

















Item No. / Qty	10	1	Ref. No.			
Tag No.	10-FV-042		Purchaser			
Service			End user			
			Project			
			Unit name			
<Control valve>	Model	HTS		<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" SV0101-004 Flange facing finish : Serration ANSI B16.5 (Spiral) SV0705-001 Without by-pass cock for HTP positioner Be noted that: 1) The offered valve is based on the process data of production No. 416-8299-1500. 2) Offered the model HTS(single seated valve) instead of the ol model VDP (double seated valve) which was phased out in production so many years ago. *AIR REGULATOR WITH 0-4kgf/cm2 gauge		
	Description	Top-Guided Single Seated Control Valves				
	Body/Port size (in.)	1-1/2	1-1/2			
	Conn. Size. / Rated CV		30			
	Rating / Conn. Type	ANSI150	RF			
	Body material	A216WCB				
	Trim material	SUS316				
	Flow characteristic	EQ%				
	Bonnet	PLAIN (-17 to 230 degC)				
	Actuator / Handle	HA2R	---			
	Action	AIR TO OPEN				
	Gland packing / Grease	NP4519	650			
	Gasket	V543				
	Air supply / Spring range	2.8kgf/cm2	0.8-2.4kgf/cm2			
	Seat leakage	CLASS IV				
Color: Body/Diaph./Yoke	SILVER	2.5Y8/12 2.5Y8/12				
Paint	Standard					
<Accessories>	Positioner	HTP-1D				
	Structure					
	Input signal	0.2-1.0 kgf/cm2				
	Regulator	KZ03-2B-1B*	1			
	Regulator2					
	Limit switch					
	Action					
	Solenoid valve					
	Action / Power					
	Booster					
	Air lock valve					
	Action					
Action						
Action						
			V93-5028-00 6			
<Process data>	Fluid name/Phase	HGO	LIQUID	<Piping spec.> Strength Calc. Sheet Design Press. kPaG Temp. degC Pipe Up stream Down stream Size inch Sch No. Thickness mm		
		MAX	NOR		MIN	Unit
	Flow rate	14.2				m3/h
	Inlet pressure	7.96				kgf/cm2A
	Outlet pressure					kgf/cm2A
	Differential press.	1.0				kgf/cm2
	Shut-off press.		13			kgf/cm2
	Temperature	50				degC
	Density/Gravity(Liq)	881				kg/m3
	Density/Gravity(G,V)					MW
	Viscosity	8.81				cP
	Flash					%
	Calculated CV	15.56				
	Travel	71				%
	Inlet velocity	3.573				m/s
Predictive SPL	53			dBa		
				<b>Yamatake Corporation</b>		







Item No. / Qty	14	1	Ref. No.			
Tag No.	10-FV-507		Purchaser			
Service			End user			
			Project			
			Unit name			
<Control valve>	Model	HTS		<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" SV0705-001 Without by-pass cock for HTP positioner SV0101-004 Flange facing finish : Serration ANSI B16.5 (Spiral) Be noted that: 1)OLD production No. :R-09276-41-040. 2)Model HTS( Single seated valve) has been offered instead of model VZZ(VDP: double seated valve) of existing valve, which was phased out in production so many years ago. * Air regulator with 6kgf/cm2 gauge		
	Description	Top-Guided Single Seated Control Valves				
	Body/Port size (in.)	2	2			
	Conn. Size. / Rated CV		50			
	Rating / Conn. Type	ANSI300	RF			
	Body material	A216WCB				
	Trim material	SUS304 STELLITE FACE				
	Flow characteristic	EQ%				
	Bonnet	EXT-1 (230 to 450 degC)				
	Actuator / Handle	HA3D	---			
	Action	AIR TO CLOSE				
	Gland packing / Grease	P6610CH+P6528	650			
	Gasket	V543				
	Air supply / Spring range	4.0kgf/cm2	0.8-2.4kgf/cm2			
