



LIDCO, Pars SEE Zone, Assaluyeh,
Integrated Methanol and Ammonia
Plant 3000 MTPD MeOH / 900 MTPD NH3 PROJECT



Control Valve Data Sheets

Document No. 17735-48

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**Airpack B.V. - Air Compressor –
Integrated Methanol and Ammonia Plant
17735-COM Control Valve Data Sheets (K020)**

Repeated Comment:
To be revised based
on document content

code-2
M. Vakili

REV.	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED
02	11-03-2024	Issued for Approval	L.K.	S.K.	J.J.
01	09-11-2023	Issued for Approval	T.T.	S.K.	J.J.

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Control Valve Data Sheets

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3	X	X				28						53						78					
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6	X	X				31						56						81					
7	X	X				32						57						82					
8	X	X				33						58						83					
9	X	X				34						59						84					
10	X	X				35						60						85					
11	X	X				36						61						86					
12						37						62						87					
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19						44						69						1					
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22						47						72						4					
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Notes:

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02	LK	11-3-2024	For Approval		
01	SK	9-11-2023	For Approval	Sheet	3 of 11
Rev	By	Date	Description	Based on P&ID	Rev.06

GENERAL	1	Tag Number		320PCV-8201		
	2	Service		Compressor bypass (recycle) valve		
	3	P&ID No.		N278-VD-6019-PR-PID-0002		
	4	Location		Bypass		
	5	Line number		3/4"-IA-320-11-D42-N		
	6	Area classification		Safe area		
PROCESS CONDITIONS	8	Fluid	State	Air	Dry Gas	
	9	Pressure	Norm. Max.	30 bar(g)		
	10	Temperature	Norm. Max.	46 °C	60 °C	
	11	Design	Press. Temp.	39 bar(g)	75 °C	
	12	Ambient Temp.	Min. Max.	0 °C	49 °C	
	BODY	13	Type Of Body		Globe valve	
14		Body Size		3/4" ANSI RF		
15		Conn. Type	End Conn. Rat.	RF	300#	
16		Flange face finish		VTA		
17		Body Material		SS316		
18		Packing Material		PTFE		
19		Bonnet Type		Bolted, SS316		
20		Trim	Form	Characteristics	Disc	VTA
21			Seat Mat.	Cage mat.	PTFE	VTA
22			Disc Mat.	Shaft Mat.	SS 316	SS316
POSITIONER	23	Required Seat Tightness		IV		
	24	Max. Allow. Se		85		
	25	Positioner con		Electro-pneumatic (I/P)		
	26	Interface		4 -20 mA , HART		
	27	Supply / outp		Yes, SS316		
	28	Positioner ma		SS316		
ACTUATOR	29	Enclosure clas		IP65		
	30					
	31	Fail Position		FO (Fail Open)		
	32	Pneumatic Conn.		1/4" NPT-F		
	33	Instrument Su		Instrument Air		
	34	Instrument Supply Fluid pressure		9,5 bar(g)		
ACCESSORIES	35	Position Monitor		Yes, 24 VDC 4-20 mA Transmitter		
	36	Electric Connection		ISO M20 x 1,5		
	37	Cable Gland		Safe Area		
	38					
SERVICE	39					
	40	Filter Regulator		Yes, Stainles steel		
	41	Filter Regulator manufacturer, model		VTA VTA		
	42	Gauges		Yes, Stainles steel		
CERTIFIC	43	Tubing, Fitting		SS316 (Airpack scope)		
	44	Flow Rate		35 Nm³/h		
	45	Pressure	Inlet outlet	9,5 bar(g)	30 bar(g)	
	46	Pressure drop		To be advised by the manufacturer		
PURCHASE	47	Cv Selected		To be advised by the manufacturer		
	48	Cv required		To be advised by the manufacturer		
	51	Leakage class		Yes		
	52	Valve Manufacturer		According to approved vendor list		
NOTES :	53	Valve Model		Supplier to advise		
	54	Actuator Manufacturer		According to approved vendor list		
	55	Actuator Model		Supplier to advise		
	56	Positioner Manufacturer		According to approved vendor list		
	57	Positioner Model		Supplier to advise		

Materials should be added



As per previous comment "Instrument Supply Fluid" pressure", should be considered as per minimum Instrument air supply 4 barg for proper actuator sizing

to be corrected.

