical Data

Approvals:
 UL Listed, C-UL Listed, and FM Approved.

Valve Trim:
 The Vertical Wet Pilot Actuation Trim (Fig. 2A/2B) and Horizontal Wet Pilot Actuation Trim (Fig. 4) form a part of the laboratory listings and approvals for the DV-5 Valve and is necessary for its proper operation.

Each package of trim includes the following items:

- Water Supply Pressure Gauge
- Diaphragm Chamber Pressure Gauge
- Diaphragm Chamber Connections
- Manual Control Station
- Main Drain Valve
- System Drain Valve
- Alarm Test Valve
- Automatic Drain Valve

To ease field assembly of the trim arrangement, the vertical trim components are provided partially assembled as shown in Figure 2B.

The trim arrangement is provided with galvanized, black, or brass nipples and

fittings. The galvanized and brass trim are intended for non-corrosive or corrosive conditions, whereas the black trim is principally intended for use with AFFF systems.

NOTE

When the system pressure is greater than 175 psi (12,1 bar), provision is to be made to replace the standard order 300 psi (20,7 bar) Water Pressure Gauges, shown in Figure 2A/2B and 4 with separately ordered 600 psi (41,4 bar) Water Pressure Gauges.

The Wet Pilot Actuation Trim provides for connection of a detection system consisting of wet pilot line sprinklers (heat detectors) and manual control

Valve Size	Nominal Installation Dimensions in Inches and (mm)											
	A	B	C	D	E	F	G	H	J	K	L	M
1-1/2" (DN40)	7.00 (177,8)	8.88 (225,4)	13.19 (335,0)	10.50 (266,7)	15.25 (387,4)	1.25 (31,8)	5.81 (147,6)	1.81 (46,0)	3.00 (76,2)	7.00 (177,8)	3.88 (98,4)	8.00 (204,0)
2" (DN50)	7.13 (181,0)	9.13 (231,8)	13.19 (335,0)	10.50 (266,7)	15.56 (395,3)	0.94 (23,8)	6.00 (152,4)	2.00 (50,8)	3.00 (76,2)	7.00 (177,8)	3.00 (76,2)	8.63 (220,0)
3" (DN80)	7.81 (198,4)	10.44 (265,1)	13.19 (335,0)	10.50 (266,7)	19.13 (485,8)	1.63 (41,3)	6.69 (170,0)	2.69 (68,3)	4.25 (108,0)	7.00 (177,8)	0.88 (22,2)	12.75 (324,0)
4" (DN100)	10.00 (254,0)	11.75 (298,5)	14.31 (363,5)	10.50 (266,7)	22.13 (562,0)	1.75 (44,5)	8.56 (217,5)	4.44 (112,7)	6.25 (158,8)	7.13 (181,0)	0.63 (15,9)	15.75 (400,0)
6" (DN150)	11.38 (289,0)	14.31 (363,5)	15.31 (388,9)	10.50 (266,7)	23.31 (592,1)	3.50 (88,9)	9.94 (252,4)	5.81 (147,6)	6.25 (158,8)	7.13 (181,0)	1.81 (46,0)	18.13 (460,4)
8" (DN200)	12.00 (304,8)	16.00 (406,4)	16.25 (412,8)	10.50 (266,7)	25.50 (647,7)	1.75 (44,5)	10.75 (273,1)	6.50 (165,1)	6.25 (158,8)	7.13 (181,0)	7.38 (187,3)	22.50 (570,0)

* MINIMUM CLEARANCE.

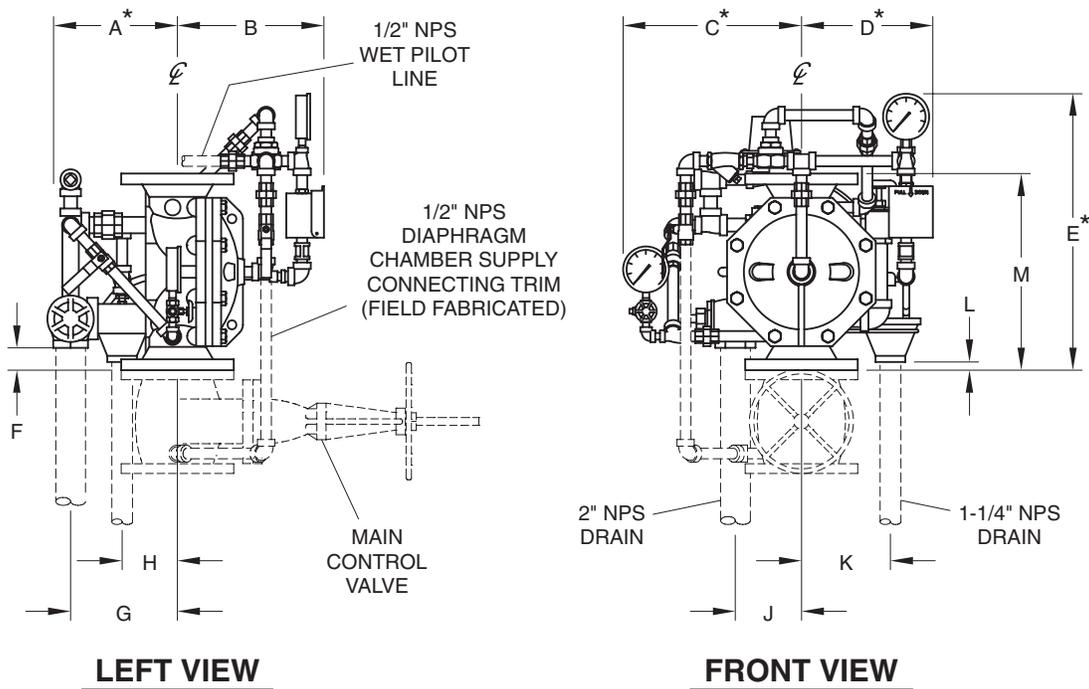


FIGURE 3
1-1/2 thru 8 INCH (DN40 thru DN200) MODEL DV-5 DELUGE VALVE
— VERTICAL WET PILOT ACTUATION / NOMINAL INSTALLATION DIMENSIONS —

