

		Control Valve Data Sheet (Sheet 1/2)			Project / EPC: End User: End User Location:			
Quote No: 24/03190 Customer: CEA		Rev.: 1			Filled By : Date : 30/07/2024			
Item	Item				PED(2014/68/CE) Category NACE Piping diam. – Schedule Min Ambient Temperature Design Press. / Temp.		B + C2 Not required 1"/4" - Schedula 40 FV - 22 bar.g / -40/120 C	
	Quantity	2						
	TAG	LCV-0001A_B						
	Service							
	Valve Type	Globe single seat						
	Fluid/State	Propylene			Liquid			
Service Conditions	Sizing Conditions	Units	Case 1	Case 2	Case 3	#N/D	#N/D	#N/D
	Density	kg/m3	437,000	437,000	437,000			
	Viscosity	cP	0,069	0,069	0,069			
	Flow rate	kg/h	2847,000	3273,000	1139,000			
	Inlet pressure	bar.g	22,000	18,780	18,780			
	Outlet pressure	bar.g	3,860	3,860	3,860			
	DP	bar.g	18,140	14,920	14,920			
	Temperature	C	56,000	56,000	56,000			
Service Results	Remarks		Flashing is occurring;	Flashing is occurring;	Flashing is occurring;	42,94% of Flashing at control valve outlet		
	Calculated	Cv	1,955	2,997	1,043			
	Selected	Cv	3,5	3,5	3,5			
	Travel	%	56,000	86,000	30,000			
	Noise estimated at 1m	Db	84,119	68,319	59,769			
	Velocity on inlet line	m/s	3,247	3,733	1,299			
	Velocity on outlet line	m/s	0,220	0,253	0,088			
Valve Model	KA10	KA13-30-1"-AX24-A1RA			Valve Function		Control	
Body / Bonnet	Inlet/Outlet Size	1"			Positioner	Manufacturer	OMC	
	Inlet/Outlet conn.	ANSI 300 RF				Model	YT3700L-20	
	Body Material	ASME SA-352 LCC				Execution	IP66	
	Body Gasket	SS316L ARMED GRAPHITE				Enclosure	Alluminium	
	Studs	ASME SA-320 L7				Signal Input	4-20mA	
	Nuts	ASME SA-194 4				Feedback	4-20mA	
	Bonnet type	EXTENDED				Electrical connections	1/2 G	
	Bonnet Material	ASTM A350 LF2				Diagnostic	-	
	Balancing System	Not Required				Protocol	HART	
Trim	Cv	3,5			Accessories	Manufacturer	SITECNA	
	Seat Type	Threaded				Model	FR04	
	Seat material	17-4PH H900				Material	AISI 316	
	Seat size	10,0 mm				Gauge	AISI 316	
	Flow action	To Open				Pressure Range	0,4-10 bar	
	Stem Material	17-4PH H900				Manufacturer	-	
	Flow Divider	NO				Model	-	
	Flow Divider Material	-				Execution	-	
	Plug Characteristic	LIN				Material	-	
	Plug (Mat.)	17-4PH H900				Electrical & Pneumatic conn.	-	
Seal Type / Material	METALLIC/17-4PH H900			Power Supply	-			
Leakage Class	IV			Power Consumption	-			
Leakage Standard	EN60534-4 / ANSI FCI			Manufacturer	-			
Packing	Type	V-RING			Switches	Model	-	
	Material	PTFE/GRAPHITE				Execution	-	
Actuator	Actuator type	AX24				Case material	-	
	Air failure	Close				Enclosure	-	
	Stroke (mm)	20				Contacts	-	
	Actuator Signal (Psi)	3/15				Manufacturer	-	
	Shutoff pressure	*22 bar.g				Model	-	
	Spring case/Yoke	Carbon Steel				Material	-	
	Diaphragm material	NBR				System	-	
Extra	Handwheel	NO				System	-	
	Spring Action	Normally close			Material	OMC STD ST.STEEL FITTINGS		
Notes	- Safety factor: 1,6						Vmech 3.9.5	

Quote No: 24/03190		Rev.: 1		Filled By :		Date: 30/07/2024	
Customer: CEA							
Item	Item			PED (2014/68/CE) Category		B + C2	
	Quantity	2		NACE		Not required	
	TAG	LCV-0001A_B		Piping diam. - Schedule		1"/4" - Schedules 40	
	Service			Min Ambient Temperature			
	Valve Type	Globe single seat		Design Press. / Temp.		FV - 22 bar.g / -40/120 C	
	Fluid/State	Propylene		Liquid			
	Sizing Conditions	Units	Case 1	Case 2	Case 3	#N/D	#N/D
Service Results	Calculated	Cv	1,955	2,997	1,043		
	Selected	Cv	3,5	3,5	3,5		
	Travel	%	56,000	86,000	30,000		

Flow Curve

