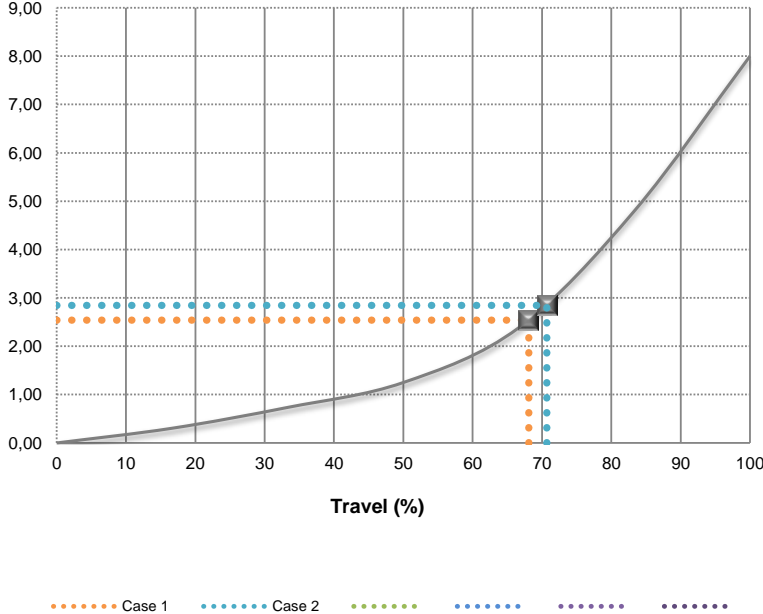
		<b>OMC Calculation Sheet</b>			Filled By Date		23/07/2024 Vmech 3.9.5	
1	Quotation No.	24/03190	Rev.		Project			
2	Customer	CEA			End User			
3	RFQ No.				Location			
4	Item	Item			PED (2014/68/CE) Category		B + C2	
5		Quantity	2		NACE		Not required	
6		Tag No.	LCV-0001A_B		Piping diam. - Schedule		1 1/4" - Schedule 80	
7		Service			Min Ambient / Medium Temp.			
8		Valve Type	Globe single seat		Design Press. / Temp.		FV - 22 bar.g / 120 C	
9		Medium / State	Propylene		Liquid			
10	Process Data		Units	Case 1	Case 2			
11		Density	kg/m3	459,732	459,732			
12		Viscosity	cP	0,063	0,063			
13		Flow rate	kg/h	2847,000	3273,000			
14		Inlet pressure	bar.g	18,780	19,000			
15		Outlet pressure	bar.g	3,880	3,700			
16		DP	bar.g	14,900	15,300			
17	Temperature	C	48,000	48,000				
18	Results and Factors	Remarks		Flashing is occurring;	Flashing is occurring;			
19		Calculated	Cv	2,540	2,845			
20		Selected	Cv	8	8			
21		Travel	%	68,0	71,0			
22		SPL @ 1m	Db	65,778	73,758			
23		Velocity on inlet line	m/s	3,709	4,264			
24		Velocity on outlet line	m/s	0,232	0,267			
25	Valve Model	KA10	KA13-30-1"-AX24-A4RA			Valve Function	Control	
26	Body / Bonnet	Inlet/Outlet Size	1"			<b>Valve Flow Coefficient Characteristic</b> 		
27		Inlet/Outlet conn.	ANSI 300 RF					
28		Body Material	ASME SA-352 LCC					
29		Body Gasket	ARMED GRAPHITE					
30		Studs	ASME SA-193 B7					
31		Nuts	ASME SA-194 2H					
32		Bonnet type	STANDARD					
33		Bonnet Material	ASTM A350 LF2					
34	Balancing System	Not Required						
35	Trim	Cv	8					
36		Seat Type	Threaded					
37		Seat material	17-4PH H900					
38		Seat size	20,0 mm					
39		Flow action	To Open					
40		Stem Material	17-4PH H900					
41		Flow Divider	NO					
42		Flow Divider Material	-					
43		Plug Characteristic	EQP					
44		Plug (Mat.)	17-4PH H900					
45	Seal Type / Material	METALLIC/17-4PH H900						
46	Leakage Class	IV						
47	Leakage Standard	EN60534-4 / ANSI FCI						
48	Packing	Type	SP200					
49		Material	PTFE/GRAPHITE					
50	Actuator	Actuator type	AX24			Remarks		
51		Air failure	Close					
52		Stroke (mm)	20					
53		Actuator Signal (Psi)	12/36					
54		Shutoff pressure	22 bar.g					
55		Spring case/Yoke	Carbon Steel					
56		Diaphragm material	NBR					
57		Handwheel	NO					
58	Spring Action	Normally close						
59	Notes							