	Seat leakage	CLASS IV				
Color: Body/Diaph./Yoke	SILVER	7.5R3/12	7.5R3/12			
Paint	Standard					
<Accessories>	Positioner	HTP-1D				
	Structure					
	Input signal	0.2-1.0 kgf/cm2				
	Regulator	KZ03-2B-1N*	1			
	Regulator2					
	Limit switch					
	Action					
	Solenoid valve					
	Action / Power					
	Booster					
	Air lock valve					
	Action					
	Action					
	Action					
	<Process data>	Fluid name/Phase	PREFRACTIONATED CRUDE	LIQUID	<Piping spec.> Strength Calc. Sheet Design Press. kgf/cm2G Temp. degC Pipe Up stream Down stream Size inch Sch No. Thickness mm	
		MAX	NOR	MIN		Unit
Flow rate		42.9	39.0			m3/h
Inlet pressure		19.64				kgf/cm2A
Outlet pressure						kgf/cm2A
Differential press.		15.71				kgf/cm2
Shut-off press.			21.5			kgf/cm2
Temperature		233				degC
Density/Gravity(Liq)		980				kg/m3
Density/Gravity(G,V)						Air=1
Viscosity		200				mm2/s
Flash						%
Calculated CV		14.69				
Travel		52				%
Inlet velocity		6.072				m/s
Predictive SPL	71			dBa		
				V93-5028-00 9		
				<b>Yamatake Corporation</b>		









Item No. / Qty	19	1	Ref. No.			
Tag No.	12-FV-031		Purchaser			
Service			End user			
			Project			
			Unit name			
<Control valve>	Model	HTS		<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" SV0705-001 Without by-pass cock for HTP positioner SV0210 High shut-off pressure trim for Model HTS Be noted that: 1) The offered valve is based on the process data of production No. 416-8301-0600. 2) Offered the model HTS(single seated) instead of the old model VDP (double seated valve) which was phased out in production so many years ago. *Air regulator with 6kgf/cm2 gauge		
	Description	Top-Guided Single Seated Control Valves				
	Body/Port size (in.)	4	3			
	Conn. Size. / Rated CV		99			
	Rating / Conn. Type	ANSI300	RF			
	Body material	A216WCB				
	Trim material	SUS316				
	Flow characteristic	EQ%				
	Bonnet	PLAIN (-17 to 230 degC)				
	Actuator / Handle	HA4D	---			
	Action	AIR TO CLOSE				
	Gland packing / Grease	NP4519				
	Gasket	V543				
	Air supply / Spring range	4.0kgf/cm2	0.8-2.4kgf/cm2			
	Seat leakage	CLASS IV				
	Color: Body/Diaph./Yoke	SILVER	7.5R3/12 7.5R3/12			
	Paint	Standard				
<Accessories>	Positioner	HTP-1D				
	Structure					
	Input signal	0.2-1.0 kgf/cm2				
	Regulator	KZ03-2B-1C	1			
	Regulator2					
	Limit switch					
	Action					
	Solenoid valve					
	Action / Power					
	Booster					
	Air lock valve					
	Action					
	<Process data>	Fluid name/Phase	HC	LIQUID	<Piping spec.> Strength Calc. Sheet Design Press. kPaG Temp. degC Pipe Up stream Down stream Size inch Sch No. Thickness mm	
		MAX	NOR	MIN		Unit
Flow rate		111				m3/h
Inlet pressure		21.70				kgf/cm2A
Outlet pressure						kgf/cm2A
Differential press.		1.80				kgf/cm2
Shut-off press.			24.0			kgf/cm2
Temperature		225				degC
Density/Gravity(Liq)		0.569				water=1
Density/Gravity(G,V)						MW
Viscosity		0.11				cP
Flash						%
Calculated CV		72.85				
Travel		76				%
Inlet velocity		3.928				m/s
Predictive SPL		67				dBA
				V93-5028-00 12		
				<b>Yamatake Corporation</b>		







Item No. / Qty	23	1	Ref. No.		
