

Item No. / Qty	1	1	Ref. No.		
Tag No.	PV-9703		Purchaser		
Service			End user		
			Project		
			Unit name		
<Control valve>	Model	HCB		<Remarks>	
	Description	Pressure Balanced Cage Type Control Valves		SV0703-105 Indicating unit : "kgf/cm2"	
	Body/Port size	4 in.	4 in.	SV0601-001 Air piping Connection: 1/4 NPT	
	Conn. Size. / Rated CV		175	SV0201-007 Seat leakage: Less than 0.5%CV (Equivalent IEC, JI	
	Rating / Conn. Type	ANSI300	RF	Class II)	
	Body material	SCPH2		SV0212 Cage plug with piston ring	
	Trim material	SCS24		***	
	Flow characteristic	EQ%		Existing Production No.: R-93961-41-020, HCB 4"x 4", ANSI	
	Bonnet	EXT-1 (230 to 450 degC)		300RF, HA3	
	Actuator / Handle	HA3R	---		
	Action	AIR TO OPEN			
	Gland packing / Grease	P6610CH+P6528	PS6		
	Gasket	V543,V8590			
	Air supply / Spring range	2.8kgf/cm2	0.8-2.4kgf/cm2		
	Seat leakage	CLASS II			
	Color: Body/Diaph./Yoke	M10B5/10	M10B5/10	M10B5/10	
	Paint	Standard			
<Accessories>	Positioner	HEP15-12BLRY7RGSD-D1-X			
	Structure	TIIS Flameproof			
	Input signal	4-20 mADC			
	Regulator	KZ03-2B-XX			
	Regulator2				
	Limit switch				
	Action				
	Solenoid valve				
	Action / Power				
	Booster				
	Air lock valve				
	Action				
	<Process data>	Fluid name/Phase	Steam	STEAM	<Piping spec.>
		MAX	NOR	MIN.	Unit
Flow rate		8000	4000	0.5	kg/h
Inlet pressure		16	16		kgf/cm2G
Outlet pressure		15.5	15.5		kgf/cm2G
Differential press.		0.5	0.5		kgf/cm2
Shut-off press.					kgf/cm2
Temperature		240	240		degC
Density/Gravity(Liq)					kg/m3
Density/Gravity(G,V)		7.573	7.573		kg/m3(A)
Viscosity		0.01744	0.01744		mPa-s
Flash					%
Calculated CV		154.2	77.09		
Travel		96	73		%
Outlet velocity		0.0693	0.03465		Mach
Predictive SPL		53	53		dBa
				Strength Calc. Sheet	
				Design	
				Press.	
				Temp.	
				Pipe	
				Up stream	
				Down stream	
				Size	
				Sch No.	
				Thickness	
				mm	
Yamatake Corporation					