

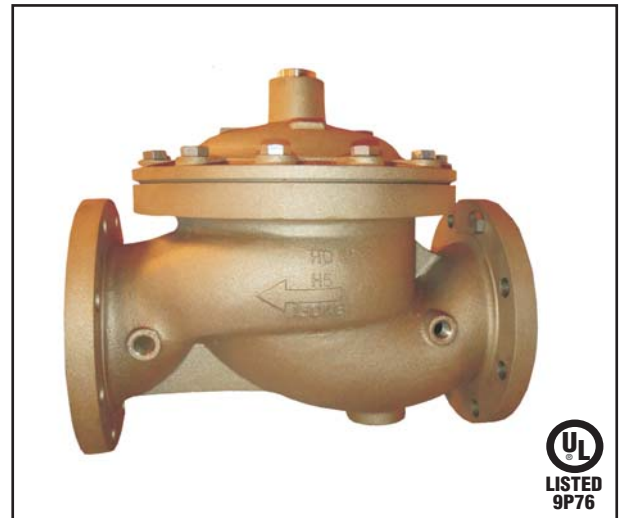
DELUGE VALVE

MODEL - H5



TECHNICAL DATA

MODEL	H5 - Nickel Aluminium Bronze	
NORMAL SIZE	200, 150, 100, 80, 50 NB	
SEVICE PRESSURE	1.4 to 17.5 Bar (20 to 250 PSI)	
THREADED OPENING	BSPT	
MOUNTING	Vertical or Horizontal	
FACTORY HYDOSTATIC TEST PRESSURE	35 Kg/sq.cm. (500 PSI)	
FLANGE CONNECTION	ANSI B 16.5 # 150 FF	
WET PILOT SPRINKLER HEIGHT LIMITATION	As per graph in the catalogue	
NET WEIGHT	200 NB	- 154 Kg
WIHTOUT TRIM	150 NB	- 82 Kg
	100 NB	- 55 Kg
	80 NB	- 36 Kg
	50 NB	- 31 Kg
FINISH	RAL 3000	
APPROVAL	UL Listed	
ORDERING INFORMATION	<ol style="list-style-type: none"> 1. Size of Valve 2. Flange specification 3. Valve trim vertical or horizontal 4. Trim type 	



On detection of fire the top chamber is vented to atmosphere through the outlet port via opened actuation devices. The top chamber pressure cannot be replenished through the restricted inlet port, and the upward force of the supply pressure lifts the clapper allowing the water flow to the system piping network and alarm devices.

TRIM DESCRIPTION

The trims are functionally termed as Dry Pilot Trim, Wet Pilot Trim, Electric Trim and Test and Alarm Trim as per the method of actuation of the deluge valve.

The functionality of these trims is described below.

DESCRIPTION

Deluge Valve is known as a system control valve in a deluge system, used for fast application of water in a spray system. Deluge valve protects areas such as power transformer installation, storage tank, conveyor protection and other industrial application etc. With the addition of foaming agent deluge valve can be used to protect aircraft hangar and inflammable liquid fire.

VALVE OPERATION

HD Deluge valve is a quick release, hydraulically operated diaphragm valve. It has three chambers, isolated from each other by the diaphragm operated clapper and seat seal. While in SET position, water pressure is transmitted through an external bypass check valve and restriction orifice from the system supply side to the top chamber, so that supply pressure in the top chamber act across the diaphragm operated clapper which holds the seat against the inlet supply pressure because of the differential pressure design.

a) DRY PILOT TRIM (PNEUMATIC RELEASE)

Dry pilot operation uses a pilot line of closed Sprinkles/QB detectors containing air under pressure, located in the area to be protected. It requires regulated dry air supply with main supply point through restricted orifice. The air pressure to be maintained as specified in the catalogue of Dry Pilot Actuator. The pilot line is connected to air inlet side of actuator. The top chamber of the deluge valve is connected to water inlet side of actuator. When there is an air pressure drop, or due to release of any of the release device on detection of fire, the diaphragm of actuator is lifted and allows the water to drain. This releases the water pressure in the top chamber of the deluge valve, allowing the deluge valve to open and water to flow into the system piping & alarm devices. Recommended air supply pressure for dry pilot trim system is 3.5 kg/sq.cm.

User must install non return valve at air supply connection to deluge valve trim.

In dry pilot trim, an actuator (DPA) is provided. An optional Pneumatic Reset Device (PRD) can be provided, which acts as a manual reset device in the dry pilot line.

TRIM TYPES

The trims are designated as following.
W =Wet Pilot trim. D = Dry Pilot Trim

b) WET PILOT TRIM (HYDRAULIC RELEASE)

Wet pilot operation uses a pilot line of closed Sprinklers/ QB Detectors containing pressurized water, supplied through the upstream side of the Deluge valve, through a restricted orifice. All the release lines are connected to a common release line. Due to release of any one of the release device, the water pressure in the top chamber of the Deluge valve drops and the Deluge valve opens.

c) ELECTRIC RELEASE TRIM

To actuate a Deluge valve electrically, a solenoid valve is provided to drain the water from the top chamber of the Deluge valve. A pressure switch is provided to activate an electric alarm, to shut down the desired equipment or to give "Tripped" indication of the Deluge valve. In addition to this a pressure switch can also monitor "Low air pressure" and "Fire condition" when used in dry pilot airline.

d) TEST AND ALARM TRIM

This trim is supplied with a test valve is provided to test the normal operation of the sprinkler alarm bell. The sprinkler alarm can be supplied additionally, which bells on actuation of the Deluge valve.

e) DRAIN AND DRIP TRIM

This consists of main and system drain valve in addition with drip valve.

a) Type ET-W and ET-D

This type of trim is basic trim required to operate the deluge valve. A solenoid valve for electric remote actuation and pressure switch for sensing & annunciation are optional.

b) Type ETW-D and ETD-D

This trim type is a combination of components of the ET trim along with the drip and drain trim. A solenoid valve for electric remote actuation and pressure switch for sensing & annunciation are optional.

c) Type ETW-T and ETD-T

This trim type is a combination of components of the ET trims along with the test and alarm trim. In dry pilot trim, an actuator DPA-H1 is provided with optional Pneumatic Reset Device (PRD-1). A solenoid valve for electric remote actuation and pressure switch for sensing & annunciation are optional.

d) Type NT-W and NT-D

This trim type is a combination of components of the ET trim along with the test and alarm trim as well as the drip and drain trim. A solenoid valve for electric remote actuation and pressure switch for sensing & annunciation are optional.