Tag No.	12-HV-006		Purchaser		
Service			End user		
			Project		
			Unit name		
<Control valve>	Model	HTS		<Remarks>	
	Description	Top-Guided Single Seated Control Valves			
	Body/Port size (in.)	4	3	SV0201-003 Seat leakage: Less than 0.01%CV (Equivalent IEC, JIS Class IV)	
	Conn. Size. / Rated CV		99	SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap	
	Rating / Conn. Type	ANSI600	RF		
	Body material	A216WCB		SV0003-001 Valve size indication: ' '	
	Trim material	SUS316 STELLITE		SV0601-001 Air piping Connection: 1/4 NPT	
	Flow characteristic	EQ%		SV0703-105 Indicating unit : "kgf/cm2"	
	Bonnet	PLAIN (-17 to 230 degC)		SV0210 High shut-off pressure trim for Model HTS	
	Actuator / Handle	VP5	SIDE	SV0604-004 Air-fail-Close system without tank	
	Action	AIR TO OPEN		Be noted that:	
	Gland packing / Grease	NP4519	---	1) The offered valve is based on the process data of production No. 416-8301-4310.	
	Gasket	V543			
	Air supply / Spring range	5.0kgf/cm2	---	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.	
	Seat leakage	CLASS IV			
Color: Body/Diaph./Yoke	7.5R3/12	7.5R3/12	7.5R3/12	3) A volume tank of the existing valve shall be r-used for air-fail back-up system.	
Paint	Standard				
<Accessories>	Positioner	VPP03-1		*Air regulator with 10kgf/cm2 gauge	
	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				
	<Process data>	Fluid name/Phase	WATER	WATER	<Piping spec.>
		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	
				Strength Calc. Sheet	
		Design	Press.	kPaG	
		Temp.		degC	
		Pipe	Up stream	Down stream	
		Size		inch	
		Sch No.			
		Thickness		mm	
<b>Yamatake Corporation</b>					

Item No. / Qty	24	1	Ref. No.			
Tag No.	14-LV-011		Purchaser			
Service			End user			
			Project			
			Unit name			
<Control valve>	Model	HTS		<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" SV0705-001 Without by-pass cock for HTP positioner SV0210 High shut-off pressure trim for Model HTS Be noted that: 1)OLD production No. :416-8303-3400 2)Model HCB( cage type) has been offered instead of model VZZ(VDP: double seated valve) of existing valve, which was phased out in production so many years ago. * Air regulator wit4kgf/cm2 gauge		
	Description	Top-Guided Single Seated Control Valves				
	Body/Port size (in.)	2	2			
	Conn. Size. / Rated CV		44			
	Rating / Conn. Type	ANSI300	RF			
	Body material	A216WCB				
	Trim material	SUS316 STELLITE				
	Flow characteristic	EQ%				
	Bonnet	PLAIN (-17 to 230 degC)				
	Actuator / Handle	HA4R	---			
	Action	AIR TO OPEN				
	Gland packing / Grease	NP4519	650			
	Gasket	V543				
	Air supply / Spring range	2.8kgf/cm2	0.8-2.4kgf/cm2			
	Seat leakage	CLASS IV				
Color: Body/Diaph./Yoke	SILVER	2.5Y8/12 2.5Y8/12				
Paint	Standard					
<Accessories>	Positioner	HTP-1D				
	Structure					
	Input signal	0.2-1.0 kgf/cm2				
	Regulator	KZ03-2B-1B*	1			
	Regulator2					
	Limit switch					
	Action					
	Solenoid valve					
	Action / Power					
	Booster					
	Air lock valve					
	Action					
Action						
Action						
V93-5028-00 17						
<Process data>	Fluid name/Phase	LPG	LIQUID	<Piping spec.> Strength Calc. Sheet Design Press. kgf/cm2G Temp. degC Pipe Up stream Down stream Size inch Sch No. Thickness mm		
		MAX	NOR		MIN	Unit
	Flow rate	70	39.0			m3/h
	Inlet pressure	14.5				kgf/cm2A
	Outlet pressure					kgf/cm2A
	Differential press.	4.5				kgf/cm2
	Shut-off press.		37			kgf/cm2
	Temperature	25				degC
	Density/Gravity(Liq)	0.538				water=1
	Density/Gravity(G,V)					Air=1
	Viscosity	0.45				cP
	Flash					%
	Calculated CV	28.26				
	Travel	72				%
	Inlet velocity	9.908				m/s
Predictive SPL	66			dBA		
				<b>Yamatake Corporation</b>		

Item No. / Qty	25	1	Ref. No.		