stations interconnected with minimum 1/2 inch (DN15) Schedule 40 steel pipe. The pilot line is connected to the "Wet Pilot Detection" connection shown in Figure 2B. Nominal installation dimensions for the Vertical Wet Pilot Actuation Trim are shown in Figure 3.

Pilot sprinklers are to be minimum 5.6 K-factor orifice listed or approved automatic sprinklers. Manual Control Stations are to be the Model MC-1 described in Technical Data Sheet TD1382.

The maximum height of a wet pilot line above the DV-5 Valve must not exceed the limitations shown in Graph A as a

function of the minimum water supply pressure to the DV-5 Valve for an equivalent length (pipe plus fittings) of the pilot line up to 500 feet to the most remote pilot sprinkler.

Provision must be made for installing a 5.6 K-factor orifice, Inspector's Test Connection at the most hydraulically demanding location of a wet pilot line (usually adjacent to the highest and most remote wet pilot sprinkler or manual control station).

NOTES

Wet Pilot Lines must be maintained at a minimum temperature of 40°F/4°C.

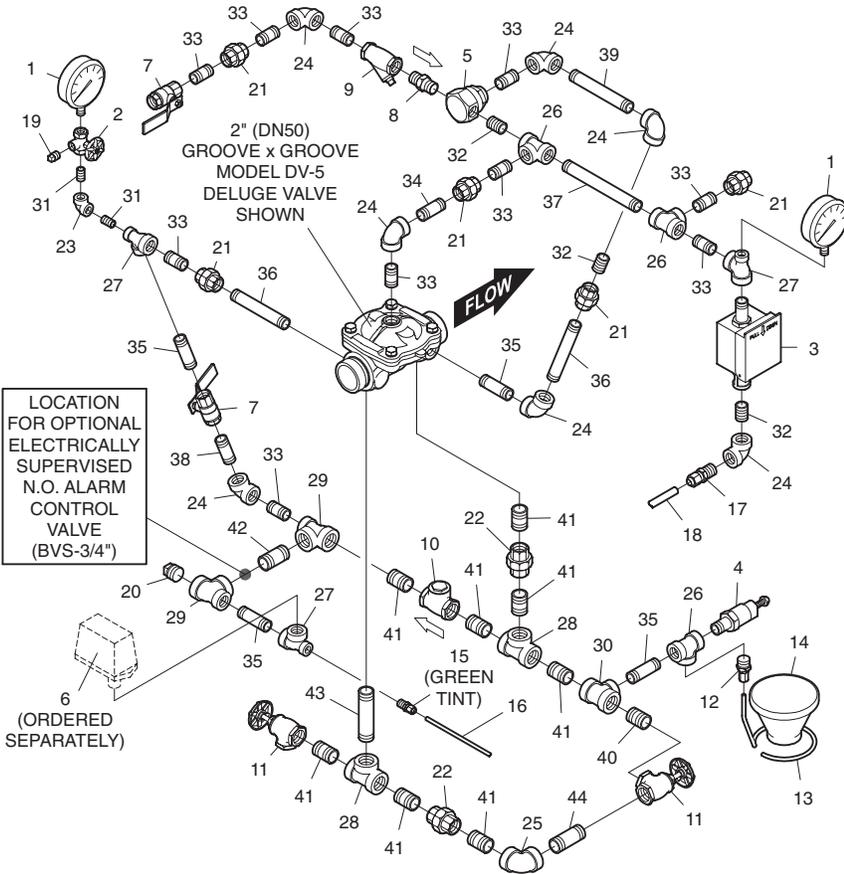
At a minimum, it is recommended that

internally galvanized pipe and cast iron fittings be used for wet pilot lines.

NO.	DESCRIPTION	QTY.	P/N
1	300 psi/ 2000 kPa Water Pressure Gauge . . . 2	2	92-343-1-005
2	1/4" Gauge Test Valve . . . 1	1	46-005-1-002
3	Model MC-1 Manual Control Station 1	1	52-289-2-001
4	Model AD-1 Automatic Drain Valve 1	1	52-793-2-004
5	Automatic Shut-Off Valve, Model ASV-1 1	1	92-343-1-021
6	Waterflow Pressure Alarm Switch 1	1	Ordered Separately

NO.	DESCRIPTION	QTY.	P/N
7	1/2" Ball Valve 2	2	46-050-1-004
8	1/2" Spring Loaded Check Valve 1	1	92-322-1-002
9	1/2" Y-Strainer 1	1	52-353-1-005
10	3/4" Swing Check Valve . . 1	1	46-049-1-005
11	3/4" Angle Valve 2	2	46-048-1-005
12	Drip Funnel Connector . . . 1	1	92-211-1-005
13	Drip Funnel Bracket 1	1	92-211-1-003
14	Drip Funnel 1	1	92-343-1-007
15	3/32" Vent Fitting 1	1	92-032-1-002
16	1/4" x 18" Tubing 1	1	CH