TRIM MODEL NO.	TRIM DESCRIPTION	MOUNTING	SCHEMATIC NO.
ETW	Basic Wet Pilot Trim	Vertical	Schematic 1
ETD	Basic Dry Pilot Trim	Vertical	Schematic 2
ETW-T	Basic Wet Pilot Trim with Test & Alarm Trim	Vertical	Schematic 3
ETD-T	Basic Dry Pilot Trim with Test & Alarm Trim	Vertical	Schematic 4
ETW-D	Basic Wet Pilot Trim with Drip & Drain Trim	Vertical	Schematic 5
ETD-D	Basic Dry Pilot Trim with Drip & Drain Trim	Vertical	Schematic 6
NTW	Basic Wet Pilot Trim with Test & Alarm Trim and Drip & Drain Trim	Vertical	Schematic 7
NTD	Basic Dry Pilot Trim with Test & Alarm Trim and Drip & Drain Trim	Vertical	Schematic 8
ETW	Basic Wet Pilot Trim	Horizontal	Schematic 9
ETD	Basic Dry Pilot Trim	Horizontal	Schematic 10
ETW-T	Basic Wet Pilot Trim with Test & Alarm Trim	Horizontal	Schematic 11
ETD-T	Basic Dry Pilot Trim with Test & Alarm Trim	Horizontal	Schematic 12
ETW-D	Basic Wet Pilot Trim with Drip & Drain Trim	Horizontal	Schematic 13
ETD-D	Basic Dry Pilot Trim with Drip & Drain Trim	Horizontal	Schematic 14
NTW	Basic Wet Pilot Trim with Test & Alarm Trim and Drip & Drain Trim	Horizontal	Schematic 15
NTD	Basic Dry Pilot Trim with Test & Alarm Trim and Drip & Drain Trim	Horizontal	Schematic 16

RESETTING PROCEDURE FOR DELUGE VALVE

- a. Close the upstream side stop valve provided below the deluge valve to cease the flow of water.
- b. Open both the drain valves/ drain plugs and close when the flow of water has ceased.
- c. Close the release device/replace the Sprinkler if release was through Sprinkler/ QB Detector.
- d. Inspect and release if required, or close the section of the detection system subjected to "Fire condition".
- e. In case of dry pilot detection system, open the air supply valve to build-up air pressure. Open the priming valve fully. Open the upstream side of the stop valve provided below the Deluge valve. No water should flow into the system.
- f. Where priming shut off valve (optional) is provided for resetting, then the water need to be drained from upstream side of valve.

NOTE :

The valve can be reset without undergoing above procedure, by just closing/replacing the release device as valve is auto reset type. The reset time may be long or cause vibration while closing depending on back pressure at the outlet of the valve.

CAUTION

- a. Do not close the downstream and upstream stop valves, while the system is in service.
- b. The releasing device must be maintained in open position, when actuated, to prevent the deluge valve from closure if anti shut off valve is not provided.
- c. While using a Deluge valve in the wet pilot system, the height and length of the wet pilot detection line is to be limited, as shown in the wet pilot sprinkler height limitation graph.
- d. Do not connect the Sprinkler Alarm outlet drain line to close a common drain as it may create back pressure and Sprinkler Alarm may not function.
- e. Deluge valve must have support to absorb sudden opening or closing vibration shock to the piping.
- f. To avoid water damage, take precautions when opening the water supply main control valve, since water will flow from all open system valves.

- g. The responsibility of maintenance of the protection system & devices in proper operating condition lies with the owner of the system.
- h. Deluge Valve & its trim shall be maintained at a minimum temperature of 4°C, Heat tracing is not permitted.
- i. Deluge Valve must be used in presssurised system

SYSTEM TESTING PROCEDURE

- (i) Keep the upstream side of the stop valve partially open. To avoid water flow to system side close the system side stop valve. This valve is to be kept in open position after the testing is completed.
- (ii) Let any of the release devices to trip. This will result in sudden drop of water pressure in the deluge valve top chamber which in turn will open the deluge valve. Close the upstream side stop valve immediately.
- (iii) Reset the valve as per the procedure given under heading "RESETTING PROCEDURE FOR THE DELUGE VALVE".

INSPECTION AND MAINTENANCE

Installed system piping network must be flushed properly before placing the Deluge valve in service.

A qualified and trained person must commission the system. After few initial successful tests, an authorized person must be trained to perform inspection and testing of the system. It is recommended to have regular inspection and test run of the system as per NFPA guideline or in accordance to the organisation having local jurisdiction.

(i) WARNING

Inspection and testing is to be carried out only by authorised and trained personnel. DO NOT TURN OFF the water supply or close any valve to make repair(s) or test the valve, without placing a roving fire patrol in the area covered by the system. Also inform the local security personnel and central alarm station, so that there is no false alarm signal.

It is recommended to carry out physical inspection of the system at least twice in a week. The inspection should verify that all the control valves are in proper position as per the system requirement and that there are no damages to any component. The frequency of inspections must be increased in the presence of contaminated water supplies, corrosive/ scaling water supplies, and corrosive atmospheres.

(ii) NORMAL CONDITION

- (a) All main valves are open and are sealed with tamper proof seal
- (b) Drain valves must be kept closed
- (c) No leak or drip is detected from the drip valve
- (d) All the gauges except the system side water pressure gauge, should show the required pressure
- (e) There should be no leakage in the system

(iii) NORMAL CONDITION TEST

- (a) The system should be checked for normal condition at least once in a week
- (b) Test the sprinkler alarm bell or electric alarm by turning the alarm test valve to the test position. The alarm should sound. This test should be carried out at least once in a week
- (c) Depress the drip valve knob. Significant accumulation indicates a possible seat leakage
- (d) Conduct the water flow test as per the procedure of system testing at least once a month.

(iv) PERIODIC CHECK

Conduct the water flow test by actuating few of the release devices provided in the system. Clean all strainer(s) and priming line restriction. This test is to be carried out at least once in three months.

ABNORMAL CONDITION**(i) ALARM FAILS TO SOUND**

- (a) Check for any obstruction in the alarm test line, make certain that the sprinkler alarm is free to operate
- (b) If an electric alarm is provided, check the electrical circuitry to the alarm

