

TABLE 1

	Item No.	1	2	3	4
	TAG	03 LIC114V	07 LIC103V	08 FRC1V	08 LC1V
	Service	Surface Condensate	Surface Condensate	08 F1 Charge	Fresh Water to Water Tank
1	Type of Fluid	Liquid	Liquid	Liquid	Liquid
2	Body Type	Globe	Globe	Globe	Globe
3	Bonnet Type	Standard	Standard	Standard	Standard
4	Body Size/ Rating	1" ANSI 300RF	1" ANSI 300RF	2" ANSI 300RF	4" ANSI 150RF
5	Body material	WCB	WCB	WCB	WCC
6	Trim material	316 SS	316 SS	316 SS	A416
7	Characteristics	= %	= %	Linear	= %
8	Leakage Class	Class IV	Class IV	Class IV	Class IV
9	Actuator Type	Diaphragm	Diaphragm	Diaphragm	Diaphragm
10	Hand Wheel				
11	Actuator Colour	Red	Red	Green	Red
12	Positioner Type	PP	PP	EPP	PP
13	Solenoid Valve				
14	Air Failure	Close	Close	Open	Close
15	Accessories	AFR	AFR	AFR	AFR
16	Flow rate				
16.1	Units	IGPM	IGPM	m ³ /hr	m ³ /hr
16.2	Minimum / Normal Flow	- / 37	- / 20	15 / -	4/15
16.3	Maximum Flow	37	20	50	15
17	Flowing Temperature (°C)	50	50	175	30
18	Specific Gravity				
18.2	Liquid (at Flowing Temp.)	0.988	0.988	0.85	0.996
18.3	Density (kg/m ³)				
19	Operating Pressure (kg/cm ² gauge)				
19.1	Upstream	4.57	4.57	15.4675	0.7031
19.2	Down Stream	1.41	1.41	14.4129	0.3515
19.3	Differential Pressure	3.16	3.16	1.0546	0.3515
20	Fluid Properties at Flowing Temperature				
20.1	Liquid critical pressure kg/cm ² absolute	225.42	225.42	-	225.42
20.2	Liquid vapour pressure kg/cm ² absolute	0.126	0.126	-	0.0433
20.3	Liquid viscosity (cP)	0.5469	0.5469	90 – 170 (cSt)	0.7973
20.4	Gas Z	-	-	-	-
20.5	Gas C _p /C _v	-	-	-	-
21	Corrosive components			S	S

TABLE 1

	Item No.	5	6	7	8	9
	TAG	70 PC1V	77a LPAS8V	78 PC3V	01 DPC 107V	01 DPC 113V
	Service	LP Steam to Atmosphere	Steam to Fuel Oil Turbo Pump	Steam to 78 – K2	Atomizing steam to 01F1	Atomizing steam to 01F2
1	Type of Fluid	Steam	Steam	Steam	Steam	Steam
2	Body Type	Globe	Globe	Globe	Globe	Globe
3	Bonnet Type	Standard	Cooling fins	Cooling fins	Cooling fins	Cooling fins
4	Body Size/ Rating	8" ANSI 150RF	1 1/2" ANSI 300RF	3" ANSI 300RF	1" ANSI 300RF	1" ANSI 300RF
5	Body material	CS	CS	WCB	WCB	WCB
6	Trim material	AISI 316 ST	AISI440C	AISI 316	AISI440C	AISI440C
7	Characteristics	= %	ON/OFF	ON/OFF	= %	= %
8	Leakage Class	Class IV	Class IV	Class IV	Class IV	Class IV
9	Actuator Type	Diaphragm	Diaphragm	Diaphragm	Diaphragm	Diaphragm
10	Hand Wheel	Right hand side				
11	Actuator Colour	Red	Green	Green	Red	Red
12	Positioner Type	EPP			EPP	EPP
13	Solenoid Valve		110V, 50Hz	110V, 50Hz		
14	Air Failure	Close	Open	Open	Close	Close
15	Accessories	AFR	AFR	AFR	AFR	AFR
16	Flow rate					
16.1	Units	kg/hr	lb/hr	lb/hr	Kg/hr	Kg/hr
16.2	Minimum / Normal Flow	1,000 / 5,000	1,150 / 2,300	- / 10,500	-	-
16.3	Maximum Flow	10,000	2,760	11,600	934	373
17	Flowing Temperature (°C)	140	260	260	260	260
18	Specific Gravity					
18.2	Liquid (at Flowing Temp.)	0.926	-	-		
18.3	Density (kg/m ³)		7.9184	7.9184	7.455	7.455
19	Operating Pressure (kg/cm ² gauge)					
19.1	Upstream	3.51535	17.5767	17.5767	17.6	17.6
19.2	Down Stream	0	16.8737	16.8737	7	7
19.3	Differential Pressure	3.5135	0.703	0.703	10.6	10.6
20	Fluid Properties at Flowing Temperature					
20.1	Liquid critical pressure kg/cm ² absolute	225.42	225.42	225.42		
20.2	Liquid vapour pressure kg/cm ² absolute	3.6867	-	-		
20.3	Liquid viscosity (cP)	0.1966	0.0183	0.0183		
20.4	Gas Z	-	0.9367	0.9367	0.9354	0.9354
20.5	Gas C _p /C _v	-	1.39	1.39	1.39	1.39
21	Corrosive components					

