Control Valve Data Sheet

Item No. / Qty	1	1
Tag No.	TV-513	
Service		

Ref. No.	
Purchaser	
End user	
Project	

<Control valve>

Model	HLS		
Description	Small-Port Single Seated Control Valves		
Body/Port size	3/4 in.	Cv=1.6	
Conn. Size. / Rated CV		1.6	
Rating / Conn. Type	ANSI150	T&G(G)	
Body material	SCPL1		
Trim material	SUS316 STELLITE FACE		
Flow characteristic	EQ%		
Bonnet	EXT-1 (-45 to -17 degC)		
Actuator / Handle	PSA1R	---	
Action	AIR TO OPEN		
Gland packing / Grease	V-PTFE	---	
Gasket	V543(PTFE),V563(PTFE)		
Air supply / Spring range	2.8kgf/cm2	0.8-2.4kgf/cm2	
Seat leakage	CLASS IV		
Color: Body/Diaph./Yoke	SILVER	SILVER	SILVER
Paint	Corrosion resistant		

<Accessories>

Positioner	HTP-1D	
Structure		
Input signal	0.2-1.0 kgf/cm2	
Regulator	KZ03-2B-XX	1
Regulator2		
Limit switch		
Action		
Solenoid valve		
Action / Power		
Booster		
Air lock valve		

<Process data>

Fluid name/Phase	FREON			FLASH(FCI)
	MAX	NOR	MIN	Unit
Flow rate	500			kg/h
Inlet pressure	3.9			kgf/cm2G
Outlet pressure				kgf/cm2G
Differential press.	3.3			kgf/cm2
Shut-off press.				kgf/cm2
Temperature	-31			degC
Density/Gravity(Liq)	1.29			water=1
Density/Gravity(G,V)	86.5			MW
Viscosity				cP
Flash	13.9			%
Calculated CV	0.6605			
Travel	75			%
Inlet velocity	0.3901			m/s
Predictive SPL	50			dBA

<Remarks>

SV0703-105 Indicating unit : "kgf/cm2"

SV0601-001 Air piping Connection: 1/4 NPT

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

SV0020-210 Oil free treatment for carbon steel body and Water free treatment

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

SV0001-001 Parts material 304ss: Bolts & nuts of valve body

SV0401-003 Dust-proof bellows (Bracket and screw material: 304ss)

SV0501-200 Actuator mounting position No.2

HTP Positioner mount on the opposite position

V93-7862-00/1

Old Production No : S-315V3-41-411(1984)

<Piping spec.>

Strength Calc. Sheet		

Design		kgf/cm2G
Temp.		degC
Size		
Sch No.		
Thickness		

Azbil Corporation

Control Valve Data Sheet

Item No. / Qty	2	1
Tag No.	TV-514	
Service		

Ref. No.	
Purchaser	
End user	
Project	

<Control valve>

Model	HLS	
Description	Small-Port Single Seated Control Valves	
Body/Port size	3/4 in.	Cv=0.63
Conn. Size. / Rated CV		0.63
Rating / Conn. Type	ANSI150	T&G(G)
Body material	SCPL1	
Trim material	SUS316 STELLITE FACE	
Flow characteristic	EQ%	
Bonnet	EXT-1 (-45 to -17 degC)	
Actuator / Handle	PSA1R	---
Action	AIR TO OPEN	
Gland packing / Grease	V-PTFE	---
Gasket	V543(PTFE),V563(PTFE)	
Air supply / Spring range	2.8kgf/cm2	0.8-2.4kgf/cm2
Seat leakage	CLASS IV	
Color: Body/Diaph./Yoke	SILVER	SILVER / SILVER
Paint	Corrosion resistant	

<Accessories>

Positioner	HTP-1D	
Structure		
Input signal	0.2-1.0 kgf/cm2	
Regulator	KZ03-2B-XX	1
Regulator2		
Limit switch		
Action		
Solenoid valve		
Action / Power		
Booster		
Air lock valve		

<Process data>

Fluid name/Phase	FREON			FLASH(FCI)
	MAX	NOR	MIN	Unit
Flow rate	200			kg/h
Inlet pressure	3.9			kgf/cm2G
Outlet pressure				kgf/cm2G
Differential press.	3.3			kgf/cm2
Shut-off press.				kgf/cm2
Temperature	-31			degC
Density/Gravity(Liq)	1.29			water=1
Density/Gravity(G,V)	86.5			MW
Viscosity				cP
Flash	13.9			%
Calculated CV	0.26423			
Travel	76			%
Inlet velocity	0.1561			m/s
Predictive SPL	50			dBA

<Remarks>

SV0703-105 Indicating unit : "kgf/cm2"

SV0601-001 Air piping Connection: 1/4 NPT

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

SV0020-210 Oil free treatment for carbon steel body and Water free treatment

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

SV0001-001 Parts material 304ss: Bolts & nuts of valve body

SV0401-003 Dust-proof bellows (Bracket and screw material: 304ss)

SV0501-200 Actuator mounting position No.2

HTP Positioner mount on the opposite position

V93-7862-00/2

Old Production No : S-315V3-41-421(1984)

<Piping spec.>

Strength Calc. Sheet		

Design		kgf/cm2G
Temp.		degC
Size		
Sch No.		
Thickness		

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