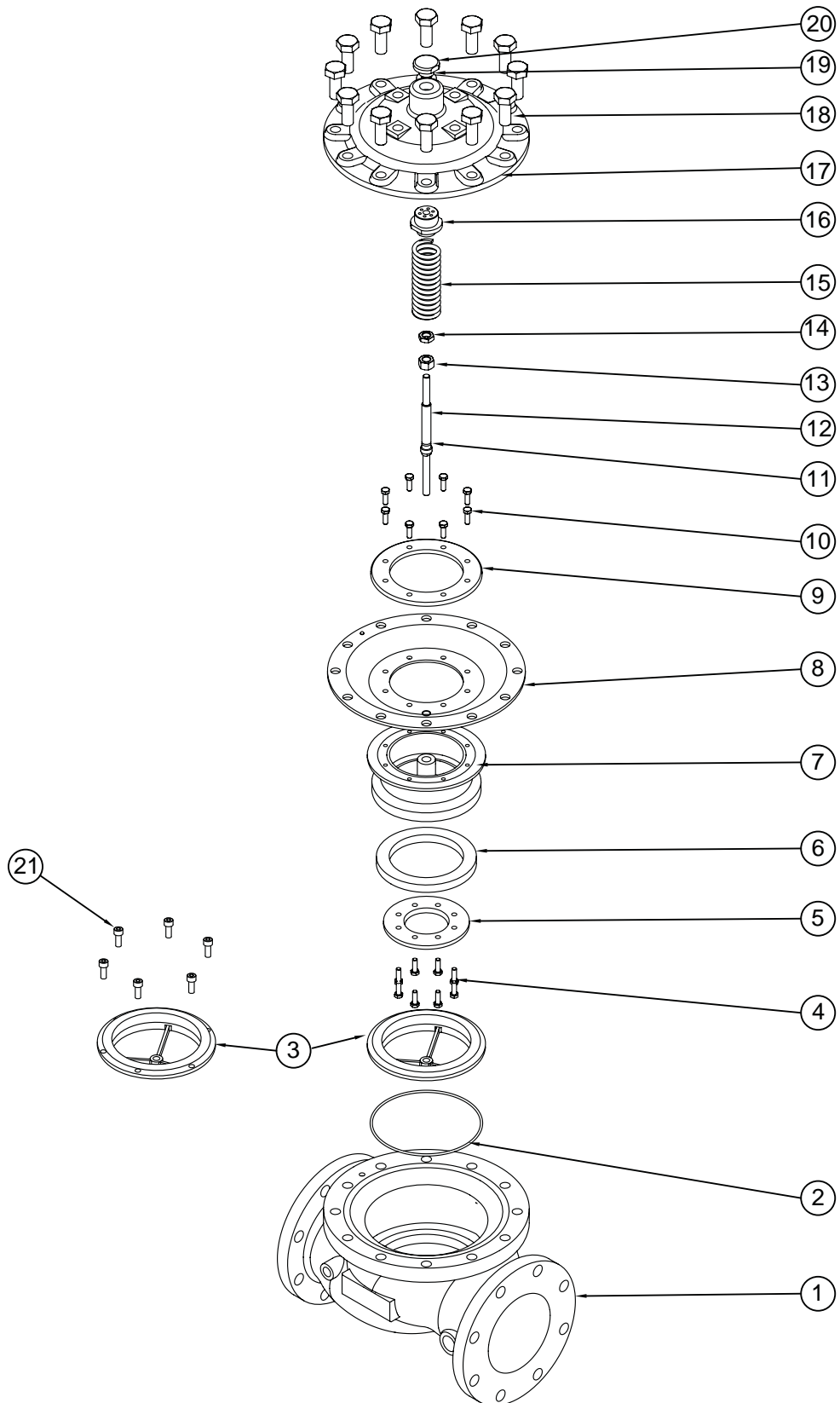
(ii) FALSE TRIPS

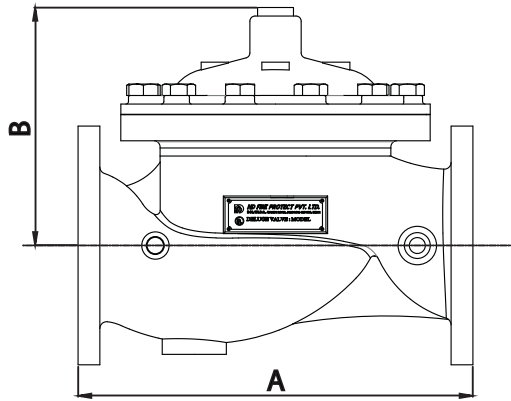
- (a) Check for clogging in priming line, restriction orifice check valve, priming valve & strainer
- (b) Leakage in the release system
- (c) The deluge air panel orifice clogged or low supply pressure

(iii) LEAKAGE THROUGH THE DELUGE VALVE

- (a) Damaged deluge valve seat or obstruction on the seat face by foreign object
- (b) Leakage in release system
- (c) Partly clogged priming line restriction orifice check valve
- (d) Low air pressure on release system line or leakage in release system

DELUGE VALVE MODEL - H5 SIZE 200 / 150 / 100 / 80/ 50 NB

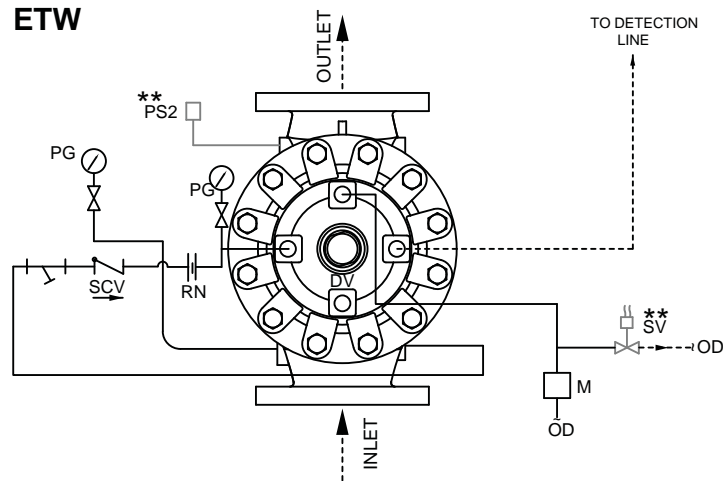


DELUGE VALVE MODEL - H5 SIZE 200 / 150 / 100 / 80/ 50 NB

DIMENSION in millimeter (Approximate)