NO.	DESCRIPTION	QTY.	P/N
17	1/2" Tubing Connector . . . 1	1	CH
18	1/2" x 12" Tubing 1	1	CH
19	1/4" Plug 1	1	CH
20	3/4" Plug 1	1	CH
21	1/2" Union 5	5	CH
22	3/4" Union 2	2	CH
23	1/4" 90° Elbow 1	1	CH
24	1/2" 90° Elbow 8	8	CH
25	3/4" 90° Elbow 1	1	CH
26	1/2" Tee 3	3	CH
27	1/2" x 1/4" x 1/2" Tee . . . 3	3	CH
28	3/4" Tee 2	2	CH
29	3/4" x 1/2" x 3/4" Tee . . . 2	2	CH
30	3/4" x 3/4" x 1/2" Tee . . . 1	1	CH
31	1/4" x Close Nipple 2	2	CH
32	1/2" x Close Nipple 3	3	CH
33	1/2" x 1-1/2" Nipple 11	11	CH
34	1/2" x 2" Nipple 1	1	CH
35	1/2" x 2-1/2" Nipple 4	4	CH
36	1/2" x 5" Nipple 2	2	CH
37	1/2" x 7" Nipple 1	1	CH
38	Select Nipple per Table . . 2	2	CH
39	Select Nipple per Table . . 2	2	CH
40	3/4" x Close Nipple 1	1	CH
41	3/4" x 1-1/2" Nipple 8	8	CH
42	3/4" x 2" Nipple 1	1	CH
43	3/4" x 4" Nipple 1	1	CH
44	Select Nipple per Table . . 2	2	CH



Nipple Number	Select Appropriate Nipple Sizes per DV-5 Deluge Valve Size	
	1-1/2" (DN40)	2" (DN50)
38	1/2" x Close	1/2" x 2"
39	1/2" x 5"	1/2" x 5-1/2"
44	3/4" x 1-1/2"	3/4" x 2-1/2"

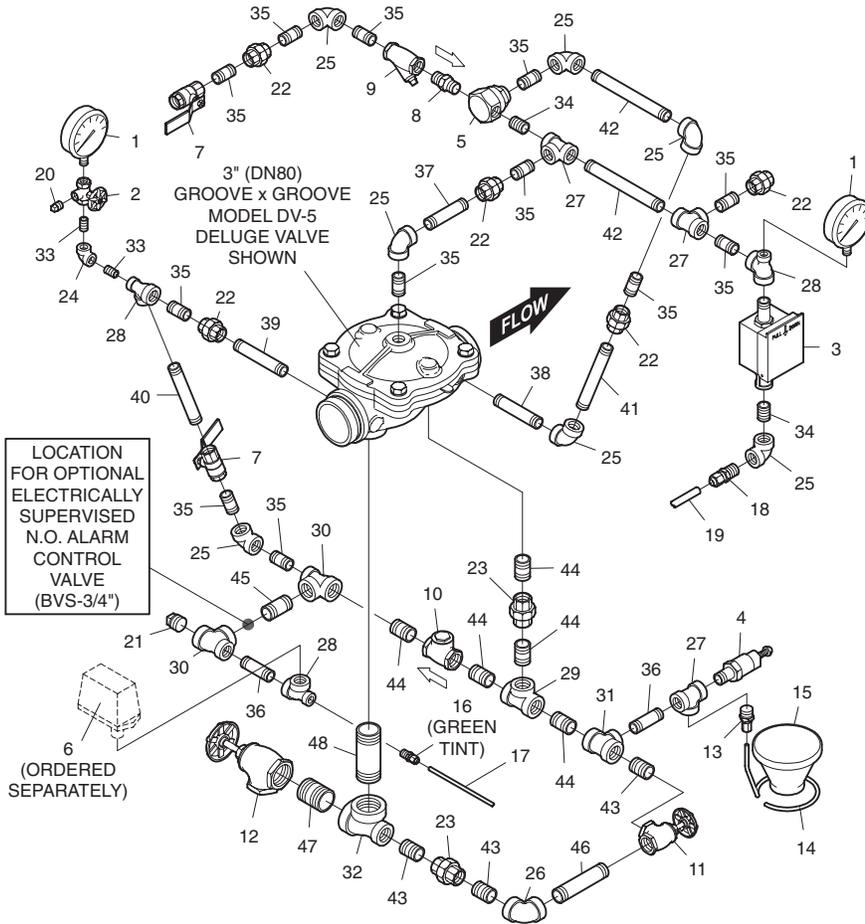
- NOTES:
1. Wet Pilot Actuation Trim is comprised of Items 1-44.
 2. All Fittings and Nipples are galvanized (Standard Order).
 3. CH: Common Hardware.
 4. See Figure 2 of TFP1305 for Valve Port identification.
 5. Route all Tubing to Drip Funnel, Item 14.
 6. Horizontal Arrangement uses only 7 out of 8 of Item 24, and 10 out of 11 of Item 33. Discard unused material.

