

Control Valve Data Sheet

Item No. / Qty	1	1	Ref. No.	
Tag No.	FrRC-105		Purchaser	
Service			End user	
<Control valve>			<Remarks>	
Model	HAH		SV0703-105 Indicating unit : "kgf/cm2"	
Description	High Pressure Service Angle Type Control Valves		SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap	
Body/Port size	2 in.	Cv=7.0	SV0402-001 Packing follower with O-ring	
Conn. Size. / Rated CV			SV0201-003 Seat leakage: Less than 0.01%CV (Equivalent IEC, JIS Class IV)	
Rating / Conn. Type	320K	LENS RING	SV0507 Actuator yoke material: SCPH2 or WCB	
Body material	SF440A		Min Ambient Temp:Valve Body/(-)45degC, Accessories/(-)40degC	
Trim material	SUS440C			
Flow characteristic	EQ%			
Bonnet	PLAIN (0 to 200 degC)			
Actuator / Handle	HA4D	---		
Action	AIR TO CLOSE(Side to Bottom)			
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	SILVER	SILVER	
Paint	Standard			
<Accessories>				
Positioner	HTP-1D (SP0004)			
Structure				
Input signal	0.2-1.0 kgf/cm2		VOA-4754-00	
Regulator	ARU3AS-03-8N-LT-5-G-BR-G450	1	Old Production No : 415-8076-0200 (1977)	
Regulator2			Old Model No : VAH2"	
Limit switch	VCX7001L	1		
Action	Full Open on			
Solenoid valve	NFX8327B011	1		
Action / Power	En: Open, De: Control	AC100V 50Hz		
Booster				
Air lock valve				
<Process data>				
Fluid name/Phase	Liquid Ammonia		LIQUID	
	MAX	NOR	MIN	Unit
Flow rate	80	13.8		m3/h
Inlet pressure	255	255		kgf/cm2G
Outlet pressure				kgf/cm2G
Differential press.	200	200		kgf/cm2
Shut-off press.		255		kgf/cm2
Temperature	39	39		degC
Density/Gravity(Liq)	0.6	0.6		water=1
Density/Gravity(G,V)				MW
Viscosity				mPa-s
Flash	Cavitation	Cavitation		%
Calculated CV	6.011	1.171		
Travel				%
Inlet velocity	11.32	1.953		m/s
Predictive SPL	99	96		dBA
<Piping spec.>				
Strength Calc. Sheet				
Design			kgf/cm2G	
Temp.			degC	
Size	2 in.	2 in.		
Sch No.	40	40		
Thickness	3.9	3.9		
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Control Valve Data Sheet

Item No. / Qty	2	1	Ref. No.	
Tag No.	LRCA-401		Purchaser	
Service			End user	
<Control valve>			<Remarks>	
Model	HAH		SV0703-105 Indicating unit : "kgf/cm2"	
Description	High Pressure Service Angle Type Control Valves		SV0602-002 Air piping: Vinyl covered copper tube. Joint:Cr plated with vinyl cap	
Body/Port size	1-1/2 in.	Cv=7.0	SV0402-001 Packing follower with O-ring	
Conn. Size. / Rated CV			SV0201-003 Seat leakage: Less than 0.01%CV (Equivalent IEC, JIS Class IV)	
Rating / Conn. Type	320K	LENS RING	SV0507 Actuator yoke material: SCPH2 or WCB	
Body material	SUSF316L		Min Ambient Temp:Valve Body/(-)45degC, Accessories/(-)40degC	
Trim material	SUS316L STELLITE			
Flow characteristic	EQ%			
Bonnet	PLAIN (0 to 200 degC)			
Actuator / Handle	VA5D	---		
Action	AIR TO CLOSE(Side to Bottom)			
Gland packing / Grease	P6610CH+P6528	650		
Gasket	V543(SUS316L)			
Air supply / Spring range	2.6kgf/cm2	0.2-1.8kgf/cm2	TEC provided 'Special Alloy' to YAMATAKE for the original model, but we offer 'SUS316L STELLITE' this time	
Seat leakage	CLASS IV			
Color: Body/Diaph./Yoke	SILVER	SILVER	SILVER	
Paint	Standard			
<Accessories>				
Positioner	HTP-1D (SP0004)			
Structure				
Input signal	0.2-1.0 kgf/cm2		VOA-4754-00	
Regulator	ARU3AS-03-8N-LT-5-G-BR-G450	1	Old Production No : 415-8076-3400 (1977)	
Regulator2			Old Model No : VAH1-1/2"	
Limit switch	VCX7001L	1		
Action	Full Open on			
Solenoid valve	NFX8327B011	1		
Action / Power	En: Open, De: Control	AC100V 50Hz		
Booster				
Air lock valve				
<Process data>				
Fluid name/Phase	Carbamate Solution		LIQUID	
	MAX	NOR	MIN	Unit
Flow rate	57.5	15.2		t/h
Inlet pressure	255	255		kgf/cm2G
Outlet pressure				kgf/cm2G
Differential press.	200	200		kgf/cm2
Shut-off press.		255		kgf/cm2
Temperature	106	106		degC
Density/Gravity(Liq)	1.15	1.15		water=1
Density/Gravity(G,V)				MW
Viscosity	1	1		cP
Flash	Cavitation	Cavitation		%
Calculated CV	5.203	1.504		
Travel				%
Inlet velocity	12.58	3.326		m/s
Predictive SPL	101	99		dBA
<Piping spec.>				
Strength Calc. Sheet				
Design			kgf/cm2G	
Temp.			degC	
Size	3 in.	3 in.		
Sch No.	40	40		
Thickness	5.5	5.5		
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