VALVE NOMINAL SIZE	A	B
200 NB	552	332
150 NB	462	282
100 NB	412	245
80 NB	372	232
50 NB	320	232

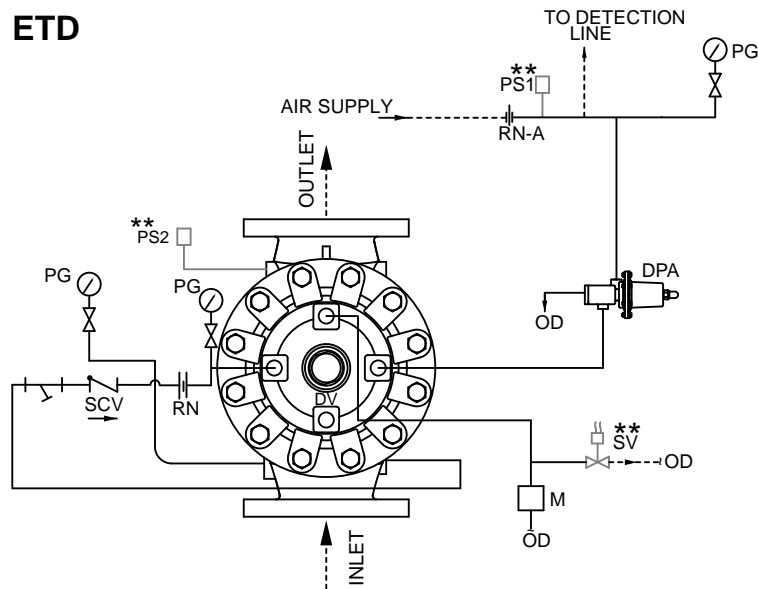
ITEM NO.	PART NO.					DESCRIPTION	QTY				MATERIAL SPECIFICATION
	200 NB	150 NB	100 NB	80 NB	50 NB		200 NB	150 NB	100 NB	80/50 NB	
1	4151	3911	3951	3971	3965	HOUSING	1	1	1	1	AL. BRONZE BS 1400 - AB2
2	8561	9783	9784	9791	9791	"O" RING	1	1	1	1	NEOPRENE RUBBER
3	4155	3925	3955	3986	3986	SEAT	1	1	1	1	AL. BRONZE BS 1400 - AB2
4	9898	9899	9899	-	-	BOLT	8	4	4	-	MONEL 400
5	4156	3926	3956	3984	3984	RUBBER CLAMP	1	1	1	1	AL. BRONZE BS 1400 - AB2
6	4027	4000	4005	4023	4023	RUBBER SEAT	1	1	1	1	NEOPRENE RUBBER
7	4153	3927	3953	3985	3985	CLAPPER	1	1	1	1	AL. BRONZE BS 1400 - AB2
8	4035	2427	2507	2786	2786	DIAPHRAGM	1	1	1	1	NEOPRENE RUBBER
9	4158	3918	3958	3978	3978	CLAMP RING	1	1	1	1	AL. BRONZE BS 1400 - AB2
10	9842	9898	9898	9898	9898	BOLT	12	8	8	8	MONEL 400
11	9986	9986	9986	9986	9986	"O" RING	1	1	1	1	NEOPRENE RUBBER
12	4157	3917	3957	3977	3977	SPINDLE	1	1	1	1	MONEL 400
13	9896	9896	9896	9896	9896	NUT	1	1	1	1	MONEL 400
14	9897	9897	9897	9897	9897	LOCK NUT	1	1	1	1	MONEL 400
15	4154	3914	3954	3974	3974	SPRING	1	1	1	1	INCONEL-X-750
16	4159	3919	3959	3979	3979	ADAPTOR	1	1	1	1	AL. BRONZE BS 1400 - AB2
17	4152	3912	3952	3972	3972	COVER	1	1	1	1	AL. BRONZE BS 1400 - AB2
18	9841	9841	8801	9123	9123	BOLT	16	12	12	12	STAINLESS STEEL
19	9982	9982	9982	9982	9982	"O" RING	1	1	1	1	NEOPRENE RUBBER
20	3920	3920	3920	3920	3920	PLUG	1	1	1	1	AL. BRONZE BS 1400 - AB2
21	9843	-	-	-	-	ALLEN BOLT	6	-	-	-	MONEL 400

SCHEMATIC FOR WET PILOT BASIC TRIM FOR DELUGE VALVE MODEL - H5 FOR VERTICAL MOUNTING



SCHEMATIC 1












SCHEMATIC FOR DRY PILOT BASIC TRIM FOR DELUGE VALVE MODEL - H5 FOR VERTICAL MOUNTING



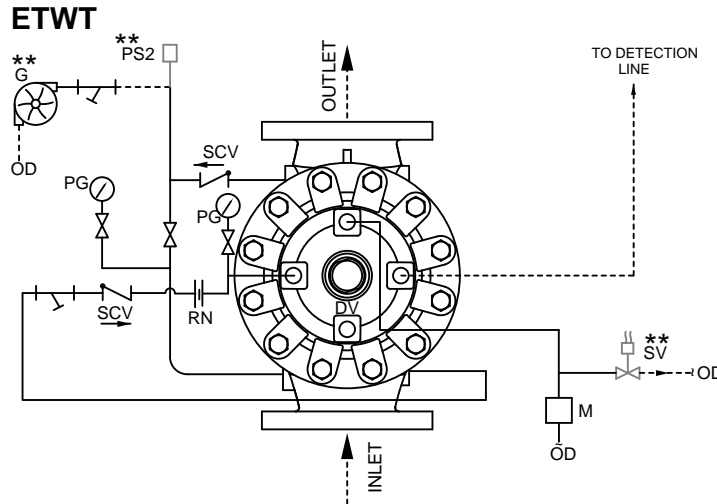
SCHEMATIC 2

DV	DELUGE VALVE
SV	SOLENOID VALVE
G	SPRINKLER ALARM (WMG)
M	EMERGENCY RELEASE STATION
RN	RESTRICTION NOZZLE (PRIMING LINE)
PS1	LOW AIR ALARM PRESSURE SWITCH
PS2	WATER FLOW PRESSURE ALARM SWITCH

ABBREVIATION & SYMBOLS

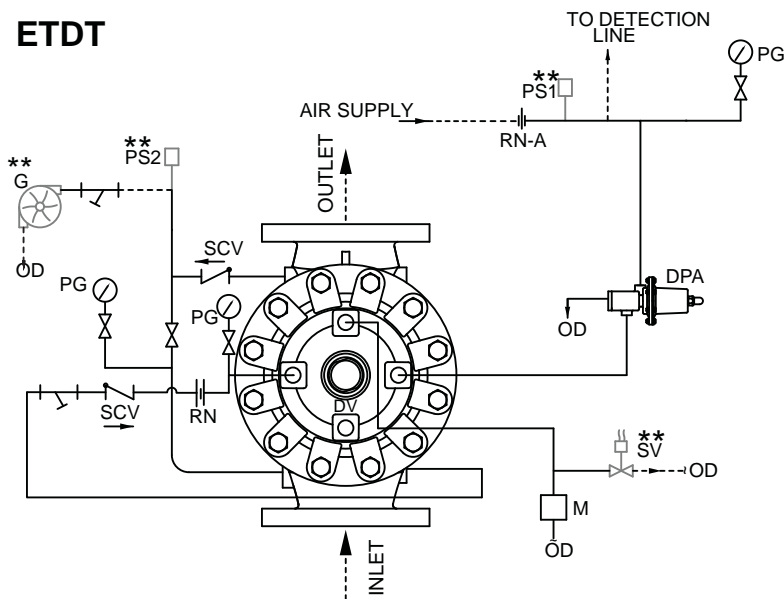
	VALVE		SWING CHECK VALVE
	BY USER		ANGLE VALVE
	OPTIONAL		DRY PILOT ACTUATOR
	STRAINER		RESTRICTION NOZZLE (AIR LINE)
	OPEN DRAIN		SWING CHECK VALVE
	PRESSURE GAUGE		

**SCHEMATIC FOR WET PILOT BASIC TRIM FOR DELUGE VALVE
MODEL - H5 FOR VERTICAL MOUNTING**








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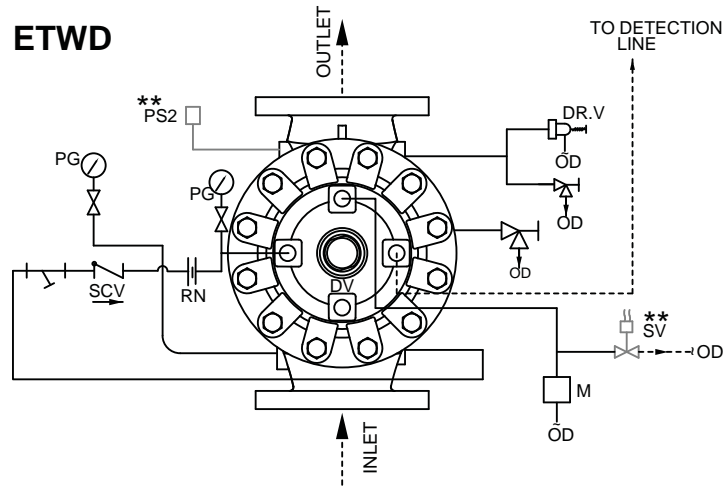
**SCHEMATIC FOR DRY PILOT BASIC TRIM FOR DELUGE VALVE
MODEL - H5 FOR VERTICAL MOUNTING**



