

**KLM****Technology  
Group**Practical Engineering Guidelines  
for Processing Plant Solutions

PROJECT:

EQUIPMENT:

CONTROL VALVES

LOCATION:

REV: 0

CLIENT:

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ITEM NO	-	FEED CV	COOLR CV	OHD CV	STM CV		
TAG NUMBER	-	106-FIC-103	105-FIC-114	103-FIC-102	134-FIC-93		
QUANTITY	-	1	1	1	1		
SERVICE OR LOCATION	-	EXAMPLE 1	EXAMPLE 2	EXAMPLE 2	EXAMPLE 4		
BODY SIZE	INCH	1.5	6	1.5	2.5		
RATING	-						
PORT SIZE	INCH						
TYPE OF BODY	-	GLOBE	GLOBE	GLOBE	GLOBE		
DESIGN PRESS	KG/CM <sup>2</sup> G	6.4	4.0	12.0	967.84		
DEIGN TEMP	C	30.0	30.0	50.0	179.9		
MATERIAL OF BODY	-	CS	CS	CS	CS		
MATERIAL OF TRIM	-	CS	CS	CS	CS		
FLOW CHARACTERISTIC	-	EQUAL%	EQUAL%	EQUAL%	EQUAL%		
FAIL POSITION	-	OPEN	OPEN	OPEN	OPEN		
mA. (kg) FULL CLOSE	-						
TYPE OF ACTUATOR	-						
TYPE OF POSITIONER	-						
ACCESSORIES	-						
OPERATION CONDITION	-						
PHASE (LIQ, GAS, STM)	-	LIQ	WATER	GAS	STM		
FLUID	-	BUTANE	WATER	PROPANE	SAT'D STM		
FLOW RATE	-						
	MAX	KG/H	7200	20160	240	1045.2	
	NOR	KG/H	6000	16800	200	871	
INLET PRESS.	KG/CM <sup>2</sup> A	6.4	4.0	12.0	967.8		
DIFF. PRESS.	KG/CM <sup>2</sup>	0.7	1.5	40.0	483.9		
TEMPERATURE	C	30	30.0	50.0	179.9		
DENSITY	KG/M3	570.00	996.93	25.96	5.8		
VISCOSITY	cP	0.13	0.80				
VAPOR PRESS	KG/CM <sup>2</sup> A	282.59	0.59				
CRITICAL PRESS	KG/CM <sup>2</sup> A	550.70	3207.99				
Cp/Cv	-						
Z	-			1	1		
CALC. Cv AT NORMAL FLOW	-	11.05	2.32	2.32	7.97		
CALC. Cv AT MAX FLOW	-	13.28	2.78	2.78	9.56		
CALC. Cv AT MIN FLOW	-	5.51	1.16	1.16	3.98		
Cv SELECTED	-						
MAX. SHUT OFF dP	KG/CM <sup>2</sup>						
SEAT TIGHTNESS	-						
CALC. SOUND LEVEL	dBA						
LINE SIZE, INLET	INCH	2.0	2.0	2.0	3.0		
LINE SIZE, OUTLET	INCH	2.0	2.0	2.0	3.0		
LINE Sch. OUTLET	-						
LINE NO. INLET	-						
INSPECTION	-						
LINE CLASS	-						
P&ID NO.	-						
DATE							
PREPARED							
REVIEWED							