

			DATA SHEET			
PROJECT			DATA SHEET 54 of 476			
UNIT			SPEC			
ITEM			TAG			
CONTRACT			DWG			
			SERVICE			
			P&ID			
1 Process Fluid / Phase : N2 & Y FLUID (GAS)			Crit Press (barg) 32.9			
		Units	Max. Flow	Norm. Flow	Min. flow	Shut-Off
2	Flow Rate	kg/h	93.9		21.3	
3	Inlet Pressure	Barg	4.49		9.49	
4	Outlet Pressure	Barg	0.41		-0.05	
5	Differential Pressure	Bar	4.08		9.54	11.5
6	Inlet Temperature	°C	40			
7	Density / Mol. Wt.	kg/m3 / kg/kmol	1.28	*		
8	Viscosity / Specific Heats Ratio	cP / -	0.019 / 1.4	-		
9	Compressibility Factor	-	1			
10	Inlet Vapor Pressure	Barg				
11	Required Cv	-	1.07	*	0.12	
12	Travel	°	78.2	-	22.61	
13	Allowable / Predicted	dBA	85 / 83.3	*	85 / 76	
14	Fluid able to	No Alteration				
15	Solids in Suspension	No				
16	Pipe Line Size	In 2" S-40	56	Type	Spring return diaphragm or piston type	
17	& Schedule	Out 2" S-40	57	MFR & Model	KOSO / 5200LA	
18	Pipe Class/Line Insulation/Thickness	1AAY_G20 / N / mm	58	Size	218	Eff. Area *
19	Type	Globe	59	On / Off	-	Modulating YES
20	Size	1" ANSI Class 300# RF	60	Spring Action Open/Close	Close (F.C)	
21	Max Press(Barg)/Temp(°C)	10.5/FV / 150	61	Max Allowable Pressure	*	
22	MFR & Model	KOSO / 501T	62	Min Required Pressure	*	
23	Body/Bonnet Matl	ASTM A105	63	Available Air Supply Pressure	Nor	7 barg
24	Uner Material / ID	-	64	Max	10.5 barg	Min 4.2 barg
25	End	In 1" ANSI 300# RF	65	Branch Range	*	
26	Connection	Out 1" ANSI 300# RF	66	Actuator Orientation	Vertical Up	
27	Flg Face Finish	125 to 250 AARH	67	Handwheel Type	NO	
28	End Ext / Material	- / -	68	Air Failure Valve	*	Set at -
29	Flow Direction	Flow To Open	69			
30	Type of Bonnet	Bolted-Standard	70	Input Signal	4 - 20mA (HART)	
31	Lub & Iso. Valve	- Lube -	71	Type	E/P Type	
32	Packing Material	TFE+Graphite	72	MFR & Model	METSO / ND9203HE1	
33	Packing Type	FE Packing	73	On Incr signal Output Incr/Decr	To Open The Valve	
34	ANSI/FCI Leakage Class	IV	74	Gauges	YES	By-Pass -
35	Type	Top Guided	75	Cam Characteristic	-	
36	Size	3/8"	76			
37	Characteristic	Equal percentage	77	Type	-	Quantity -
38	Balanced /Unbalanced	Unbalanced	78	MRF & Model	- / -	
39	Rated CV	2.5	79	Contacts / Rating	-	
40	Plug / Ball / Disk Material	13CR	80	Actuation Points	-	
41	Seat Material	13CR	81			
42	Cage / Guide Material	316SS / 316SS	82	MRF & Model	PARKER / P31EA92EMMBNNP	
43	Stem Material	13CR	83	Set Pressure	3	
44			84	Filter	YES	Gauge YES
45			85			
46	Area Classification	ZONE 1 or 2, IIB or IIC, T4	86	Type	-	
47	Electric connection	1/2" NPT	87	Power	-	
48	Pneumatic connection	MFR.STD	88	MFR & Model	- / -	
49	Enclosure class	Ex d, IIB or IIC, T4, Min IP65	89	Material	-	
50	Tube & fitting material	316SS	90	Manual Reset	-	
51	Fugitive Emission Test	ISO 15848-1/2 (CLASS B)	91			
52	Full Stroking Time	< 15 Sec				
53		Body Silver (RAL 9006)				
54	Coating Colour	Handle -				
55		Actuator Silver (RAL 9006)				

Notes: 1. All electrical equipment shall be certified by KOSHA, KGS or KTL

CONTROL VALVE DATA SHEET

		Project				Sheet No.			
		Customer		Co., Ltd.		Tag No.		PV-5678	
		End User				Q'ty		1	
		Ref. No.				Prepared By			
		Spec No./Rev.		/		Date			
1	SERVICE CONDITIONS	Fluid Name / State		LS / STEAM					
2		Unit		Max.		Nor.		Shut Off Dp.	
3		Flow Rate		Kg/hr		42		33	
4		Inlet Pressure		Kg/cm2G		2.8		2.8	
5		Differential Pressure		Kg/cm2		2.6		2.6	
6		Inlet Temperature		Deg C		167.5		167.5	
7		Molecular Weight		MW		18		18	
8		Specific Heat Ratio		k		1.354		1.354	
9		Calculated Cv		Cv		1.01		0.797	
10.0		Opening Travel		%		44.1		38.0	
11		Cavitation / Flashing							
12		Predicted SPL		dBA		74		72	
13									
14	GENERAL	Inlet Pipe Size		1 Inch 80 Sch.		42		Actuator Type	
15		Outlet Pipe Size		1 Inch 80 Sch.		43		DIAPHRAGM	
16		Design Pressure		5 Kg/cm2G		44		Size	
17		Design Temp.		200 Deg C		45		T-1	
18	BODY / BONNET	Mfr & Model				46		Spring Range	
19		Body Type		Globe		47		1.0~3.0 <kg/cm2>	
20		Body Size		1" (25A)		48		Air Fail Pos. / Air To	
21		Rating & Connection		ANSI 150# RF		49		CLOSE / OPEN	
22	TRIM	Bonnet Type		PLAIN		50		Min. Air Supply	
23		Trim Type		S-P / TOP		51		4 <kg/cm2>	
24		Size		3/4"		52		Handwheel	
25		Flow Character.		EQ%		53		-	
26	MATERIAL	ANSI Leakage Class		IV		54		Type	
27		Body / Bonnet		A351CF8		55		SMART	
28		Plug /Disc /Ball		304SS+STL		56		Mfr. / Model	
29		Seat		304SS+STL		57		AZBIL / AVP-302	
30	OTHERS	Packing / Gasket		GRAPHITE / GRAPHITE		58		Input / Output Signal	
31		Bolt / Nut		A193GrB8M / A194GrB8M		59		4~20mA DC / -	
32						60		Increase Signal To	
33		Fitting / Tubing Material		316SS / 316SS		61		OPEN	
34	LIMIT SW	Elect. Connection		1/2" NPT		62		Type	
35		Air Connection		1/4" NPT		63		-	
36		Enclosure		Exd IIC T4		64		Mfr. / Model	
37		Painting(Body / Actuator)		- / STD.(BLUE)		65		-	
38	ACC. OTHERS	Cleaning Service		-		66		Voltage	
39		NACE Requirement		-		67		-	
40						68		De-Energized	
41						69		-	
								Special Notes	
								1.	
								2.	
								3.	