SCHEMATIC 4

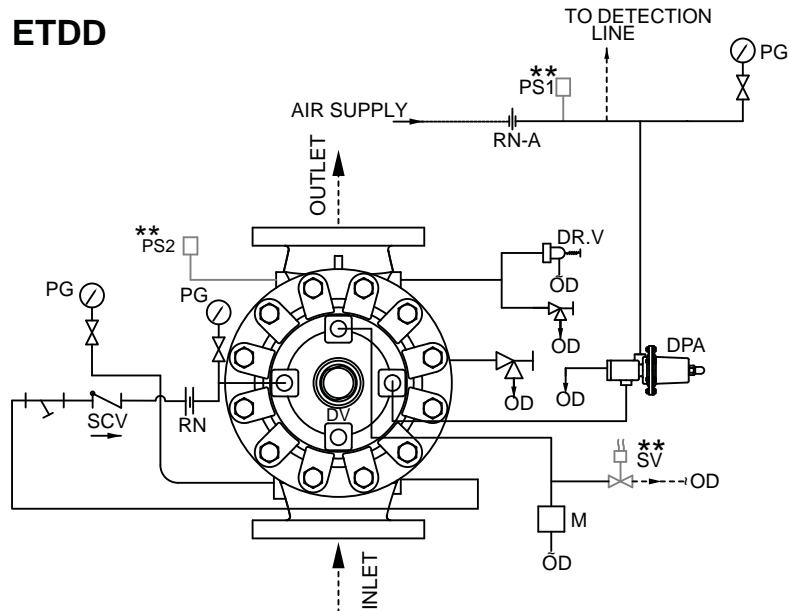
ABBREVIATION & SYMBOLS					
DV	DELUGE VALVE		VALVE		SWING CHECK VALVE
SV	SOLENOID VALVE		BY USER		ANGLE VALVE
G	SPRINKLER ALARM (WMG)	**	OPTIONAL	DPA	DRY PILOT ACTUATOR
M	EMERGENCY RELEASE STATION		STRAINER	RN-A	RESTRICTION NOZZLE (AIR LINE)
RN	RESTRICTION NOZZLE (PRIMING LINE)	OD	OPEN DRAIN	SCV	SWING CHECK VALVE
PS1	LOW AIR ALARM PRESSURE SWITCH	PG	PRESSURE GAUGE		
PS2	WATER FLOW PRESSURE ALARM SWITCH				

**SCHEMATIC FOR WET PILOT BASIC TRIM FOR DELUGE VALVE
MODEL - H5 FOR VERTICAL MOUNTING**



SCHEMATIC 5












**SCHEMATIC FOR DRY PILOT BASIC TRIM FOR DELUGE VALVE
MODEL - H5 FOR VERTICAL MOUNTING**



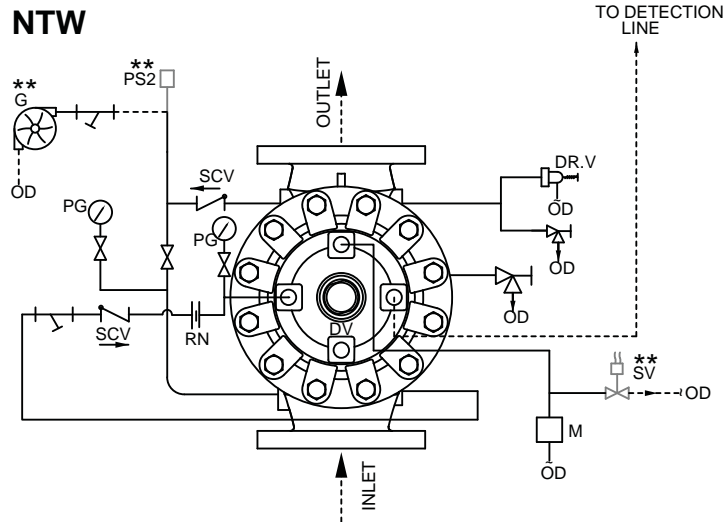
SCHEMATIC 6

DV DELUGE VALVE
SV SOLENOID VALVE
G SPRINKLER ALARM (WMG)
M EMERGENCY RELEASE STATION
RN RESTRICTION NOZZLE (PRIMING LINE)
PS1 LOW AIR ALARM PRESSURE SWITCH
PS2 WATER FLOW PRESSURE ALARM SWITCH

ABBREVIATION & SYMBOLS

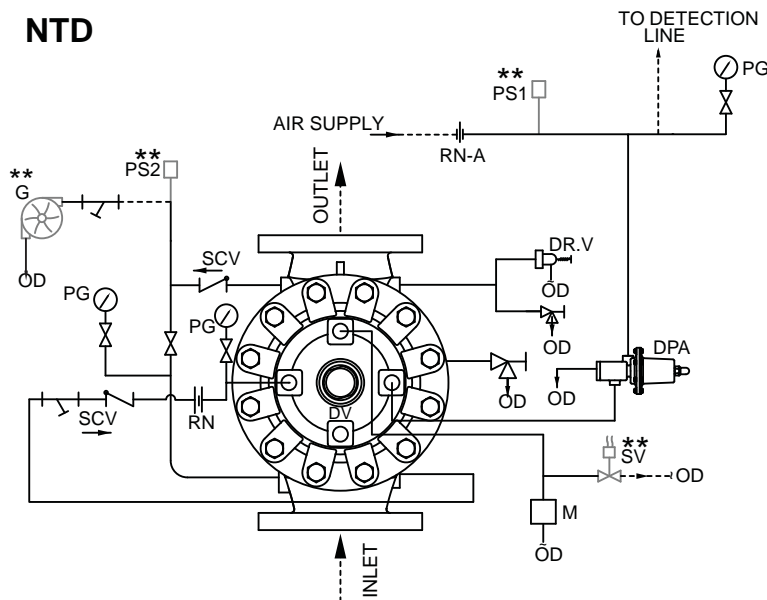
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	BY USER		ANGLE VALVE
	OPTIONAL		DRY PILOT ACTUATOR
	STRAINER		RESTRICTION NOZZLE (AIR LINE)
	OPEN DRAIN		SWING CHECK VALVE
	PRESSURE GAUGE		

**SCHEMATIC FOR WET PILOT BASIC TRIM FOR DELUGE VALVE
MODEL - H5 FOR VERTICAL MOUNTING**





















SCHEMATIC 7

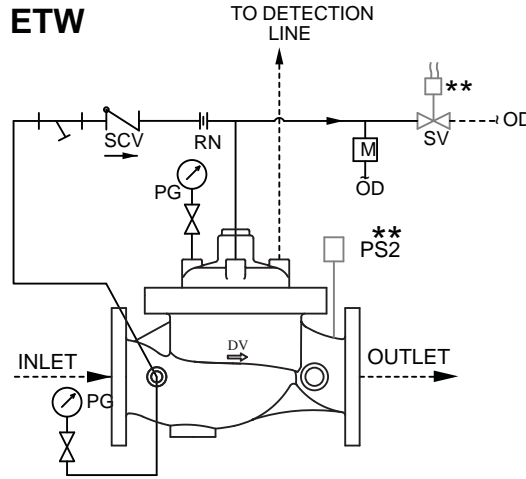
**SCHEMATIC FOR DRY PILOT BASIC TRIM FOR DELUGE VALVE
MODEL - H5 FOR VERTICAL MOUNTING**



