DELUGE VALVE Data Sheet for manufacturer.

General Data		
1)	Type	Automatic / Manual Deluge Valve
2)	Vendor Model	Vendor To Advise
3)	Quantity & Size	See Table 1.
4)	Service	Fire Fighting: ☒ Water ☒ Foam (See Table 1)
5)	Design Code	NFPA 11/15/16, ☒ UL ☒ FM
6)	Installation Location	Outdoor
Process and Operating Data		
7)	Fluid Type	☒ Potable water ☒ Sea water (Note 2)
8)	Ambient temperature	Min: 10°C Max: 50.0°C
9)	Humidity	Min: 50% Max:98%
10)	Operating Temperature	Amb.
11)	Design Temperature	85
12)	Operating Pressure (Min/Max)	See Table 1
13)	Design Pressure bar	16
14)	Flow Rate	See Table 1
15)	Test pressure (bar)	27 *
Technical Data for Deluge Valve		
16)	Model	*
17)	Diameter	See Table 1
18)	Inlet Connection Type	R.F. Flange

19)	Connection Rating	ANSI 150 #
20)	Actuation Type	Electric, Manual, Hydraulic
21)	Operation Type	Hydraulic
22)	Manual Local Operation	Release Valve
23)	Manual Remote Operation	Solenoid Valve
24)	Opening Time sec	*
25)	Body material	Nickel - Aluminum Bronze
26)	Trim material	Bronze *
27)	Automatic downstream pressure control valve	*
28)	By pass line	☒ Yes
	Solenoid Valve	
29)	Type	*
30)	Model	*
31)	Quantity	One per each
32)	Actuation Type	Remote Electrical Type
33)	Supply Voltage / Freq./ Phase	24 V DC
34)	Normal Status	Energized to open delude valve
35)	Codes	NEC, CENELEC
36)	Body/Trim Material	*
37)	Name Plate	*
38)	Material Traceability Certificate	As Per EN 10204 3.1
39)	Suppression Diode	☒ Yes ☐ No
40)	Ingress Protection	IP 66
41)	Hazard Classification	See

Manual Release Valve		
42)	Type	*
43)	Model	*
44)	Quantity	One Per each
45)	Actuated by	Hand Lever
46)	Body Material	Bronze *
47)	Connection Size	*
Alarm Device		
48)	Type	Water Gong Alarm Type
49)	Quantity	One per each
50)	Body Material	Bronze
51)	Sound type	Bell/Sounder
Manual push Button		
52)	Type	*
53)	Model	*
54)	Quantity	One per each
Overall Dimensions		
55)	Total Length	*
56)	Total Depth	*
57)	Total Height	*
58)	Total Weight	*
59)	Wet Weight	*
Test Procedure		
60)	Test	NFPA,UL,FM *
61)	Test Facilities	☒ Yes ☐ No *

Deluge TABLE 1

	Protected Equipment	*Deluge Tag No.*	*Size (inch)*	*Min. Flow rate (LPM*	*Flow rate (LPM)*	*Pressure (barg) Note 3*	*Operating Pressure (barg)*	*Actuation Type*	*Service*
1	*T-02A*	*DV-40-50*	*8*	*5264.9*	*5788.9*	*5.8*	*14*	*Electric, Manual*	*Water*
2	*T-02A*	*DV-40-51*	*8*	*5264.9*	*5788.9*	*5.8*	*14*	*Electric, Manual*	*Water*
3	*T-02B*	*DV-40-52*	*8*	*5264.9*	*5788.9*	*5.8*	*14*	*Electric, Manual*	*Water*
4	*T-02B*	*DV-40-53*	*8*	*5264.9*	*5788.9*	*5.8*	*14*	*Electric, Manual*	*Water*
5	*T-06*	*DV-40-54*	*8*	*5264.9*	*5788.9*	*5.8*	*14*	*Electric, Manual*	*Water*
6	*T-06*	*DV-40-55*	*8*	*5264.9*	*5788.9*	*5.8*	*14*	*Electric, Manual*	*Water*
7	*T-01*	*DV-40-10*	*8*	*3683.85*	*4070.5*	*7.2*	*14*	*Electric, Manual*	*Water*
8	*T-01*	*DV-40-11*	*8*	*3683.85*	*4070.5*	*7.2*	*14*	*Electric, Manual*	*Water*
9	*T-01*	*DV-40-12*	*8*	*3683.85*	*4070.5*	*7.2*	*14*	*Electric, Manual*	*Water*
10	*T-01*	*DV-40-13*	*8*	*3683.85*	*4070.5*	*7.2*	*14*	*Electric, Manual*	*Water*
11	*T-02*	*DV-40-14*	*8*	*3683.85*	*4070.5*	*7.2*	*14*	*Electric, Manual*	*Water*
12	*T-02*	*DV-40-15*	*8*	*3683.85*	*4070.5*	*7.2*	*14*	*Electric, Manual*	*Water*