Order code to be specified and submitted after finalizing purchased instrument by sub-vendor. this comment to be consider for all applicable per case



GENERAL	1	Tag Number		320CV-8201	
	2	Service		Check Valve	
	3	P&ID No.		N278-VD-6019-PR-PID-0002	
	4	Location		Compressor Air Outlet	
	5	Line number		3/4"-IA-320-09-D42-N	
	6	Area classification		Safe area	
PROCESS CONDITIONS	7				
	8				
	9	Fluid	State	Air	Dry Gas
	10	Pressure	Norm. Max.	30 bar(g)	
	11	Temperature	Norm. Max.		60 °C
	12	Design	Press. Temp.	39 bar(g)	75 °C
	13	Ambient Temp.	Min. Max.	0 °C	49 °C
	14	Oper. Flow		35 Nm³/hr	
	15				
BODY	16				
	17				
	18				
	19				
	20	Type Of Body		Wafer type	
	21	Type Of valve		Plate type	
	21	Body Size		DN 20 (Process line = 3/4" ANSI 300# RF)	
	22	Body Material		SS316	
	23	Cracking Pressure		VTA	
	24	Inlet Connection	Outlet Conn.	RF	RF
	25	Inlet Rating	Outlet Rating	300#	300#
26					
27					
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OPTIONS	40				
	41				
	42				
	43				
	44				
CERTIFICATES	45				
	46	3.1 Material certificate		Yes	
	47				
	48				
	49				
	50				
PURCHASE	51				
	52	Manufacturer		According to approved vendor list	
	53	Model		Supplier to advise	
	54				
	55				
56					

NOTES :

				VALVE DATASHEET			
				Check Valve			
02	LK	11-3-2024	For Approval				
01	SK	9-11-2023	For Approval				
Rev	By	Date	Description				
				Sheet 9 of 11		Based on P&ID Rev.06	

GENERAL	1	Tag Number			320ST-8201	
	2	Service			Y-strainer	
	3	P&ID No.			N278-VD-6019-PR-PID-0002	
	4	Location			Compressor Air Inlet	
	5	Line number			1"-IA-320-01-D42-N	
	6	Area classification			Safe area	
	7					
	8					
PROCESS CONDITIONS	9	Fluid	State		Air	Dry Gas
	10	Pressure	Norm.	Max.	9,5 bar(g)	
	11	Temperature	Norm.	Max.	46 °C	
	12	Design	Press.	Temp.	12,5 bar(g)	75 °C
	13	Ambient Temp.	Min.	Max.	0 °C	49 °C
	14	Oper. Flow			35 Nm³/hr	
	15					
	16					
	17					
	18					
BODY	20	Type Of Body			Y-strainer	
	21	Connection			3/4" 300# RF	
	22	Body Material			SS 316	
	23	Mesh Material			SS 316	
	24	Mesh Size			0,5 mm (Supplier to advise)	
	25					
	26					
	27					
	28					
	29					
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	32					
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CERTIFICATES	47	3.1 Material certificate			Yes	
	48					
	49					
	50					
	51					
	52					
PURCHASE	53	Manufacturer			According to approved vendor list	
	54	Model			Supplier to advise	
	55					
	56					
	57					

NOTES :

GENERAL	1	Tag Number		320ST-8202	
	2	Service		Y-strainer	
	3	P&ID No.		N278-VD-6019-PR-PID-0002	
	4	Location		Cooling Water Inlet	
	5	Line number		3/4"-CWS-320-20-B24C-N	
	6	Area classification		Safe area	
	7				
	8				
PROCESS CONDITIONS	9	Fluid	State	Cooling Water	Liquid
	10	Pressure	Norm. Max.	4,5 bar(g)	
	11	Temperature	Norm. Max.	36 °C	
	12	Design	Press. Temp.	7 bar(g)	75 °C
	13	Ambient Temp.	Min. Max.	0 °C	49 °C
	14	Oper. Flow		1 Nm³/hr	
	15				
	16				
	17				
	18				
BODY	20	Type Of Body		Y-strainer	
	21	Connection		3/4" 150# RF	
	22	Body Material		Carbon steel	
	23	Mesh Material		SS 316	
	24	Mesh Size		0,5 mm (Supplier to advise)	
	25				
	26				
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	28				
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CERTIFICATES	47	3.1 Material certificate		Yes	
	48				
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	52				
PURCHASE	53	Manufacturer		According to approved vendor list	
	54	Model		Supplier to advise	
	55				
	56				
	57				
NOTES :					
				VALVE DATASHEET Y-Strainer 	
				شركة توسعه صناعات لافان Lavan Industry Development Company 	
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