MH CONTROL AND DUMP VALVES

Sr#	Description			
1	Control Valve1Please refer to the attached technical specifications document for further details			
2	On/Off Valve Please refer to the attached technical specifications document for further details			
 Notes: a. Technical specifications and literature of the offered items must be provided with the quotation. b. Make and country of origin of the offered items should be mentioned in the quotation. 				

Control Valve Specifications Sheet				
	11	Valve type	Globe Control Valve with Single acting dlaphragm	
General/Service Condition	~ 7.	Medium	Water	
			3"	
, Pa	4		40 Sch	
V ا		Flow rate 1	as per table below at Sr No. 69	
. 9		Flow rate 2	as per table below at Sr No. 70	
2			as per table below at Sr No. 71	
S			90 deg. C	
a	10		500 mbar	
a Li			276 mbar	
G			Modulating	
	13	·····	7.5 bar	
Same in	. 14	Style	Two way cast Globe Valve	
Ē	15	Valve size	3*	
R	16	Pressure class	150 lb	
Valve Body/Jonnet	17	Flow direction	Flow under	
	18		ASTM-351-GrCF3	
	19	Type of bonnet	Bollow Scaled	
	20	Connection Type (IN/OUT)	Butt Welded ends as per sch 40.	
	1.21.1	Type:	Unbalanced/Top guided	
E	22	characteristic	Equal percentage	
Thin	23	Plug/Box/Disk material	ASTM-A-182Gr-F304L	
		Seal material Stem Moterial	ASTM-A 182Gr-F304I	
			ASTM A-182Gr-F304L	
		Action/Type	Single acting Diaphrein/Air to close spring to open Modulating	
5			Open	
Actuator		Air to	Close	
E G		Max air supply for actuation	5 bar	
4	31	Fail position	Valve Open	
Ì		Actuation Orientation	Vertical	
	· 33	Manufacturer .	ASCO Red Hat	
e e	34	De-Energized	Valve Open	
Solenaid Valve	35	Elec. Supply	110V DC	
1	36	Туре	Quick Exchaust 3-way, N.C	
j'i	37	Gauges/material/scale unit	Required guages, brass/SS Psi/bar	
E I		Tubing material/size for		
S	38	instrument air on solenoid and	Si 3U4/ 1/4" NPT	
		actualor		
. 5	39 .	input signal	2 wim, 4-70 mA DC	
Ĕ	40	Туре	single acting with position transmitter	
Ē	41	Gcages	Yes	
Positioner	42	Com characterteristics	Equal percentage	
<u> </u>	43 .	Supply.	As per standard	
5	-44	Туре	HI.RMITICALLY Sealed	
1	. 45	On ICR Signal output	Increase	
Limit Switch	46	Contacts/Action Position	SPDT Full Open & Full Close	
		D .:		
	48	Model	24V DC;10A Jouco.FRS 107 NPT 1/4" Direct Mounted	
	50	Set Pressure	0-10 Bar	
Airset	50	Filter	Yes	
i.	52	Gauge	Yes	
	53	Regulator	Yes	
-	54	Dimensional Drawing	······································	
. U		Data sheets	Manufacturer should provide following documentation in	
Doc	· ***56**		English Language	
1	57	Standard Test certificates		
			y manufacturer/supplier at their premises or any other 👘	
	i'	mutually agreed lab in the presence	e of purchaser Engineer	
	58	Liquid ponotrant test	, · · ·	
1.	59	Hydrostatic pressure test	ISA-75.19.01-2001	
1.	60	Seat leak Tost		
Tests		Radiography, X-ray examination	45/ (P = 1 = 2 = 2 = 2 = 2 = 2 = 2 = 2 = 2 = 2	
۳,	61	and inspection test (4 pic for		
		body+1)		
	62	Dead band test	ISA-75.13-1996	
	63	Stroking time test Fresquency response test	ANSI/ISA-TR75.25.02-2000	
	64	characteristic curve test	ISA-75.13-1996	
-	1 03	As per recommendation of	1291 1 2 L 17 L 27 11	
1 0		supplier or		
Spares	66	Actuator diaphragms (02 Nos)		
Spa	67	Position Transmitter (02 Nos)	· · · · · · · · · · · · · · · · · · ·	
	68	Solenoid Valve (01 No)		
		Table for Flow Rate	y	
		Flow Rate	Rcq Valve Open in %	
1.1.2.	69	11.69 m3/hr - "	38	
1	1 70	28.33 m ³ /ltr	53	
10	70			
Flow	71	67.29 m ³ /hr	84	