SCHEMATIC 8

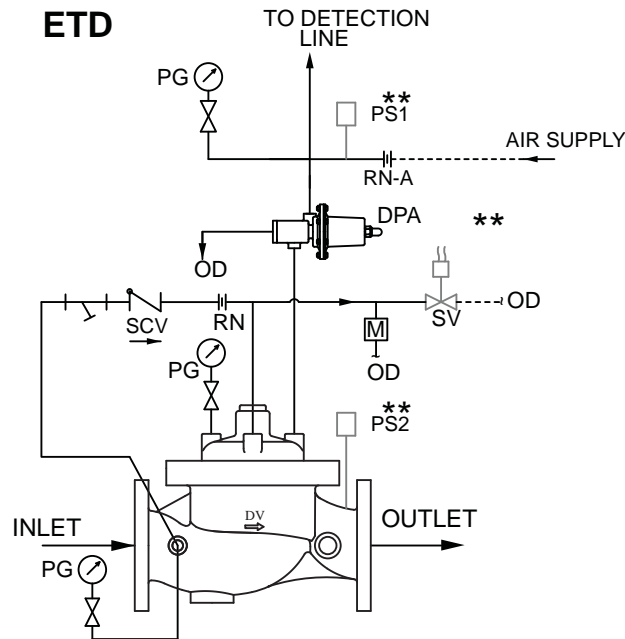
ABBREVIATION & SYMBOLS			
DV	DELUGE VALVE		VALVE
SV	SOLENOID VALVE		SOLENOID VALVE
G	SPRINKLER ALARM (WMG)		SPRINKLER ALARM (WMG)
M	EMERGENCY RELEASE STATION		EMERGENCY RELEASE STATION
RN	RESTRICTION NOZZLE (PRIMING LINE)		RESTRICTION NOZZLE (PRIMING LINE)
PS1	LOW AIR ALARM PRESSURE SWITCH		LOW AIR ALARM PRESSURE SWITCH
PS2	WATER FLOW PRESSURE ALARM SWITCH		WATER FLOW PRESSURE ALARM SWITCH
			VALVE
			BY USER
			OPTIONAL
			STRAINER
			OPEN DRAIN
			PRESSURE GAUGE
			SWING CHECK VALVE
			ANGLE VALVE
			DRY PILOT ACTUATOR
			RESTRICTION NOZZLE (AIR LINE)
			SWING CHECK VALVE

**SCHEMATIC FOR WET PILOT BASIC TRIM FOR DELUGE VALVE
MODEL - H5 FOR HORIZONTAL MOUNTING**



SCHEMATIC 9

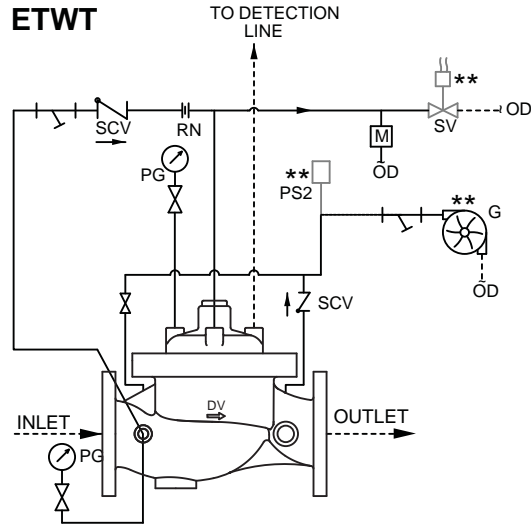
**SCHEMATIC FOR DRY PILOT BASIC TRIM FOR DELUGE VALVE
MODEL - H5 FOR HORIZONTAL MOUNTING**



SCHEMATIC 10

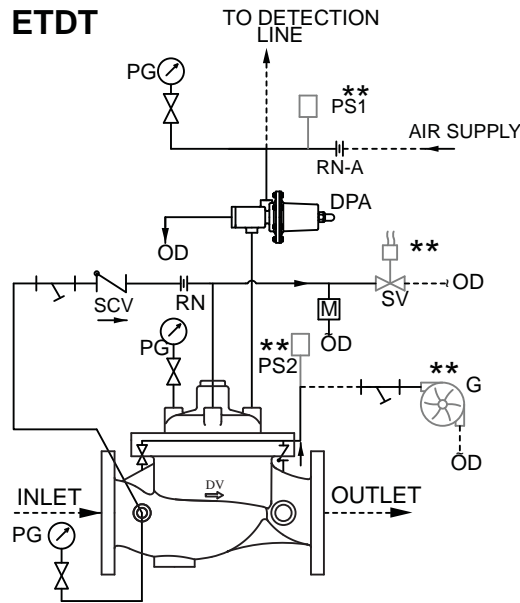
ABBREVIATION & SYMBOLS					
DV	DELUGE VALVE	∠	VALVE	∠	SWING CHECK VALVE
SV	SOLENOID VALVE	---	BY USER	∠	ANGLE VALVE
G	SPRINKLER ALARM (WMG)	**	OPTIONAL	DPA	DRY PILOT ACTUATOR
M	EMERGENCY RELEASE STATION	∠	STRAINER	RN-A	RESTRICTION NOZZLE (AIR LINE)
RN	RESTRICTION NOZZLE (PRIMING LINE)	OD	OPEN DRAIN	SCV	SWING CHECK VALVE
PS1	LOW AIR ALARM PRESSURE SWITCH	PG	PRESSURE GAUGE		
PS2	WATER FLOW PRESSURE ALARM SWITCH				

**SCHEMATIC FOR WET PILOT BASIC TRIM FOR DELUGE VALVE
MODEL - H5 FOR HORIZONTAL MOUNTING**



SCHEMATIC 11







**SCHEMATIC FOR DRY PILOT BASIC TRIM FOR DELUGE VALVE
MODEL - H5 FOR HORIZONTAL MOUNTING**








SCHEMATIC 12

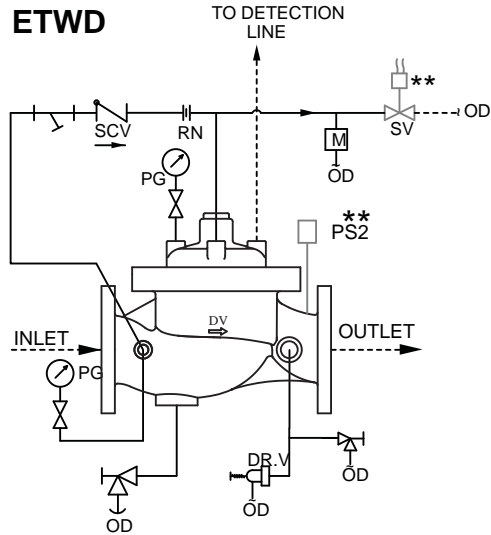
ABBREVIATION & SYMBOLS

DV	DELUGE VALVE
SV	SOLENOID VALVE
G	SPRINKLER ALARM (WMG)
M	EMERGENCY RELEASE STATION
RN	RESTRICTION NOZZLE (PRIMING LINE)
PS1	LOW AIR ALARM PRESSURE SWITCH
PS2	WATER FLOW PRESSURE ALARM SWITCH

