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Control Valve Data Sheet

Item No. / Qty		22	1	Ref. No.	
Tag No.		12-HV-004		Purchaser	
Service				End user	
				Project	
				Unit name	

<Control valve>				
Model	HTS			
Description	Top-Guided Single Seated Control Valves			
Body/Port size (in.)	6	4		
Conn. Size. / Rated CV		175		
Rating / Conn. Type	ANSI600	RF		
Body material	SCS13A			
Trim material	SUS316 STELLITE			
Flow characteristic	EQ%			
Bonnet	EXT-1 (230 to 450 degC)			
Actuator / Handle	DAP1500	SIDE		
Action	AIR TO CLOSE			
Gland packing / Grease	P6610CH+P6528	PS6		
Gasket	V543			
Air supply / Spring range	5.0kgf/cm2	---		
Seat leakage	CLASS IV			
Color: Body/Diaph./Yoke	Non Painting	2.5Y8/12	2.5Y8/12	
Paint	Standard			

<Remarks>

SV0201-003 Seat leakage: Less than 0.01%CV (Equivalent IEC, JIS Class IV)

SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap

SV0003-001 Valve size indication: ' " '

SV0601-001 Air piping Connection: 1/4 NPT

SV0703-105 Indicating unit : "kgf/cm2"

SV0210 High shut-off pressure trim for Model HTS

SV0603-003 Air-fail-Open system with 200L tank

Be noted that:

1) The offered valve is based on the process data of production No. 416-8301-3400.

2) Offered the model HTS(single seated) instead of the old model VST (single seated valve) which was phased out in production so many years ago.

*Air regulator with 10kgf/cm2 gauge

SV0501-201 Actuator and bonnet mounting position No.2

<Accessories>			
Positioner	VPP03-1		
Structure			
Input signal	0.2-1.0 kgf/cm2		
Regulator	KZ03-3B-1C	1	
Regulator2			
Limit switch			
Action			
Solenoid valve			
Action / Power			
Booster			
Air lock valve			
Action			
Action			
Action			

V93-5028 04 36

<Process data>					
Fluid name/Phase	SH STEAM			STEAM(FCI)	
	MAX	NOR	MIN	Unit	
Flow rate	27483			kg/h	
Inlet pressure	43.2			kgf/cm2A	
Outlet pressure				kgf/cm2A	
Differential press.	42.2			kgf/cm2	
Shut-off press.	54.1			kgf/cm2	
Temperature	400			degC	
Density/Gravity(Liq)				kg/m3	
Density/Gravity(G,V)	14.49			kg/m3(A)	
Viscosity	0.02338			cP	
Flash				%	
Calculated CV	64.07				
Travel	62			%	
Outlet velocity	2.014			Mach	
Predictive SPL	127			dBA	

<Piping spec.>

Strength Calc. Sheet				
Design	Press.			kPaG
	Temp.			degC
Pipe		Up streem	Down streem	
	Size			inch
	Sch No.			
	Thickness			mm

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Control Valve Data Sheet

Item No. / Qty	23	1		Ref. No.	
Tag No.	12-HV-006			Purchaser	
Service				End user	
				Project	
				Unit name	

<Control valve>

Model	HTS		
Description	Top-Guided Single Seated Control Valves		
Body/Port size (in.)	4	3	
Conn. Size. / Rated CV		99	
Rating / Conn. Type	ANSI600	RF	
Body material	A216WCB		
Trim material	SUS316 STELLITE		
Flow characteristic	EQ%		
Bonnet	PLAIN (-17 to 230 degC)		
Actuator / Handle	DAP560	SIDE	
Action	AIR TO OPEN		
Gland packing / Grease	NP4519	---	
Gasket	V543		
Air supply / Spring range	5.0kgf/cm2	---	
Seat leakage	CLASS IV		
Color: Body/Diaph./Yoke	7.5R3/12	7.5R3/12	7.5R3/12
Paint	Standard		

<Remarks>

SV0201-003 Seat leakage: Less than 0.01%CV (Equivalent IEC, JIS Class IV)

SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap

SV0003-001 Valve size indication: ' " '

SV0601-001 Air piping Connection: 1/4 NPT

SV0703-105 Indicating unit : "kgf/cm2"

SV0210 High shut-off pressure trim for Model HTS

SV0604-001 Air-fail-Close system with 3.9L tank

Be noted that:

1) The offered valve is based on the process data of production No. 416-8301-4310.

2) Offered the model HTS(single seated) instead of the old model VST (single seated valve) which was phased out in production so many years ago.

*Air regulator with 10kgf/cm2 gauge

<Accessories>

Positioner	VPP03-1	
Structure		
Input signal	0.2-1.0 kgf/cm2	
Regulator	KZ03-3B-1C*	1
Regulator2		
Limit switch		
Action		
Solenoid valve		
Action / Power		
Booster		
Air lock valve		
Action		
Action		
Action		

V93-5028-05 37

<Process data>

Fluid name/Phase	WATER		WATER	
	MAX	NOR	MIN	Unit
Flow rate	42.0			m3/h
Inlet pressure	52			kgf/cm2A
Outlet pressure				kgf/cm2A
Differential press.	3.2			kgf/cm2
Shut-off press.	68			kgf/cm2
Temperature	125			degC
Density/Gravity(Liq)	941.3			kg/m3
Density/Gravity(G,V)				kg/m3(A)
Viscosity	0.2291			cP
Flash				%
Calculated CV	26.59			
Travel	56			%
Inlet velocity	1.486			m/s
Predictive SPL	67			dBA

<Piping spec.>

Strength Calc. Sheet				
Design	Press.			kPaG
	Temp.			degC
Pipe		Up streem	Down streem	
	Size			inch
	Sch No.			
	Thickness			mm

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