Tag No.	14-PV-006		Purchaser		
Service			End user		
			Project		
			Unit name		
<Control valve>	Model	HTS		<Remarks>	
	Description	Top-Guided Single Seated Control Valves		SV0201-003 Seat leakage: Less than 0.01%CV (Equivalent IEC, JIS Class IV)	
	Body/Port size (in.)	2	2		
	Conn. Size. / Rated CV		44	SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap	
	Rating / Conn. Type	ANSI300	RF		
	Body material	A216WCB		SV0003-001 Valve size indication: ' ' ' '	
	Trim material	SUS316		SV0601-001 Air piping Connection: 1/4 NPT	
	Flow characteristic	EQ%		SV0703-105 Indicating unit : "kgf/cm2"	
	Bonnet	PLAIN (-17 to 230 degC)		SV0705-001 Without by-pass cock for HTP positioner	
	Actuator / Handle	HA4R	---	SV0210 High shut-off pressure trim for Model HTS	
	Action	AIR TO OPEN		Be noted that:	
	Gland packing / Grease	NP4519		1) The offered valve is based on the process data of production No. 416-8303-1800.	
	Gasket	V543			
	Air supply / Spring range	2.8kgf/cm2	0.8-2.4kgf/cm2	2) Offered the model HTS(single seated) instead of the old model VDP (double seated valve) which was phased out in production so many years ago.	
	Seat leakage	CLASS IV			
	Color: Body/Diaph./Yoke	SILVER	7.5R3/12	7.5R3/12	
Paint	Standard		*Air regulator with 4kgf/cm2 gauge		
<Accessories>	Positioner	HTP-1D		V93-5028-00 18	
	Structure				
	Input signal	0.2-1.0 kgf/cm2			
	Regulator	KZ03-2B-1B*	1		
	Regulator2				
	Limit switch				
	Action				
	Solenoid valve				
	Action / Power				
	Booster				
	Air lock valve				
	Action				
<Process data>	Fluid name/Phase	HC LIQUID	LIQUID	<Piping spec.>	
		MAX	NOR	MIN	Unit
	Flow rate	64			m3/h
	Inlet pressure	14.5			kgf/cm2A
	Outlet pressure				kgf/cm2A
	Differential press.	4.5			kgf/cm2
	Shut-off press.		33.5		kgf/cm2
	Temperature	40			degC
	Density/Gravity(Liq)	547			kg/m3
	Density/Gravity(G,V)				MW
	Viscosity	0.11			cP
	Flash				%
	Calculated CV	26.05			
	Travel	71			%
	Inlet velocity	9.059			m/s
	Predictive SPL	65			dBA
	Strength Calc. Sheet				
	Design	Press.			kPaG
	Temp.			degC	
Pipe	Up stream				
	Down stream				
	Size			inch	
	Sch No.				
Thickness				mm	
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Item No. / Qty		26		1		Ref. No.				