**FIGURE 4 — PART 1 OF 3
1-1/2 and 2 INCH (DN40 and DN50) MODEL DV-5 DELUGE VALVES
— EXPLODED VIEW OF HORIZONTAL WET PILOT ACTUATION TRIM (52-477-X-207) —**

NO.	DESCRIPTION	QTY.	P/N
1	300 psi/ 2000 kPa Water Pressure Gauge	2	92-343-1-005
2	1/4" Gauge Test Valve	1	46-005-1-002
3	Model MC-1 Manual Control Station	1	52-289-2-001
4	Model AD-1 Automatic Drain Valve	1	52-793-2-004
5	Automatic Shut-Off Valve, Model ASV-1	1	92-343-1-021

NO.	DESCRIPTION	QTY.	P/N
6	Waterflow Pressure Alarm Switch	1	Ordered Separately
7	1/2" Ball Valve	2	46-050-1-004
8	1/2" Spring Loaded Check Valve	1	92-322-1-002
9	1/2" Y-Strainer	1	52-353-1-005
10	3/4" Swing Check Valve	1	46-049-1-005
11	3/4" Angle Valve	1	46-048-1-005
12	1-1/4" Angle Valve	1	46-048-1-007

NO.	DESCRIPTION	QTY.	P/N
13	Drip Funnel Connector	1	92-211-1-005
14	Drip Funnel Bracket	1	92-211-1-003
15	Drip Funnel	1	92-343-1-007
16	3/32" Vent Fitting	1	92-032-1-002
17	1/4" x 18" Tubing	1	CH
18	1/2" Tubing Connector	1	CH
19	1/2" x 12" Tubing	1	CH
20	1/4" Plug	1	CH
21	3/4" Plug	1	CH
22	1/2" Union	5	CH
23	3/4" Union	2	CH
24	1/4" 90° Elbow	1	CH
25	1/2" 90° Elbow	8	CH
26	3/4" 90° Elbow	1	CH
27	1/2" Tee	3	CH
28	1/2" x 1/4" x 1/2" Tee	3	CH
29	3/4" Tee	1	CH
30	3/4" x 1/2" x 3/4" Tee	2	CH
31	3/4" x 3/4" x 1/2" Tee	1	CH
32	1-1/4" x 3/4" x 1-1/4" Tee	1	CH
33	1/4" x Close Nipple	2	CH
34	1/2" x Close Nipple	2	CH
35	1/2" x 1-1/2" Nipple	13	CH
36	1/2" x 2-1/2" Nipple	2	CH
37	1/2" x 3-1/2" Nipple	1	CH
38	1/2" x 4" Nipple	1	CH
39	1/2" x 4-1/2" Nipple	1	CH
40	1/2" x 5" Nipple	1	CH
41	1/2" x 5-1/2" Nipple	1	CH
42	1/2" x 7" Nipple	2	CH
43	3/4" x Close Nipple	3	CH
44	3/4" x 1-1/2" Nipple	5	CH
45	3/4" x 2" Nipple	1	CH
46	3/4" x 4-1/2" Nipple	1	CH
47	1-1/4" x 2" Nipple	1	CH
48	1-1/4" x 4" Nipple	1	CH



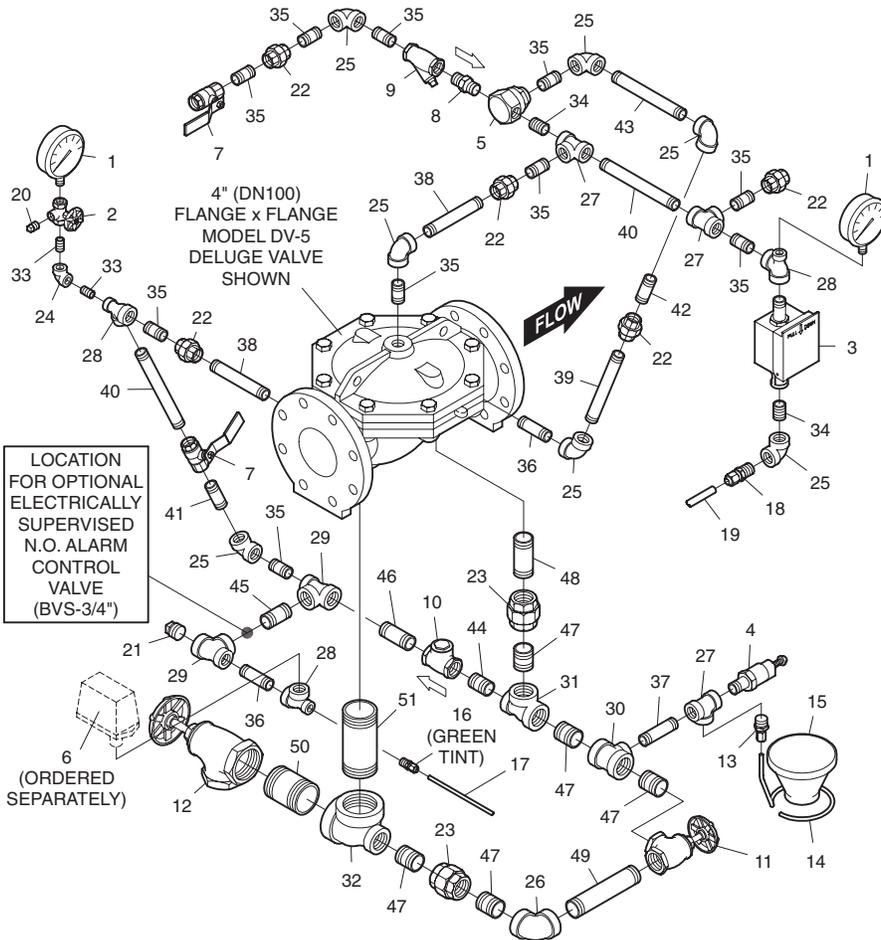
- NOTES:
1. Wet Pilot Actuation Trim is comprised of Items 1-48.
 2. All Fittings and Nipples are galvanized (Standard Order).
 3. CH: Common Hardware.
 4. See Figure 2 of TFP1305 for Valve Port identification.
 5. Route all Tubing to Drip Funnel, Item 15.
 6. Horizontal Arrangement uses only 7 out of 8 of Item 25, and 12 out of 13 of Item 35. Discard unused material.