TABLE 1

	Item No.	10 & 11	12 & 13	14	15	16
	TAG	70 LC 101V 70 LC 103V	70 LC 102V 70 LC 104V	70 FCV 7043	70 FCV 7040	70 PCV 7048
	Service	Surface Condensate	Surface Condensate	Boiler feed water	Atom. steam	Start up steam
1	Type of Fluid	Liquid	Liquid	Liquid	Steam	Steam
2	Body Type	Globe	Globe	Globe	Globe	Globe
3	Bonnet Type	Standard	Standard	Universal	Universal	Universal
4	Body Size/ Rating	1" ANSI 300RF	2" ANSI 150RF	3" ANSI 600RF	3/4" ANSI 600RF	3" ANSI 600RF
5	Body material	WCC	WCC	WCC	WCC	SA 217 WC9
6	Trim material	NO 5500	316 SS	SA182/SA479	SA182/SA479	SA 182 F6
7	Characteristics	= %	= %	Linear	= %	= %
8	Leakage Class	Class IV	Class IV	Class V	Class V	Class V
9	Actuator Type	Diaphragm	Diaphragm	Diaphragm	Diaphragm	Diaphragm
10	Hand Wheel			Side mounted	Side mounted	Side mounted
11	Actuator Colour	Green	Red	Green	Red	Red
12	Positioner Type	PP	PP	EPP	EPP	EPP
13	Solenoid Valve					
14	Air Failure	Open	Close	Locked (Open)	Locked (Close)	Locked (Close)
15	Accessories	AFR	AFR	AFR, LR	AFR, LR	AFR, LR
16	Flow rate					
16.1	Units	m ³ /hr	m ³ /hr	kg/hr	kg/hr	kg/hr
16.2	Minimum / Normal Flow	/ 7.8	/ 33			
16.3	Maximum Flow	7.8	33	30,000	600	6,000
17	Flowing Temperature (°C)	50	50	105	254	405
18	Specific Gravity					
18.2	Liquid (at Flowing Temp.)	0.989	0.988	0.956		
18.3	Density (kg/m ³)				21.03	13.34
19	Operating Pressure (kg/cm ² gauge)					
19.1	Upstream	10	6.5	46 bar(a)	42 bar(a)	39.55 bar(a)
19.2	Down Stream	0		43.2 bar(a)	16 bar(a)	12 bar(a)
19.3	Differential Pressure	10	92.452 (psi)			
20	Fluid Properties at Flowing Temperature					
20.1	Liquid critical pressure kg/cm ² absolute	220.64 bar(a)	220.64 bar(a)	221.2 bar(a)		
20.2	Liquid vapour pressure kg/cm ² absolute	0.12351 bar(a)	0.12351 bar(a)	1.21 bar(a)		
20.3	Liquid viscosity (cP)	0.547	0.547			
20.4	Gas Z	-	-		0.82	0.95
20.5	Gas C _p /C _v	-	-		1.27	1.28
21	Corrosive components					