	VALVE
	BY USER
	OPTIONAL
	STRAINER
	OPEN DRAIN
	PRESSURE GAUGE

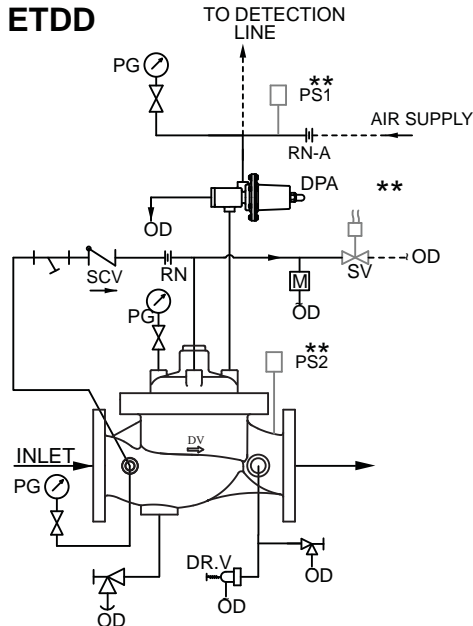
	SWING CHECK VALVE
	ANGLE VALVE
	DRY PILOT ACTUATOR
	RESTRICTION NOZZLE (AIR LINE)
	SWING CHECK VALVE

**SCHEMATIC FOR WET PILOT BASIC TRIM FOR DELUGE VALVE
MODEL - H5 FOR HORIZONTAL MOUNTING**



SCHEMATIC 13



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MODEL - H5 FOR HORIZONTAL MOUNTING**





SCHEMATIC 14

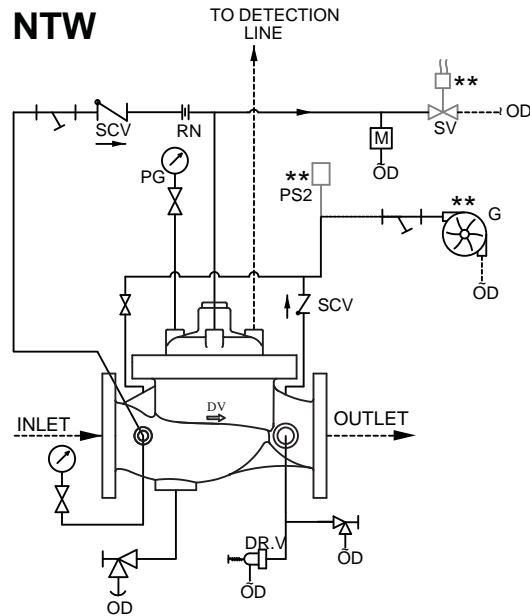
ABBREVIATION & SYMBOLS

DV	DELUGE VALVE
SV	SOLENOID VALVE
G	SPRINKLER ALARM (WMG)
M	EMERGENCY RELEASE STATION
RN	RESTRICTION NOZZLE (PRIMING LINE)
PS1	LOW AIR ALARM PRESSURE SWITCH
PS2	WATER FLOW PRESSURE ALARM SWITCH

	VALVE
---	BY USER
**	OPTIONAL
	STRAINER
OD	OPEN DRAIN
PG	PRESSURE GAUGE

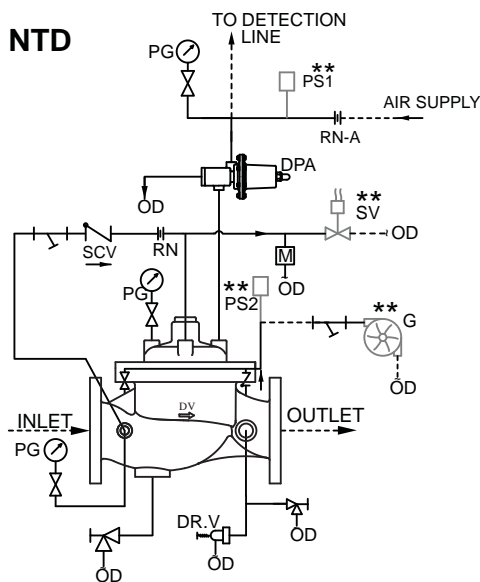
	SWING CHECK VALVE
	ANGLE VALVE
DPA	DRY PILOT ACTUATOR
RN-A	RESTRICTION NOZZLE (AIR LINE)
SCV	SWING CHECK VALVE

**SCHEMATIC FOR WET PILOT BASIC TRIM FOR DELUGE VALVE
MODEL - H5 FOR HORIZONTAL MOUNTING**



SCHEMATIC 15

**SCHEMATIC FOR DRY PILOT BASIC TRIM FOR DELUGE VALVE
MODEL - H5 FOR HORIZONTAL MOUNTING**



SCHEMATIC 16

ABBREVIATION & SYMBOLS

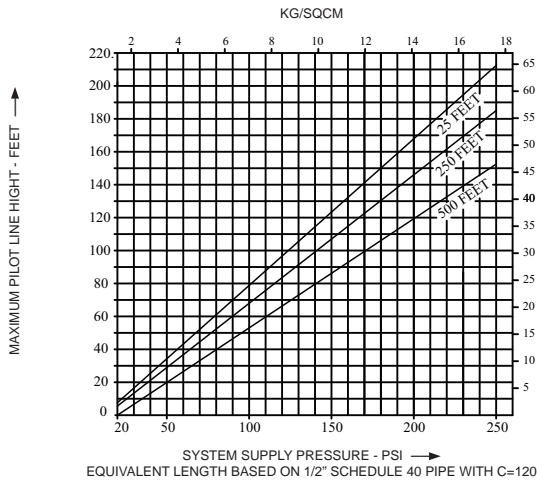
- DV DELUGE VALVE
- SV SOLENOID VALVE
- G SPRINKLER ALARM (WMG)
- M EMERGENCY RELEASE STATION
- RN RESTRICTION NOZZLE (PRIMING LINE)
- PS1 LOW AIR ALARM PRESSURE SWITCH
- PS2 WATER FLOW PRESSURE ALARM SWITCH