**FIGURE 4 — PART 2 OF 3
3 INCH (DN80) MODEL DV-5 DELUGE VALVES
— EXPLODED VIEW OF HORIZONTAL WET PILOT ACTUATION TRIM (52-477-X-204) —**

NO.	DESCRIPTION	QTY.	P/N
1	300 psi/ 2000 kPa Water Pressure Gauge	2	92-343-1-005
2	1/4" Gauge Test Valve	1	46-005-1-002
3	Model MC-1 Manual Control Station	1	52-289-2-001
4	Model AD-1 Automatic Drain Valve	1	52-793-2-004
5	Automatic Shut-Off Valve, Model ASV-1	1	92-343-1-021
6	Waterflow Pressure Alarm Switch	1	Ordered Separately
7	1/2" Ball Valve	2	46-050-1-004

NO.	DESCRIPTION	QTY.	P/N
8	1/2" Spring Loaded Check Valve	1	92-322-1-002
9	1/2" Y-Strainer	1	52-353-1-005
10	3/4" Swing Check Valve	1	46-049-1-005
11	1" Angle Valve	1	46-048-1-006
12	2" Angle Valve	1	46-048-1-009
13	Drip Funnel Connector	1	92-211-1-005
14	Drip Funnel Bracket	1	92-211-1-003
15	Drip Funnel	1	92-343-1-007
16	3/32" Vent Fitting	1	92-032-1-002
17	1/4" x 24" Tubing	1	CH
18	1/2" Tubing Connector	1	CH

NO.	DESCRIPTION	QTY.	P/N
19	1/2" x 24" Tubing	1	CH
20	1/4" Plug	1	CH
21	3/4" Plug	1	CH
22	1/2" Union	5	CH
23	1" Union	2	CH
24	1/4" 90° Elbow	1	CH
25	1/2" 90° Elbow	8	CH
26	1" 90° Elbow	1	CH
27	1/2" Tee	3	CH
28	1/2" x 1/4" x 1/2" Tee	3	CH
29	3/4" x 1/2" x 3/4" Tee	2	CH
30	1" x 1" x 1/2" Tee	1	CH
31	1" x 3/4" x 1" Tee	1	CH
32	2" x 1" x 2" Tee	1	CH
33	1/4" x Close Nipple	2	CH
34	1/2" x Close Nipple	2	CH
35	1/2" x 1-1/2" Nipple	10	CH
36	1/2" x 2-1/2" Nipple	3	CH
37	1/2" x 3" Nipple	1	CH
38	1/2" x 5" Nipple	2	CH
39	1/2" x 6" Nipple	1	CH
40	1/2" x 7" Nipple	2	CH
41	Select Nipple per Table	2	CH
42	Select Nipple per Table	2	CH
43	Select Nipple per Table	2	CH
44	3/4" x 1-1/2" Nipple	1	CH
45	3/4" x 2" Nipple	1	CH
46	Select Nipple per Table	2	CH
47	1" x Close Nipple	5	CH
48	1" x 3" Nipple	1	CH
49	Select Nipple per Table	2	CH
50	2" x 3" Nipple	1	CH
51	2" x 5" Nipple	1	CH



Nipple No.	Select Appropriate Nipple Sizes per DV-5 Deluge Valve Size		
	4" (DN100)	6" (DN150)	8" (DN200)
41	1/2" x 2-1/2"	1/2" x 5-1/2"	1/2" x 8-1/2"
42	1/2" x 2"	1/2" x 3"	1/2" x 3-1/2"
43	1/2" x 6-1/2"	1/2" x 7-1/2"	1/2" x 9"
46	3/4" x 2-1/2"	3/4" x 3-1/2"	3/4" x 4-1/2"
49	1" x 6"	1" x 9"	1" x 12"

- NOTES:
1. Wet Pilot Actuation Trim is comprised of Items 1-51.
 2. All Fittings and Nipples are galvanized (Standard Order).
 3. CH: Common Hardware.
 4. See Figure 2 of TFP1305 for Valve Port identification.
 5. Route all Tubing to Drip Funnel, Item 15.
 6. Horizontal Arrangement uses only 7 out of 8 of Item 25, and 2 out of 3 of Item 36. Discard unused material.

FIGURE 4 — PART 3 OF 3
4, 6 and 8 INCH (DN100, DN150, and DN200) MODEL DV-5 DELUGE VALVES
— EXPLODED VIEW OF HORIZONTAL WET PILOT ACTUATION TRIM (52-477-X-201) —