Tag No.		14-PV-002				Purchaser				
Service						End user				
						Project				
						Unit name				
<b>&lt;Control valve&gt;</b>	Model		HCB			<b>&lt;Remarks&gt;</b>				
	Description		Pressure Balanced Cage Type Control Valves			SV0201-002 Seat leakage: Less than 0.1%CV (Equivalent IEC, JI Class III)				
	Body/Port size (in.)		1-1/2		1-1/2					
	Conn. Size. / Rated CV				36		SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap			
	Rating / Conn. Type		ANSI300		RF					
	Body material		A216WCB			SV0003-001 Valve size indication: ' ' '				
	Trim material		SCS24			SV0601-001 Air piping Connection: 1/4 NPT				
	Flow characteristic		EQ%			SV0703-105 Indicating unit : "kgf/cm2"				
	Bonnet		PLAIN (-17 to 230 degC)			SV0705-001 Without by-pass cock for HTP positioner				
	Actuator / Handle		HA2R		---		Be noted that:			
	Action		AIR TO OPEN			1)OLD production No. :416-8303-1300				
	Gland packing / Grease		NP4519		650		2)Model HCB( cage type) has been offered instead of model			
	Gasket		V543,V8590			VZZ(VDP: double seated valve) of exsisting valve, which was phased out in production so many years ago.				
	Air supply / Spring range		2.8kgf/cm2		0.8-2.4kgf/cm2		* Air regulator wit4kgf/cm2 gauge			
	Seat leakage		CLASS III							
Color: Body/Diaph./Yoke		SILVER		2.5Y8/12		2.5Y8/12				
Paint		Standard								
<b>&lt;Accessories&gt;</b>	Positioner		HTP-1D							
	Structure									
	Input signal		0.2-1.0 kgf/cm2							
	Regulator		KZ03-2B-1B*		1					
	Regulator2									
	Limit switch									
	Action									
	Solenoid valve									
	Action / Power									
	Booster									
	Air lock valve									
	Action									
Action										
Action										
Action										
					V93-5028-00 19					
<b>&lt;Process data&gt;</b>	Fluid name/Phase		LPG		LIQUID		<b>&lt;Piping spec.&gt;</b>			
			MAX		NOR		MIN		Unit	
	Flow rate		23.9						m3/h	
	Inlet pressure		34.3						kgf/cm2A	
	Outlet pressure								kgf/cm2A	
	Differential press.		1.5						kgf/cm2	
	Shut-off press.				46				kgf/cm2	
	Temperature		40						degC	
	Density/Gravity(Liq)		0.476						water=1	
	Density/Gravity(G,V)								Air=1	
	Viscosity		0.1						cP	
	Flash								%	
	Calculated CV		15.72							
	Travel		62						%	
	Inlet velocity		6.014						m/s	
Predictive SPL		50						dBA		
					Strength Calc. Sheet					
		Design		Press.				kgf/cm2G		
				Temp.				degC		
		Pipe		Up stream		Down stream				
		Size						inch		
		Sch No.								
		Thickness						mm		
<b>Yamatake Corporation</b>										







Item No. / Qty	30	1	Ref. No.			
Tag No.	16-HV-006		Purchaser			
Service			End user			
			Project			
			Unit name			
<Control valve>	Model	HCN		<Remarks> SV0201-002 Seat leakage: Less than 0.1%CV (Equivalent IEC, JI Class III) 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" SV0705-001 Without by-pass cock for HTP positioner Be noted that: 1) The offered valve is based on the process data of production No. 416-8305-3300. 2) Offered the model HCN(Low Noise cage type) instead of the old model VDP(double seated valve) which was phased out in production so many years ago. * Air regulator with 6kgf/cm2 gauge		
	Description	Compressible Fluid Service Low-Noise Cage Type Control				
	Body/Port size (in.)	4	4			
	Conn. Size. / Rated CV		120			
	Rating / Conn. Type	ANSI300	RF			
	Body material	A216WCB				
	Trim material	SCS14A STELLITE				
	Flow characteristic	LINEAR				