- ∩ VALVE
- BY USER
- ** OPTIONAL
- ⊥ STRAINER
- OD OPEN DRAIN
- PG PRESSURE GAUGE

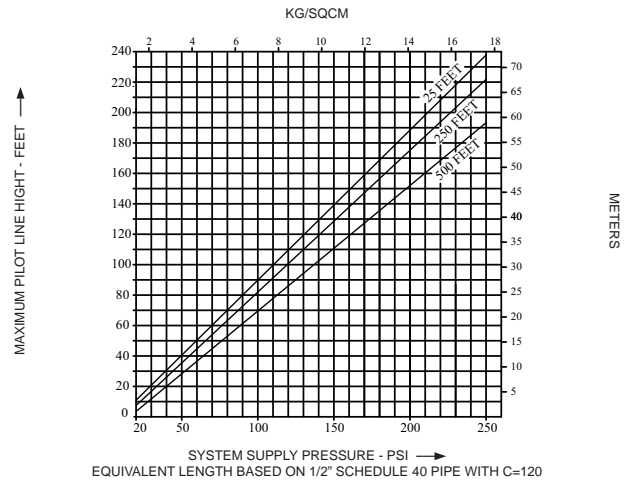
- ∩ SWING CHECK VALVE
- ∠ ANGLE VALVE
- DPA DRY PILOT ACTUATOR
- RN-A RESTRICTION NOZZLE (AIR LINE)
- SCV SWING CHECK VALVE

SPRINKLER HEIGHT LIMITATION

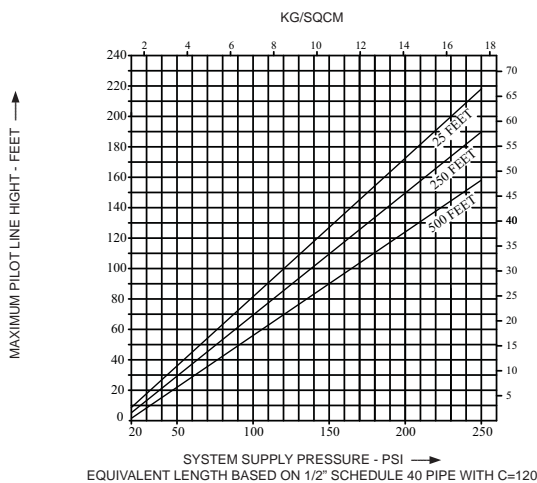
DV 200NB



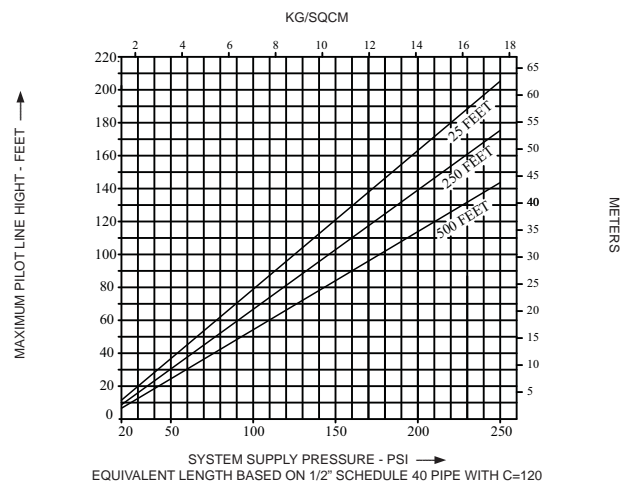
DV 150NB



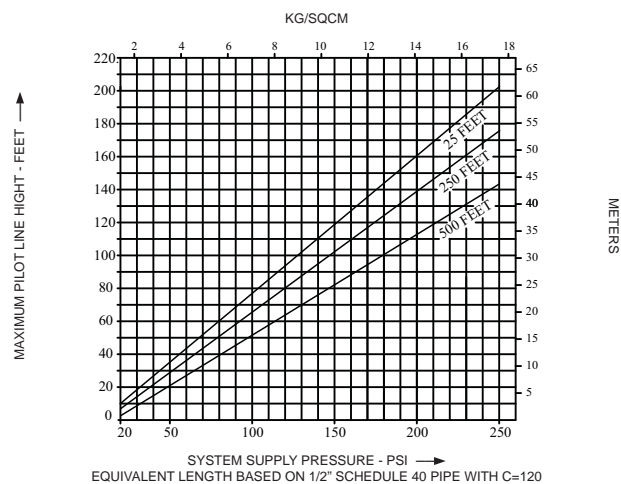
DV 100NB



DV 80NB



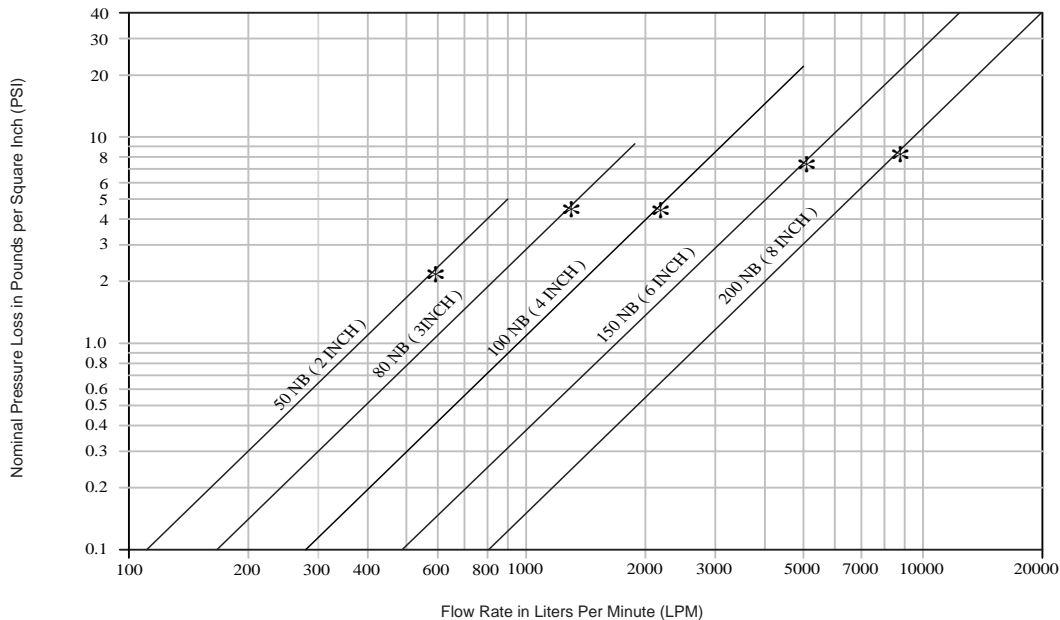
DV - 50NB



DELUGE VALVE MODEL H5

Nominal Pressure Loss vs Flow

(* Flow at 15 feet per second [4.57 meter per second])



- * 2.3 PSI Pressure loss @ 15 feet per second (4.57 met/sec) velocity having flow of 594 LPM thru 50NB DV
- * 4.7 PSI Pressure loss @ 15 feet per second (4.57 met/sec) velocity having flow of 1308 LPM thru 80NB DV
- * 4.7 PSI Pressure loss @ 15 feet per second (4.57 met/sec) velocity having flow of 2255 LPM thru 100NB DV
- * 7.5 PSI Pressure loss @ 15 feet per second (4.57 met/sec) velocity having flow of 5117 LPM thru 150NB DV
- * 8.4 PSI Pressure loss @ 15 feet per second (4.57 met/sec) velocity having flow of 8854 LPM thru 200NB DV

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