Supply Pressure, ⁽¹⁾ PSI (Bar)	Maximum Pilot Height, ⁽²⁾ Feet (Meters)					
	1-1/2" (DN40)	2" (DN50)	3" (DN80)	4" (DN100)	6" (DN150)	8" (DN200)
20 (1,4)	7 (1,4)	3 (0,9)	7 (1,4)	17 (5,2)	18 (5,5)	9 (2,7)
40 (2,8)	24 (7,3)	19 (5,8)	30 (9,1)	39 (11,9)	38 (11,6)	38 (11,6)
60 (4,1)	46 (14,0)	38 (11,6)	52 (15,8)	54 (16,5)	56 (17,1)	44 (13,4)
80 (5,5)	58 (17,8)	54 (16,5)	70 (21,3)	60 (18,3)	70 (21,3)	58 (17,8)
100 (6,9)	78 (23,8)	78 (23,8)	93 (28,3)	78 (23,8)	99 (30,2)	65 (19,8)
120 (8,3)	87 (26,5)	87 (26,5)	117 (35,7)	115 (35,10)	130 (39,6)	96 (29,3)
140 (9,7)	105 (32,0)	107 (32,6)	139 (42,4)	142 (43,3)	154 (46,9)	141 (43,0)
160 (11,0)	127 (38,7)	123 (37,5)	161 (49,1)	176 (53,6)	161 (49,1)	170 (51,8)
175 (12,1)	134 (40,8)	138 (42,1)	172 (52,4)	171 (52,1)	194 (59,1)	194 (50,1)
200 (13,8)	160 (48,8)	160 (48,8)	206 (62,8)	223 (68,0)	216 (65,8)	206 (62,8)
225 (15,5)	185 (56,4)	166 (50,6)	237 (72,2)	233 (71,0)	246 (75,0)	250 (76,2)
250 (17,2)	201 (61,3)	199 (60,7)	251 (76,5)	247 (75,3)	275 (83,8)	257 (78,3)

⁽¹⁾ If supply pressure is variable, assume minimum expected value.

⁽²⁾ Maximum pilot height for up to 500 feet (150 meters) of equivalent length of pilot line (pipe plus fittings).

⁽³⁾ Interpolation between data points is permitted.

TABLE A
1-1/2 thru 8 INCH (DN40 thru DN200) MODEL DV-5 DELUGE VALVE
WET PILOT DESIGN CRITERIA FOR UP TO
500 FEET OF EQUIVALENT LENGTH OF PILOT LINE (PIPE PLUS FITTINGS)

Materials Of Construction

NOTES

The galvanized or brass, nipples and fittings for the Valve Trim provide corrosion resistance and are intended to extend the life of the installation of the DV-5 Valve when exposed to internal and external corrosive conditions. Although these selections are intended to resist corrosion, it is recommended that the end user or other technical expert familiar with conditions at the proposed installation be consulted with respect to these selections for a given corrosive condition.

Systems using a seawater or brackish water supply require special considerations in order to extend the life of the valve and trim. This type of system ideally should be configured with a primary source of clean fresh water (e.g., a pressurized water tank) and only upon system operation is the secondary water supply (seawater or brackish water) allowed to enter the system. After the system operation, the system should then be thoroughly flushed with clean fresh water. Following this recommendation will increase the service life of the DV-5 Valve and Valve Trim.

Pressure Gauges. Bronze bourdon tube with brass socket.

Gauge Test Valve. Bronze body per ASTM B584.

Manual Control Station. Corrosion resistant copper alloys and glass filled PTFE seals. Thermoplastic enclosure.

Automatic Drain Valve. Brass body per ASTM B584, Type 440 stainless steel or brass per ASTM B134 Ball, and galvanized steel inlet.

Automatic Shut-Off Valve. Brass body, cover, and center seat per UNS C36000, Type 316 stainless steel spring, and Nylon fabric reinforced, natural rubber diaphragm per ASTM D2000.

Ball Valve. Corrosion resistant copper alloys and glass filled PTFE seals.

Spring Loaded Check Valve. Brass body and buna-n seal.

Y-Strainer. Bronze body per ASTM B584 and Type 304 stainless steel screen.

Swing Check Valve. Bronze body per ASTM B584 and buna-n seal.

Angle Valve. Bronze body per ASTM B584 and nitrile disc (Teflon disc for 2 inch size valve).

3/32" Vent Fitting. Brass per ASTM B16.

Tubing Connector. Brass per ASTM B16.

Tubing. Type L copper per ASTM B88.

Pipe Fittings. Galvanized malleable iron per ANSI B16.3 or cast iron per ANSI B16.4; black malleable iron per ANSI B16.3 or cast iron per ANSI B16.4; or, bronze per ANSI B16.15.

Pipe Nipples. Schedule 40 galvanized steel per ASTM A53 or A135; Schedule 40 black steel per ASTM A53 or A135; or, Schedule 40 red brass pipe per ASTM B43.

Installation

NOTES

Proper operation of the Model DV-5 Deluge Valves depends upon their trim being installed in accordance with the instructions given in this Technical Data Sheet. Failure to follow the appropriate trim diagram may prevent the DV-5 Valve from functioning properly, as well as void listings, approvals, and the manufacturer's warranties.

The DV-5 Valve must be installed in a readily visible and accessible location.

The DV-5 Valve, associated trim, and wet pilot lines must be maintained at a minimum temperature of 40°F/4°C.

Heat tracing of the DV-5 Valve or its associated trim is not permitted. Heat tracing can result in the formation of hardened mineral deposits that are capable of preventing proper operation.

The Model DV-5 Deluge Valve is to be installed in accordance with the following criteria:

Step 1. All nipples, fittings, and devices must be clean and free of scale and burrs before installation. Use pipe thread sealant sparingly on male pipe threads only.

Step 2. The DV-5 Valve must be trimmed in accordance with Figure 2A/2B or 4.

Step 3. Care must be taken to ensure that check valves, strainers, globe valves, etc. are installed with the flow arrows in the proper direction.

Step 4. Drain tubing to the drip funnel must be installed with smooth bends that will not restrict flow.

Step 5. The main drain and drip funnel drain may be interconnected provided a check valve is located at least 12 inches (300 mm) below the drip funnel.

Step 6. Suitable provision must be made for disposal of drain water. Drainage water must be directed such that it will not cause accidental damage to property or danger to persons.