	Bonnet	EXT-1 (230 to 450 degC)				
	Actuator / Handle	HA3D	---			
	Action	AIR TO CLOSE				
	Gland packing / Grease	P6610CH+P6528	PS6			
	Gasket	V543				
	Air supply / Spring range	4.0kgf/cm2	0.8-2.4kgf/cm2			
	Seat leakage	CLASS III				
Color: Body/Diaph./Yoke	SILVER	7.5R3/12	7.5R3/12			
Paint	Standard					
<Accessories>	Positioner	HTP-1D				
	Structure					
	Input signal	0.2-1.0 kgf/cm2				
	Regulator	KZ03-2B-1C*	1			
	Regulator2					
	Limit switch					
	Action					
	Solenoid valve					
	Action / Power					
	Booster					
	Air lock valve					
	Action					
Action						
Action						
<Process data>	Fluid name/Phase	SM	STEAM	<Piping spec.> Strength Calc. Sheet Design Press. kPaG Temp. degC Pipe Up stream Down stream Size inch Sch No. Thickness mm		
		MAX	NOR		MIN	Unit
	Flow rate	10900				kg/h
	Inlet pressure	15.90				kgf/cm2A
	Outlet pressure					kgf/cm2A
	Differential press.	12.77				kgf/cm2
	Shut-off press.		18.2			kgf/cm2
	Temperature	380				degC
	Density/Gravity(Liq)					kg/m3
	Density/Gravity(G,V)	5.298				kg/m3(A)
	Viscosity	0.02264				cP
	Flash					%
	Calculated CV	74.15				
	Travel	58				%
	Outlet velocity	0.5761				Mach
Predictive SPL	90			dBa		
				V93-5028-00 23		
				<b>Yamatake Corporation</b>		





Item No. / Qty	33	3	Ref. No.			
Tag No.	20-FV-008/010/012		Purchaser			
Service			End user			
			Project			
			Unit name			
<Control valve>	Model	HCB		<Remarks> SV0201-002 Seat leakage: Less than 0.1%CV (Equivalent IEC, II Class III) 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" SV0705-001 Without by-pass cock for HTP positioner Be noted that: 1) The offered valve is based on the process data of production No. 416-8309-0400. 2) Offered the model HCB(cage type) instead of the old model VDP(double seated valve) which was phased out in production so many years ago. * Air regulator with 6kgf/cm2 gauge		
	Description	Pressure Balanced Cage Type Control Valves				
	Body/Port size (in.)	3	3			
	Conn. Size. / Rated CV		99			
	Rating / Conn. Type	ANSI300	RF			
	Body material	A216WCB				
	Trim material	SCS14A STELLITE				
	Flow characteristic	EQ%				
	Bonnet	EXT-1 (230 to 450 degC)				
	Actuator / Handle	HA2D	---			
	Action	AIR TO CLOSE				
	Gland packing / Grease	P6610CH+P6528	PS6			
	Gasket	V543				
	Air supply / Spring range	4.0kgf/cm2	0.8-2.4kgf/cm2			
	Seat leakage	CLASS III				
Color: Body/Diaph./Yoke	SILVER	7.5R3/12	7.5R3/12			
Paint	Standard					
<Accessories>	Positioner	HTP-1D				
	Structure					
	Input signal	0.2-1.0 kgf/cm2				
	Regulator	KZ03-2B-1C*	1			
	Regulator2					
	Limit switch					
	Action					
	Solenoid valve					
	Action / Power					
	Booster					
	Air lock valve					
	Action					
	Action					
	Action					
	<Process data>	Fluid name/Phase	REFRESHED LIQUIDE	LIQUID	<Piping spec.> Strength Calc. Sheet Design Press. kPaG Temp. degC Pipe Up stream Down stream Size inch Sch No. Thickness mm	
		MAX	NOR	MIN		Unit
Flow rate		106				m3/h
Inlet pressure		6.9				kgf/cm2A
Outlet pressure						kgf/cm2A
Differential press.		3.2				kgf/cm2
Shut-off press.			28			kgf/cm2
Temperature		265				degC
Density/Gravity(Liq)		705				kg/m3
Density/Gravity(G,V)						kg/m3(A)
Viscosity		0.54				cP
Flash						%
Calculated CV		58.08				
Travel		83				%
Inlet velocity		6.668				m/s
Predictive SPL	63			dBA		
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Item No. / Qty	34			1		Ref. No.			
