

Technical Specification

	Item No.	1	2	3	4	5	6	7	8	9	10	11	12
	TAG	77b-PRC-2AV	02-DPCV-13	02-DPCV-23	02-DPCV-117	02-FRC-85	02-PRC-47AV	02-FRC-105AV	02-FRC-105BV	03-LC-76V	03-FRC-21V	07-FRC-69V	01-FRC-55V
	Service	Fuel Gas to System	Atomizing Steam to 02-F1	Atomizing Steam to 02-F1	Atomizing Steam to 02-F2	Stripper Reflux	Hydrogen to Unifier	Splitter Bottom to Reboiler Heater	Splitter Bottom to Reboiler Heater	Prod. Sep. Liquid to Staqbilizer	Treated Boiler Feed Water to 03-V3	Charge to Stripper Reboiler Heater	TPA Injection to Kero C2A
1	Type of Fluid	Gas	Steam	Steam	Steam	Liquid	Gas	Water	Water	Liquid	Water	Liquid	Liquid
2	Body Type	Globe	Globe	Globe	Globe	Globe	Globe	Globe	Globe	Globe	Globe	Globe	Globe
3	Bonnet Type	Standard	Cooling fins	Cooling fins	Cooling fins	Standard	Standard	Standard	Standard	Standard	Standard	Cooling fins	Standard
4	Body Size/ Rating	1 1/2" ANSI 300RF	1" ANSI 300RF	1" ANSI 300RF	1" ANSI 300RF	1 1/2" ANSI 300RF	1" ANSI 600RF	3" ANSI 150RF	3" ANSI 150RF	2" ANSI 300RF	1" ANSI 300RF	3" ANSI 300RF	2" ANSI 300RF
5	Body material	CS	CS	CS	CS	CS	CS	CS	CS	CS	CS	CS	CS
6	Trim material	AISI 316 Stellite	AISI440C	AISI440C	AISI440C	Monel K-500	Monel K-500	AISI 316	AISI 316	Monel K-500	AISI 316	AISI 316	AISI 316
7	Characteristics	Linear	= %	= %	= %	Linear	= %	= %	= %	= %	= %	Linear	= %
8	Leakage Class	Class IV	Class IV	Class IV	Class IV	Class IV	Class IV	Class IV	Class IV	Class IV	Class IV	Class IV	Class IV
9	Actuator Type	Diaphragm	Diaphragm	Diaphragm	Diaphragm	Diaphragm	Diaphragm	Diaphragm	Diaphragm	Diaphragm	Diaphragm	Diaphragm	Diaphragm
10	Hand Wheel												
11	Actuator Colour	Red	Red	Red	Red	Green	Red	Green	Green	Red	Green	Green	Red
12	Positioner Type	EPP	EPP	EPP	EPP	EPP	EPP	EPP	EPP	EPP	EPP	EPP	EPP
13	Solenoid Valve												
14	Air Failure	Close	Close	Close	Close	Open	Close	Open	Open	Close	Open	Open	Close
15	Accessories	AFR, HW	AFR	AFR	AFR	AFR	AFR	AFR	AFR	AFR	AFR	AFR	AFR
16	Flow rate												
16.1	Units	MT/D	lb/hr	lb/hr	lb/hr	MT/D	SCF/H	MT/D	MT/D	MT/D	MT/D	m ³ /h	MT/D
16.2	Minimum / Normal	10	155	140	170	275	53,700	705	705	600	95	114.9	125
16.3	Maximum Flow	30	310	280	340	445	59,070	994	994	650	150	230	250
17	Flowing Temperature (°C)	40	260	260	260	38	40	137	137	38	100	289	150
18	Density/Gravity/MW at Flowing Temp.												
18.2	Specific Gravity	-	-	-	-	-	-	-	-	-	-	-	-
18.3	Density (kg/m ³)	-	7.92	7.92	7.92	580	9.0	631	631	727	959.6	637	700
18.4	MW	20	18	18	18	53	4.2	115	115	-	-	-	-
19	Operating Pressure (kg/cm2 gauge)												
19.1	Upstream	11.25	17.58	17.58	17.58	10.55	60.46	6.32	6.32	25.04	28.12	7.17	8.5
19.2	Down Stream	4.22	7.03	7.03	7.03	9.14	53.43	4.57	4.57	19.76		3.73	1.7
19.3	Differential Pressure	7.03	10.55	10.55	10.55	1.41	7.03	1.75	1.75	5.28		3.44	
20	Fluid Properties at Flowing Temperature												
20.1	Liquid critical pressure kg/cm ²											16.82	
20.2	Liquid vapour pressure kg/cm ²											2.32	
20.3	Liquid viscosity (cP)	-	0.0183	0.0183	0.0183	0.483	-	0.25	0.25	0.361	0.2824	0.252	0.28
20.4	Gas Z	0.98	0.9366	0.9366	0.9366	1.12	1.00						
20.5	Gas C _p /C _v	1.32	1.39	1.39	1.39		1.39	1.15	1.15	1.15			
21	Corrosive					S		S	S				