Step 7. Connect the Diaphragm Chamber Supply Control Valve to the inlet side of the system's main control valve in order to facilitate setting of the DV-5 Valve (Ref. Figure 3).

Step 8. An Inspector's Test Connection, as described in the Technical Data section, must be provided for Wet Pilot Actuation systems.

Step 9. Unused pressure alarm switch connections must be plugged.

Step 10. Conduit and electrical connections are to be made in accordance

with the requirements of the authority having jurisdiction and/or the National Electric Code.

Step 11. Before a system hydrostatic test is performed in accordance with NFPA 13 system acceptance test requirements, the DV-5 Diaphragm Chamber is to be depressurized; the Automatic Drain Valve (Item 4, Fig. 2A and 4) is to be temporarily replaced with a 1/2 inch NPT plug, the 3/32 inch Vent Fitting (16 - Fig. 2A and 4) is to be temporarily replaced with a 1/4 inch NPT plug, and the Diaphragm Cover Bolts **must be uniformly and securely tightened using a cross-draw sequence.** After tightening, double-check to make certain that all of the Diaphragm Cover Bolts are securely tightened.

Valve Setting Procedure

Steps 1 through 11 are to be performed when initially setting the Model DV-5 Deluge Valve; after an operational test of the fire protection system; or, after system operation due to a fire.

NOTE

When the system is using either a seawater or brackish water supply, it is recommended that the system be thoroughly flushed with clean fresh water. Following this recommendation will increase the service life of the DV-5 Valve and Trim.

Step 1. Close the Main Control Valve.

Step 2. Close the Diaphragm Chamber Supply Control Valve.

Step 3. Open the Main Drain Valve, System Drain Valve, and all auxiliary drains in the system. Close the System Drain Valve and auxiliary drain valves after water ceases to discharge. Leave the Main Drain Valve open.

Step 4. Depress the plunger of the Automatic Drain Valve to verify that it is open and that the DV-5 Valve is completely drained.

Step 5. Clean the Strainer in the Diaphragm Chamber Supply connection by removing the clean-out plug and strainer basket. The Strainer may be flushed out by momentarily opening the Diaphragm Chamber Supply Control Valve.

Step 6. Reset the actuation system.

Manual Actuation — Push the operating lever up; however, do not close the hinged cover at this time.

Wet Pilot Actuation — Replace operated pilot sprinklers and/or reset the manual control stations.

NOTE

In order to prevent the possibility of a subsequent operation of an overheated solder type pilot sprinkler, any solder type pilot sprinklers that were possibly exposed to a temperature greater than their maximum rated ambient must be replaced.

Step 7. Open the Diaphragm Chamber Supply Control Valve and allow time for full pressure to build up in the Diaphragm Chamber.

Step 8. Operate (open) the Manual Control Station to vent trapped air from the Diaphragm Chamber. If necessary, first open the hinged cover, and then fully pull down on the operating lever. SLOWLY close the operating lever, by pushing it up, after aerated water

ceases to discharge from the Manual Control Station drain tubing. Close the hinged cover and insert a new break rod in the small hole through the top of the enclosing box.

Crack open the Inspector's Test Connection and any other vent valves on the wet pilot line to relieve trapped air. After the discharge of air has stopped, close the vent valves and the Inspector's Test Connection.

Step 9. Inspect the drain connection from the Manual Control Station. Any leaks must be corrected before proceeding to the next step.

Step 10. Verify the ability for the DV-5 Diaphragm to hold pressure as follows:

With the diaphragm chamber pressurized per Step 8, temporarily close the Diaphragm Chamber Supply Control Valve, and monitor the Diaphragm Chamber Pressure Gauge for a drop in pressure.

If a drop in pressure is noted, the DV-5 Diaphragm is to be replaced and/or any leaks must be corrected before proceeding to the next step.

If the Diaphragm Chamber Pressure Gauge does not indicate a drop in pressure, re-open the Diaphragm Chamber Supply Control Valve and proceed to the next step.

Step 11. Slowly open the Main Control Valve. Close the Main Drain Valve as soon as water discharges from the drain connection. Observe the Automatic Drain Valve for leaks. If there are leaks, determine/correct the cause of the leakage problem. If there are no leaks, the DV-5 Valve is ready to be placed in service and the Main Control Valve must then be fully opened.

NOTES

When the Main Control Valve is opened, the pressure on the Diaphragm Chamber may increase. This increase in pressure is normal, and if the pressure is greater than 250 psi (17,2 bar), the pressure is to be relieved by partially and temporarily opening the Manual Control Station; however, do not allow the pressure as indicated on the Diaphragm Chamber Pressure Gauge to drop below the supply pressure shown on the Water Supply Pressure Gauge, since this action may result in tripping of the DV-5 Valve.

After setting a fire protection system, notify the proper authorities and advise those responsible for monitoring proprietary and/or central station alarms.

Care and Maintenance

The following procedures and inspections must be performed as indicated, in addition to any specific requirements of the NFPA, and any impairment must be immediately corrected.

The owner is responsible for the inspection, testing, and maintenance of their fire protection system and devices in compliance with this document, as well as with the applicable standards of the National Fire Protection Association (e.g., NFPA 25), in addition to the standards of any authority having jurisdiction. The installing contractor or product manufacturer should be contacted relative to any questions.

It is recommended that automatic sprinkler systems be inspected, tested, and maintained by a qualified Inspection Service in accordance with local requirements and/or national codes.

NOTES

Some of the procedures outlined in this section will result in operation of the associated alarms. Consequently, notification must first be given to the owner and the fire department, central station, or other signal station to which the alarms are connected.

