



INSTRUMENT  
DATA SHEET  
CONTROL VALVE

PROJECT: **780 NEI**  
SPC. No. 780-FB-3090  
DATE JUNE2023 Sh. 31 of 31

PLANT Chlorine Caustic Soda Plant

DESCRIPTION Pneumatic control valve with positioner Tag. **LV-0508502**  
SERVICE pure brine to tank D517 Q.ty 1  
LOCATION Line - 100-CW89-12139 P&ID N° 5-AM-1008.1/730

OPERATING CONDITION	Units	Min.	Op.	Max.	Des.
FLUID	PURE BRINE				
FLOW	m3/h		75	100	
UP STREAM PRESSURE	bar g		3	3	
DOWN STREAM PRESSURE	bar g		1	1	
DIFFERENTIAL PRESSURE DROP	bar		2	2	
SHUT-OFF PRESSURE	bar g		8	8	
TEMPERATURE	°C		85	85	
DENSITY	Kg/m <sup>3</sup>		1177	1177	
VISCOSITY	cPs		0.89	0.89	
CRITICAL PRESSURE	bar a		-	-	
VAPOUR PRESSURE	bar a		-	-	

REQUIRED CV

ACTUAL CV

VALVE

TYPE Plug v-port or globe  
BODY SIZE std. mfr.  
TRIM SIZE std. mfr.  
CONNECTION TYPE / RATING Flanged ,DIN PN 10  
BODY MATERIAL carbon steel PTFE lined  
BONNET std. mfr.  
PACKING BOX PTFE  
PLUG TYPE Std. Mfr.  
TRIM MATERIAL std. mfr.  
SEAT/DESK MATERIAL std. mfr.  
FLOW CHARACTERISTIC Equal %  
LEAKAGE (ANSI B16.104) VI  
FLOW DIRECTION Open

ACTUATOR

TYPE std. mfr.  
SUPPLY FAILURE Valve open  
HANDWHEEL Not required  
MECHAN. POSITION INDIC. Required

ACCESSORIES

POSITIONER Electropneumatic Smart / HART type  
FILTER REGULATOR / SUPPLY Mounted on the valve / min.4.5 - max.7.0 bar  
INPUT SIGNAL 4÷20 mA  
SOLENOID VALVE Not required  
POWER SUPPLY  
BODY/TRIM MATERIAL  
PNEUMATIC CONNECTION 1/4" NPT-F  
ELECTRICAL CONNECTION 1/2" NPT-F  
LIMIT SWITCH Not required

TYPE

REMARKS

(1)(2)(3) three different operating flow

0	Issue for order	M.MEHD.	H.KAZEMI	JUNE2023
Rev.	Description	Drawn.	Checked.	Date