	Protected Equipment	Deluge Tag No.	Size (inch)	Min. Flow rate (LPM	Flow rate (LPM)	Pressure (barg) Note 3	Operating Pressure (barg)	Actuation Type	Service
13	T-02	DV-40-16	8	3683.85	4070.5	7.2	14	Electric, Manual	Water
14	T-02	DV-40-17	8	3683.85	4070.5	7.2	14	Electric, Manual	Water
15	T-03	DV-40-18	8	3683.85	4070.5	7.2	14	Electric, Manual	Water
16	T-03	DV-40-19	8	3683.85	4070.5	7.2	14	Electric, Manual	Water
17	T-03	DV-40-20	8	3683.85	4070.5	7.2	14	Electric, Manual	Water
18	T-03	DV-40-21	8	3683.85	4070.5	7.2	14	Electric, Manual	Water
19	1st Tank (5000m3)	DV-40-22	6	1854.8	2251.4	5	14	Electric, Manual	Water
20	1st Tank (5000m3)	DV-40-23	6	1854.8	2251.4	5	14	Electric, Manual	Water
21	2nd Tank (5000m3)	DV-40-24	6	1854.8	2251.4	5	14	Electric, Manual	Water
22	2nd Tank (5000m3)	DV-40-25	6	1854.8	2251.4	5	14	Electric, Manual	Water
23	3rd Tank (5000m3)	DV-40-26	6	1854.8	2251.4	5	14	Electric, Manual	Water
24	3rd Tank (5000m3)	DV-40-27	6	1854.8	2251.4	5	14	Electric, Manual	Water

	Protected Equipment	Deluge Tag No.	Size (inch)	Min. Flow rate (LPM	Flow rate (LPM)	Pressure (barg) Note 3	Operating Pressure (barg)	Actuation Type	Service
25	Tank (2000m3)	DV-40-28	4	1241.1	1319.3	4.5	14	Electric, Manual	Water
26	Tank (2000m3)	DV-40-29	4	1241.1	1319.3	4.5	14	Electric, Manual	Water
27	T-02A	DV-40-61	6	1710.9	2457	11.3	14	Electric, Manual	Foam/ Water
28	T-02B	DV-40-62	6	1710.9	2457	11.3	14	Electric, Manual	Foam/ Water
29	T-06	DV-40-63	6	1710.9	2457	11.3	14	Electric, Manual	Foam/ Water
30	T-01	DV-40-81	6	2516.7	3314	11.3	14	Electric, Manual	Foam/ Water
31	T-02	DV-40-82	6	2516.7	3314	11.3	14	Electric, Manual	Foam/ Water
32	T-03	DV-40-83	6	2516.7	3314	11.3	14	Electric, Manual	Foam/ Water
33	1st Tank (5000m3)	DV-40-32	4	1353.26	1775	11.3	14	Electric, Manual	Foam/ Water
34	2nd Tank (5000m3)	DV-40-33	4	1353.26	1775	11.3	14	Electric, Manual	Foam/ Water
35	3rd Tank (5000m3)	DV-40-34	4	1353.26	1775	11.3	14	Electric, Manual	Foam/ Water
36	Tank (2000m3)	DV-40-31	3	586.9	800	11.3	14	Electric, Manual	Foam/ Water

	Protected Equipment	Deluge Tag No.	Size (inch)	Min. Flow rate (LPM	Flow rate (LPM)	Pressure (barg) Note 3	Operating Pressure (barg)	Actuation Type	Service
37	Below deck of Jetty	DV-20-02	12	11830	12260.7	9.6*	14	Electric, Manual	Foam/ Water
38	Elevated Monitor	DV-20-03	8	6000	6000	10	14	Electric, Manual	Foam/ Water
39	Elevated Monitor	DV-20-04	8	6000	6000	10	14	Electric, Manual	Foam/ Water
40	Jetty Pump House Water Curtain System	DV-20-01	8	3470 (1550+ 1920)	5809.09	7.73	14	Electric, Manual	Water
41	Process Area Foam System(T21)	DV-40-90	8	5000	5000	13.5	14	Electric, Manual	Foam/ Water
42	Process Area Foam System (T14/T13)	DV-40-91	8	5000	5000	11	14	Electric, Manual	Foam/ Water

NOTES:

1) All information marked by "*" shall be filled in by vendor & returned during quotation stage.
2) Water source is sea water/potable water. Wet Fire water lines in Jetty are filled with sea water. Other wet firefighting lines including tank farm, camps etc. are filled with potable water from fire water tank supplied from desalination plant.
3) This column represents pressure for Down Stream of Deluge Valve
4) Hazard protection shall be as per existing area classification. If the existing data is not available, Zone 2, IIB T3 with EEia a or EExd to be considered.
5) The deluge valve shall be painted with red color RAL 3000
6) Deluge valve equipped to restriction orifice for reduce upstream pressure.
7) Sun shelter for deluge valve shall be considered.
8) Deluge valve will only be reset manually at the valve itself.