

Specifications of Control Valve

Annexure-A
P: 2/3

			1		2		
GENERAL	1	Item No.					
	2	Tag No.	FCV-CW		PCV-STM		
	3	service	Chilled Water		Steam		
	4	Quantity	01		01		
	5	Line No./Vessel no.					
	6	Line Size/Sch.No.	40mm/40		40mm/40		
VALVE	7	Type of Body	Globe		Globe		
	8	Body Size					
	9	Guiding	No. of Ports				
	10	End Connection & Rating	RF Flanged ANSI # 150		RF Flanged ANSI # 150		
	11	Body Material	SS-304L		SS-304L		
	12	Packing Material	MFG STD		MFG STD		
	13	Lubricator	Isolating Valve				
	14	Bonnet Type	MFG STD		MFG STD		
	15	Trim Form	Linear		Equal Percentage		
	16	Trim Material Seal/Plug	MFG REM		MFG REM		
	17	shaft Material	MFG REM		MFG REM		
	18	Reqd. Seat Thickness	ANSI IV		ANSI IV		
	19	Max. Allow sound Level dBa	As per standard		As per standard		
	SERVICES	20	Flow Units	kg/hr		kg/hr	
		21	Fluid	Water		Steam	
		22	Qty. Max.	Cv	4500	1000	
		23	Qty. Opr.	Cv	3500	350	
		24	Valve Cv	Valve Fl			
		25	Norm. Inlet Press.	delta P	0.2 bar	03 bar	
26		MAX. Inlet Press.		2 bar	05 bar		
27		Max. Shut Off (delta P)					
28		Temp. Max. °C	Operating	20	08	175	135
29		Opr. Sp.gr.	Mol.Wt.	1	18	1	18
30		Opr. Viscosity(cp)	%Flash	1.38		0.013	
31		% Superheat	% Sound				
32		Vapor Press.	Crit. Press.(bar)				
33		Predicted Sound Level					
I/P Convertor	34	Input Signal	04-20mA (2 wire)		04-20mA (2 wire)		
	35	Output Signal	03-15psi(g)		03-15psi(g)		
	36	Enclosure Class	EEx(d)IICT4,IP65		EEx(d)IICT4,IP65		
	37	Exposed Material	SS304/Aluminum		SS304/Aluminum		
	38	Air Supply Pressure	03bar		03bar		
	39	Power Supply	24VDC		24VDC		
	40	Air Supply Connections	1/4" NPT Thread(F)		1/4" NPT Thread(F)		
ACTUATOR	41	Type of actuator	Single Effect Spring Acting		Single Effect Spring Acting		
	42	Close at	Open at	03 psi	15 psi	03 psi	15 psi
	43	Fail Safe Position	Open		Close		
	44	Hand Wheel	Yes		Yes		
OPTIONS	45	Integral Assembly of I/P convertor and Actuator fitted on valve					

GENERAL	1	Item No.		3		4	
	2	Tag No.		FCV-DMW		FCV-Feed	
	3	service		DMW		Feed	
	4	Quantity		01		01	
	5	Line No./Vessel no.					
	6	Line Size/Sch.No.		40mm/40		50mm/40	
VALVE	7	Type of Body		Globe		Globe	
	8	Body Size					
	9	Guiding		No. of Ports			
	10	End Connection & Rating		RF Flanged ANSI # 150		RF Flanged ANSI # 150	
	11	Body Material		SS-304L		SS-304L	
	12	Packing Material		MFG STD		MFG STD	
	13	Lubricator		Isolating Valve			
	14	Bonnet Type		MFG STD		MFG STD	
	15	Trim Form		Linear		Linear	
	16	Trim Material Seal/Plug		MFG REM		MFG REM	
	17	shaft Material		MFG REM		MFG REM	
	18	Reqd. Seat Thickness		ANSI IV		ANSI IV	
	19	Max. Allow sound Level dB		As per standard		As per standard	
SERVICES	20	Flow Units		kg/hr		kg/hr	
	21	Fluid		Water		Acetone Mixture	
	22	Qty. Max.		Cv		4000	
	23	Qty. Opr.		Cv		3000	
	24	Valve Cv		Valve Fl			
	25	Norm. Inlet Press.		delta P		0.6 bar	
	26	MAX. Inlet Press.				1 bar	
	27	Max. Shut Off (delta P)				1 bar	
	28	Temp. Max. °C		Operating		40	
	29	Opr. Sp.gr.		Mol. Wt.		25	
	30	Opr. Viscosity(cP)		%Flash		70	
	31	% Superheat		% Sound		60	
	32	Vapor Press.		Crit. Press.(bar)		0.8	
I/P Convertor	34	Input Signal		04-20mA (2 wire)		04-20mA (2 wire)	
	35	Output Signal		03-15psi(g)		03-15psi(g)	
	36	Enclosure Class		EEx(d)IICT4,IP65		EEx(d)IICT4,IP65	
	37	Exposed Material		SS304/Aluminum		SS304/Aluminum	
	38	Air Supply Pressure		03bar		03bar	
	39	Power Supply		24VDC		24VDC	
	40	Air Supply Connections		1/4" NPT Thread(F)		1/4" NPT Thread(F)	
ACTUATOR	41	Type of actuator		Single Effect Spring Acting		Single Effect Spring Acting	
	42	Close at		Open at		03 psi	
	43	Fail Safe Position				15 psi	
	44	Hand Wheel		Yes		Close	
OPTIONS	45	Integral Assembly of I/P convertor and Actuator fitted on valve					

Make: Zhejiang Youngsheng Instrumentation Co. Ltd. China or equivalent.