

Item No./Qty	1		1		Ref. No.		
Tag No.	LV-028				Purchaser		
Service					End user	SIBUR2	
					Project/Unit		
<b>&lt;Control valve&gt;</b>					<b>&lt;Remarks&gt;</b>		
Model	HLS				SV0201-003 Seat leakage: Less than 0.01%CV (Equivalent IEC, JIS Class IV)		
Description	Small-Port Single Seated Control Valves				SV0601-001 Air piping Connection: 1/4 NPT		
Body/Port size (in.)	1/2		Cv= 1.6		SV0602-001 Air piping: Vinyl covered copper tube. Joint: Ni plated double joint.		
Conn. Size./Rated CV			1.6		SV0507 Yoke material: SCPH2		
Rating/Conn. Type	ANSI600		RF				
Body material	SCS13A						
Trim material	SUS316 STELLITE						
Flow characteristic	EQ%						
Bonnet	PLAIN (-17 to 230 degC)						
Actuator/Handle	PSA1R		SIDE				
Action	AIR TO OPEN						
Gland packing/Grease	NP4519						
Gasket	V543						
Air supply/Spring range	270kPa		80-240kPa				
Seat leakage	CLASS IV						
Color: Body/Diaph./Yoke	Non Painting	M10B5/10	M10B5/10	M10B5/10			
Paint	Standard						
<b>&lt;Accessories&gt;</b>							
Positioner	AVP301-CSD2A-1CYS-X						
Structure	ATEX Flameproof, 1/4 NPT, M20x1.5						
Input signal	4-20 mADC						
Regulator	ARU3A-03-8N-LT-G-BR		1				
Regulator2							
Limit switch							
Action							
Solenoid valve							
Action							
Power							
Booster							
Air lock valve (setting)							
<b>&lt;Process data&gt;</b>							
Fluid name/Phase	Hydrocarbons with Water			LIQUID			
	MAX	NOR	MIN	Unit			
Flow rate	1378	1148	918	kg/h			
Inlet pressure	53	53	53	kgf/cm2G	<b>&lt;Strength calc. sheet&gt;</b>		
Outlet pressure	14	14	14	kgf/cm2G	/Calc. Sheet		
Differential press.	39	39	39	kgf/cm2			
Shut-off press.	62.7			kgf/cm2			
Temperature	40	40	40	degC	<b>&lt;Piping&gt;</b>		
Density/Gravity(Liq)	1005	1005	1005	kg/m3	Design press.	6.3	MPaG
Density/Gravity(G,V)					Design temp.	40	degC
Viscosity	0.74	0.74	0.74	cSt	Size(in.) Up/Dwn	2	2
Flash					Sch No.	40	40
Calculated CV	0.2573	0.2143	0.1713		Thickness (mm)	3.9	3.9
Travel	50	45	39	%	<b>Yamatake Corporation</b>		
Inlet velocity	3.105	2.587	2.069	m/s			
Predictive SPL	60	59	59	dBA			

Item No./Qty	2		1		Ref. No.		
Tag No.	LV-013				Purchaser		
Service					End user	SIBUR2	
					Project/Unit		
<b>&lt;Control valve&gt;</b>					<b>&lt;Remarks&gt;</b>		
Model	AGVB				SV0201-003 Seat leakage: Less than 0.01%CV (Equivalent IEC, JIS Class IV)		
Description	Top-Guided Single-Seat Control Valves				SV0601-001 Air piping Connection: 1/4 NPT		
Body/Port size (in.)	2		2		SV0602-001 Air piping: Vinyl covered copper tube. Joint: Ni plated double joint.		
Conn. Size./Rated CV			50				
Rating/Conn. Type	ANSI150		RF				
Body material	SCS13A						
Trim material	SUS316 STELLITE						
Flow characteristic	EQ%						
Bonnet	PLAIN (-17 to 230 degC)						
Actuator/Handle	PSA3R		SIDE				
Action	AIR TO OPEN						
Gland packing/Grease	NP4519						
Gasket	V543(PTFE)						
Air supply/Spring range	270kPa		80-240kPa				
Seat leakage	CLASS IV						
Color: Body/Diaph./Yoke	Non Painting	M10B5/10	M10B5/10	M10B5/10			
Paint	Standard						
<b>&lt;Accessories&gt;</b>							
Positioner	AVP301-CSD2A-1CYQ-X						
Structure	ATEX Flameproof, 1/4 NPT, M20x1.5						
Input signal	4-20 mADC						
Regulator	ARU3A-03-8N-LT-G-BR		1				
Regulator2							
Limit switch							
Action							
Solenoid valve							
Action							
Power							
Booster							
Air lock valve (setting)							
<b>&lt;Process data&gt;</b>							
Fluid name/Phase	Hydrocarbons with Water			LIQUID			
	MAX	NOR	MIN	Unit			
Flow rate	879	733	586	kg/h			
Inlet pressure	13.79	13.79	13.79	kgf/cm2G	<b>&lt;Strength calc. sheet&gt;</b>		
Outlet pressure	0.3	0.3	0.3	kgf/cm2G	/Calc. Sheet		
Differential press.	13.49	13.49	13.49	kgf/cm2			
Shut-off press.	16			kgf/cm2			
Temperature	25	25	25	degC	<b>&lt;Piping&gt;</b>		
Density/Gravity(Liq)	654	654	654	kg/m3	Design press.	1.6	MPaG
Density/Gravity(G,V)				MW	Design temp.	40	degC
Viscosity	0.74	0.74	0.74	cSt	Size(in.) Up/Dwn	2	2
Flash				%	Sch No.	40	40
Calculated CV	0.3455	0.2881	0.2303		Thickness (mm)	3.9	3.9
Travel				%	<b>Yamatake Corporation</b>		
Inlet velocity	0.1902	0.1586	0.1268	m/s			
Predictive SPL	54	53	52	dBA			