

# Control Valve Data Sheet

Item No. / Qty	1	1	Ref. No.	
Tag No.	TV-513		Purchaser	
Service			End user	
<Control valve>			Project	
			<Remarks>	
Model	HLS		SV0703-105 Indicating unit : "kgf/cm2"	
Description	Small-Port Single Seated Control Valves		SV0601-001 Air piping Connection: 1/4 NPT	
Body/Port size	3/4 in.	Cv=1.6	SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap	
Conn. Size. / Rated CV			SV0020-210 Oil free treatment for carbon steel body and Water free treatment	
Rating / Conn. Type	ANSI150	T&G(G)	SV0201-003 Seat leakage: Less than 0.01%CV (Equivalent IEC, JIS Class IV)	
Body material	SCPL1		SV0001-001 Parts material 304ss: Bolts & nuts of valve body	
Trim material	SUS316 STELLITE FACE		SV0401-003 Dust-proof bellows (Bracket and screw material: 304ss)	
Flow characteristic	EQ%		SV0501-200 Actuator mounting position No.2	
Bonnet	EXT-1 (-45 to -17 degC)		V93-7862-01/3	
Actuator / Handle	HA2R	---	V93-7970-00/1	
Action	AIR TO OPEN		Old Production No : S-315V3-41-411(1984)	
Gland packing / Grease	V-PTFE	---	HART AVP SP No.5	
Gasket	V543(PTFE), V563(PTFE)		AVP mounted upside down position	
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	AVP302-CSD2B-2DYT-9			
Structure	ATEX Flameproof, 1/4 NPT, M20x1.5			
Input signal	4-20 mADC			
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
<Piping spec.>				
Strength Calc. Sheet				
Design				kgf/cm2G
Temp.				degC
Size				
Sch No.				
Thickness				
<b>Azbil Corporation</b>				

# Control Valve Data Sheet

Item No. / Qty	2	1	Ref. No.	
Tag No.	TV-514		Purchaser	
Service			End user	
<Control valve>			<Remarks>	
Model	HLS		SV0703-105 Indicating unit : "kgf/cm2"	
Description	Small-Port Single Seated Control Valves		SV0601-001 Air piping Connection: 1/4 NPT	
Body/Port size	3/4 in.	Cv=0.63	SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap	
Conn. Size. / Rated CV			SV0020-210 Oil free treatment for carbon steel body and Water free treatment	
Rating / Conn. Type	ANSI150	T&G(G)	SV0201-003 Seat leakage: Less than 0.01%CV (Equivalent IEC, JIS Class IV)	
Body material	SCPL1		SV0001-001 Parts material 304ss: Bolts & nuts of valve body	
Trim material	SUS316 STELLITE FACE		SV0401-003 Dust-proof bellows (Bracket and screw material: 304ss)	
Flow characteristic	EQ%		SV0501-200 Actuator mounting position No.2	
Bonnet	EXT-1 (-45 to -17 degC)		V93-7862-01/4	
Actuator / Handle	HA2R	---	V93-7970-00/1	
Action	AIR TO OPEN		Old Production No : S-315V3-41-421(1984)	
Gland packing / Grease	V-PTFE	---	HART AVP SP No.5	
Gasket	V543(PTFE),V563(PTFE)		AVP mounted upside down position	
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	AVP302-CSD2B-2DYT-9			
Structure	ATEX Flameproof, 1/4 NPT, M20x1.5			
Input signal	4-20 mADC			
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
<Piping spec.>				
Strength Calc. Sheet				
Design				kgf/cm2G
Temp.				degC
Size				
Sch No.				
Thickness				
<b>Azbil Corporation</b>				