When the system is using either a seawater or brackish water supply, internal and external inspection of the DV-5 Valve and Trim is essential. Parts showing any signs of corrosion must be replaced to ensure the integrity of the system.

Before closing a fire protection system main control valve for maintenance work on the fire protection system that it controls, permission to shut down the affected fire protection systems must first be obtained from the proper authorities and all personnel who may be affected by this action must be notified. Reset the Model DV-5 Deluge Valve in accordance with the Valve Setting Procedure section.

Annual Operation Test Procedure

Proper operation of the DV-5 Valve (i.e., opening of the DV-5 Valve as during a fire condition) must be verified at least once a year as follows:

Step 1. If water must be prevented from flowing beyond the riser, perform the following steps.

- Close the Main Control Valve. Open the Main Drain Valve.

- Open the Main Control Valve one turn beyond the position at which water just begins to flow from the Main Drain Valve.
- Close the Main Drain Valve.

Step 2. Open the Inspector's Test Connection.

NOTE

Be prepared to quickly perform Steps 3, 4, and 5, if water must be prevented from flowing beyond the riser.

Step 3. Verify that the DV-5 Valve has tripped, as indicated by the flow of water into the system.

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

Step 5. Close the Diaphragm Chamber Supply Control Valve.

Step 6. Reset the DV-5 Deluge Valve in accordance with the Valve Setting Procedure.

Quarterly Waterflow Alarm Test Procedure

Testing of the system waterflow alarms must be performed quarterly. To test the waterflow 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.

Limited Warranty

Products manufactured by Tyco Fire Products are warranted solely to the original Buyer for ten (10) years against defects in material and workmanship when paid for and properly installed and maintained under normal use and service. This warranty will expire ten (10) years from date of shipment by Tyco Fire Products. No warranty is given for products or components manufactured by companies not affiliated by ownership with Tyco Fire Products or for products and components which have been subject to misuse, improper installation, corrosion, or which have not been installed, maintained, modified or repaired in accordance with applicable Standards of the National Fire Protection Association, and/or the standards of any other Authorities Having Jurisdiction. Materials found by Tyco Fire Products to be defective shall be either repaired or replaced, at Tyco Fire Products' sole option. Tyco Fire Products neither assumes, nor authorizes any person to assume for it, any other obligation in connection with the sale of products or parts of products. Tyco Fire Products shall not be responsible for sprinkler system design errors or inaccurate or incomplete information supplied by Buyer or Buyer's representatives.

IN NO EVENT SHALL TYCO FIRE PRODUCTS BE LIABLE, IN CONTRACT, TORT, STRICT LIABILITY OR UNDER ANY OTHER LEGAL THEORY, FOR INCIDENTAL, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LABOR CHARGES, REGARDLESS OF WHETHER TYCO FIRE PRODUCTS WAS INFORMED ABOUT THE POSSIBILITY OF SUCH DAMAGES, AND IN NO EVENT SHALL TYCO FIRE PRODUCTS' LIABILITY EXCEED AN AMOUNT EQUAL TO THE SALES PRICE.

THE FOREGOING WARRANTY IS MADE IN LIEU OF ANY AND ALL OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Ordering Procedure

NOTE

Part Numbers for factory pre-trimmed Model DV-5 Valves are provided in the Price Book.

DV-5 Semi-Preassembled Vertical Wet Pilot Actuation Trim :

Specify: (specify size and finish — galvanized is standard) Semi-Preassembled Vertical Wet Pilot Actuation Trim for Model DV-5 Deluge Valves, P/N (specify).

1-1/2 & 2 Inch Galvanized	P/N 52-477-2-107
1-1/2 & 2 Inch Black	P/N 52-477-1-107
1-1/2 & 2 Inch Brass	P/N 52-477-3-107
3 Inch Galvanized	P/N 52-477-2-104
3 Inch Black	P/N 52-477-1-104
3 Inch Brass	P/N 52-477-3-104
4, 6 & 8 Inch Galvanized	P/N 52-477-2-101
4, 6 & 8 Inch Black	P/N 52-477-1-101
4, 6 & 8 Inch Brass	P/N 52-477-3-101

DV-5 Unassembled Wet Pilot Actuation Trim for Vertical or Horizontal Installation:

Specify: (specify size and finish — galvanized is standard) Unassembled Wet Pilot Actuation Trim for vertical or horizontal installation of Model DV-5 Deluge Valves, P/N (specify).

1-1/2 & 2 Inch Galvanized	P/N 52-477-2-207
1-1/2 & 2 Inch Black	P/N 52-477-1-207
1-1/2 & 2 Inch Brass	P/N 52-477-3-207
3 Inch Galvanized	P/N 52-477-2-204
3 Inch Black	P/N 52-477-1-204
3 Inch Brass	P/N 52-477-3-204
4, 6 & 8 Inch Galvanized	P/N 52-477-2-201
4, 6 & 8 Inch Black	P/N 52-477-1-201
4, 6 & 8 Inch Brass	P/N 52-477-3-201

Accessories:

Refer to the Technical Data Sheets for the following, as applicable, for details and additional accessories:

600 PSI Water Pressure Gauge	P/N 92-343-1-004
Model PS10-2A Potter Electric Waterflow Pressure Alarm Switch	P/N 2571
Model WMA-1 Water Motor Alarm	P/N 52-630-1-001
Model MC-1 Manual Control Stations with galvanized connections for remote wet pilot actuation	P/N 52-289-2-001

Replacement Trim Parts :

Specify: (description) for use with Model DV-5 Deluge Valve, P/N (see Figure 2A or 4).