Tag No.	20-PV-009					Purchaser			
Service						End user			
						Project			
						Unit name			
<Control valve>	Model	HLS				<Remarks>			
	Description	Small-Port Single Seated Control Valves							
	Body/Port size (in.)	1	Cv=6.3			SV0201-003 Seat leakage: Less than 0.01%CV (Equivalent IEC, JIS Class IV)			
	Conn. Size. / Rated CV				6.3	SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap			
	Rating / Conn. Type	ANSI300		RF					
	Body material	A216WCB				SV0003-001 Valve size indication: ' ' '			
	Trim material	SUS316 STELLITE FACE				SV0601-001 Air piping Connection: 1/4 NPT			
	Flow characteristic	EQ%				SV0703-105 Indicating unit : "kgf/cm2"			
	Bonnet	EXT-1 (230 to 450 degC)				Be noted that:			
	Actuator / Handle	PSA1D				SIDE**	1)Old production No.: 416-8309-2310		
	Action	AIR TO CLOSE					2)Model HLS has been offered instead of model VSL of existing valve, which was phased out in production so many years ago.		
	Gland packing / Grease	P6610CH+P6528				PS6	* Air regulator with 4kgf/cm2 gauge		
	Gasket	V543					**A handle shall be used for minimum flow stopper function.		
	Air supply / Spring range	1.6kgf/cm2	0.2-1.0kgf/cm2						
	Seat leakage	CLASS IV							
	Color: Body/Diaph./Yoke	SILVER	7.5R3/12	7.5R3/12					
	Paint	Standard							
<Accessories>	Positioner	HTP-1D							
	Structure								
	Input signal	0.2-1.0 kgf/cm2							
	Regulator	KZ03-2B-1B*				1			
	Regulator2								
	Limit switch								
	Action								
	Solenoid valve								
	Action / Power								
	Booster								
	Air lock valve								
	Action								
	Action								
	Action								
						V93-5028-00 26			
<Process data>	Fluid name/Phase	STEAM			STEAM		<Piping spec.>		
		MAX	NOR	MIN	Unit				
	Flow rate	592			kg/h				
	Inlet pressure	16.03			kgf/cm2A				
	Outlet pressure				kgf/cm2A				
	Differential press.	7.0			kgf/cm2				
	Shut-off press.	18.2			kgf/cm2	Strength Calc. Sheet			
	Temperature	270			degC	Design	Press.	kPaG	
	Density/Gravity(Liq)				kg/m3		Temp.	degC	
	Density/Gravity(G,V)	0.8457			kg/m3(N)	Pipe	Up stream	Down stream	
	Viscosity	0.01856			cP		Size		inch
	Flash				%		Sch No.		
	Calculated CV	4.068					Thickness		mm
	Travel	88			%				
	Outlet velocity	0.1561			Mach				
	Predictive SPL	50			dBA				
							<b>Yamatake Corporation</b>		

Item No. / Qty	37	1	Ref. No.			