Г	ON-OFF Valve Specifications Sheet					
	C	1	Valve type	ON-OFF Globe Valve with Single acting diaphragm		
1	tio	Z	Medium)	Water		
	di	З	Line size	4"		
	ō	4	Line schedule	40 Sch		
1	General/Service Condition	5	Flow	18 - 38 m ³ /hr		
1.	Vic	6	Service	ON-OFF		
1	Ę.	7	Temperature	90 deg. C		
1	1/S	8	Normal Inlet pressure	500 mbar : 35		
1	2	9	Max Inlet pressure	650 mbar		
	Č.		Outlet Pressure	374 mbar 446		
	Ğ	11	Diff pressure at Shut Off	1.5 bar		
1	1412 1	12	Турс	Two way cast Globe Valve		
ł	et	13	Valve size	4" (Full bore)		
	Valve Body/Bonnet	14	Pressure class	150 lb		
	BC.	15		Horizontal		
1	2	16	Body/ bonnet material	ASTM-351-GrCF3		
1	0	17	Type of bonnet	Bellow Sealed		
	Đ.	18	Connection Type (IN/OUT)	Butt-Welded ends us por sch 40		
1	alv	.19	Packing Material	PTFE 3		
1	>	20	Seat Leakage	min Class V		
-		21	Туре	Single Seated		
		22	characteristic	Quick Open		
1	Trim	23	Plug/Box/Disk matchal	ASTM-A-182Gr-F304L		
	F	24	Seat material	ASTM-A-182Gr-F304L		
I		25	Stem Material	ASTM-A-182Gr-F304L		
F		25	Action/Type	Single acting Diaphram/Air to close spring to open		
1		27	Service	ON-OFF		
1	5	28	Spring action open/close	Open		
	lat	29	Air to	Close		
1	Actuator	30	Max air supply for actuation	5 bar		
1	4	31	Fail position	Valve Open		
		32	Actuation Orientation	Vertical		
-	_	33	Manufacturer	ASCO Red Hat		
	۵.	33		Valve Open		
	2	34	De-Energized Elec. Supply	110V DC		
	Solenoid Valve	36	Туре	Quick Exchaust 3-way, N.C		
	oid	36	Gauges/material/scale unit	Kequired guages, bross/55 Psi/bar		
	G	57	Tubing material/size for	redonied Rowkes' orazztabi kzi/dat		
1	0	Contra Contra	instrument air on solenoid and	SS 304/ 1/4" NPT		
1	"	20	actuator			
F	÷,	39	Туре	HERMITICALLY Sealed		
1	Limit Switch		Contacts/Action	SPDT		
1.	t S		Position	Full Open & Full Close		
	Ē		Rating	Z4V DC:10A		
는	-+		all and the second seco			
1	·		Model	Jouco,FRS 107 NPT 1/4" Direct Mounted		
1	ti -		Set Pressure	0-10 Bar		
	Si I		Filter	Yes		
1	- -	the strates	Gauge	Yes		
L	_		Regulator	Yes		
			Dimensional Drawing			
			Data sheets	Manufacturer should provide following documentation in		
1	≏∣		Operation manuals	English Lunguage		
	-		Standard Test certificates	· · · · · · · · · · · · · · · · · · ·		
. :	1		-	manufacturer/supplier at their premises or any other		
			mutually agreed lab in the presence	e of purchaser Engineer		
ł.	" [52	Liquid penetrant test			
	lests		Hydrostatic pressure test	ISA-75.19.01-2001		
ļŕ	≝ [Seat leak Test			
	Ĭ		Radiography, X-ray examination			
1		55	and inspection test (4 pic for			
}	ľ		body+1)			
			As per recommendation of			
	~		in per reconnicencer ar ar			
	Ires	1	supplier or			
	spares	56				