Tag No.	56-TV-701		Purchaser			
Service			End user			
			Project			
			Unit name			
<Control valve>	Model	HDT		<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" SV0604-001 Air-fail-Close system with 39L tank SV0101-004 Flange facing finish : Serration ANSI B16.5 (Spiral) Be noted that: 1) Old production No.: 416-8323-3000 2)Model HTD has been offered instead of model VTD of existin valve, which was phased out in production so many years ago. *Air regulator with 10kgf/cm2 gauge		
	Description	Three way Control Valve				
	Body/Port size (in.)	6				
	Conn. Size. / Rated CV		270			
	Rating / Conn. Type	ANSI150	RF			
	Body material	A216WCB				
	Trim material	SUS316				
	Flow characteristic	LINEAR				
	Bonnet	PLAIN (0 to 200 degC)				
	Actuator / Handle	DAP560	SIDE			
	Action	AIR FAIL BOTTOM CLOSE				
	Gland packing / Grease	NP4519				
	Gasket	V543				
	Air supply / Spring range	4.0kgf/cm2				
	Seat leakage	CLASS IV				
Color: Body/Diaph./Yoke	SILVER	7.5R3/12	7.5R3/12			
Paint	Standard					
<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					
	<Process data>	Fluid name/Phase	TEMPERED WATER	LIQUID	<Piping spec.> Strength Calc. Sheet Design Press. kPaG Temp. degC Pipe Up stream Down stream Size inch Sch No. Thickness mm	
		MAX	NOR	MIN		Unit
Flow rate		367				m3/h
Inlet pressure						kgf/cm2A
Outlet pressure						kgf/cm2A
Differential press.		3				kPa
Shut-off press.			4.5			kgf/cm2
Temperature		65				degC
Density/Gravity(Liq)		988				kg/m3
Density/Gravity(G,V)						MW
Viscosity		0.55				cP
Flash						%
Calculated CV						
Travel						%
Inlet velocity						m/s
Predictive SPL				dBa		
				V93-5028-03 34		
				<b>Yamatake Corporation</b>		





Item No. / Qty	40	1	Ref. No.			
Tag No.	25-PV-015B		Purchaser			
Service			End user			
			Project			
			Unit name			
<Control valve>	Model	HCB		<Remarks> SV0201-007 Seat leakage: Less than 0.5%CV (Equivalent IEC, II Class II)		
	Description	Pressure Balanced Cage Type Control Valves				
	Body/Port size (in.)	3	3	SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap		
	Conn. Size. / Rated CV		140			
	Rating / Conn. Type	ANSI150	RF	SV0003-001 Valve size indication: ' '		
	Body material	A216WCB				
	Trim material	SCS24		SV0601-001 Air piping Connection: 1/4 NPT		
	Flow characteristic	EQ%		SV0703-105 Indicating unit : "kgf/cm2"		
	Bonnet	PLAIN (-17 to 230 degC)		SV0212 Cage plug with piston ring		
	Actuator / Handle	HA2R	---	SV0705-001 Without by-pass cock for HTP positioner		
	Action	AIR TO OPEN		Be noted that:		
	Gland packing / Grease	NP4519	---	1) The offered valve is based on the process data of production No. 416-8315-0800.		
	Gasket	V543,V8590		2) Offered the model HCB(cage type) instead of the old model VDP(double seated valve) which was phased out in production so many years ago.		
	Air supply / Spring range	1.4kgf/cm2	0.2-1.0kgf/cm2			
	Seat leakage	CLASS II		* Air regulator with 4kgf/cm2 gauge		
Color: Body/Diaph./Yoke	SILVER	7.5R3/12 7.5R3/12				
Paint	Standard					
<Accessories>	Positioner	HTP-1D		V93-5028-00		
	Structure					
	Input signal	0.2-1.0 kgf/cm2				
	Regulator	KZ03-2B-1B*	1			
	Regulator2					
	Limit switch					
	Action					
	Solenoid valve					
	Action / Power					
	Booster					
	Air lock valve					
	Action					
	Action					
	Action					
	<Process data>	Fluid name/Phase	INERT GAS		GAS(FCI)	<Piping spec.>
		MAX	NOR	MIN	Unit	
Flow rate		515			m3/h(N)	
Inlet pressure		1.33			kgf/cm2A	
Outlet pressure					kgf/cm2A	
Differential press.		0.28			kgf/cm2	
Shut-off press.			3		kgf/cm2	
Temperature		5			degC	
Density/Gravity(Liq)					kg/m3	
Density/Gravity(G,V)		1.35			kg/m3(N)	
Viscosity					cP	
Flash					%	
Calculated CV		39.55				
Travel		52			%	
Outlet velocity		0.09918			Mach	
Predictive SPL	63			dBA		
Strength Calc. Sheet						
Design		Press.		kPaG		
		Temp.		degC		
Pipe		Up stream	Down stream			
		Size		inch		
		Sch No.				
		Thickness		mm		
<b>Yamatake Corporation</b>						