

	LIDCO, Pars SEE Zone, Assaluyeh, Integrated Methanol and Ammonia Plant 3000 MTPD MeOH / 900 MTPD NH3 PROJECT						
	Valve Data Sheets						
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**Airpack B.V. - Air Compressor –
Integrated Methanol and Ammonia Plant
17735-COM Valve Data Sheets (K020)**

code-2
M. V

03	17-04-2024	Issued for Approval	L.K.	S.K.	J.J.
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.
REV.	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED

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Valve Data Sheets

Document No. 17735-48

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GENERAL	1	Tag Number		320V-8201		
	2	Service		Hand Ball valve		
	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		
	PROCESS CONDITIONS	8	Fluid	State	Air	Dry Gas
9		Pressure	Norm. Max.	9,5 bar(g)		
10		Temperature	Norm. Max.	46 °C		
11		Design	Press. Temp.	12,5 bar(g)	75 °C	
12		Ambient Temp.	Min. Max.	0 °C	49 °C	
13		Oper. Flow		35 Nm³/hr		
14						
15						
BODY	16	Body Type		Ball valve, wafer type		
	17	Body Size	Bore	1"	Full bore	
	18	Guiding	No. Of Ports	-	2	
	19	Conn. Type	End Conn. Rat.	RF	300#	
	20	Body Material		SS316		
	21	Packing Material		PTFE		
	22	Bonnet Type		Screwed		
	23	Form	Floating ball			
	24	Trim	Seat Mat.	PTFE		
	25		Ball Mat.	Shaft Mat.	SS 316	SS316
	26	Actuation	Material		Lever handle	SS316
	27	Threaded connections if applicable		Metric		
	28					
	29					
	30					
	31					
	32					
	33					
	34					
	35					
	36					
	37					
	38					
	39					
	40					
	41					
	42					
43						
OPTIONS	44	Fire safe design (acc. API 607)				
	45					
	46					
CERTIFICATES	47	3.1 Material certificate		Yes		
	48	Hydrotest certificate		Yes		
	49					
	50					
	51					
PURCHASE	52	Manufacturer		According to approved vendor list		
	53	Model		Supplier to advise		
	54					
	55					
	56					
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NOTES :

				VALVE DATASHEET		 
				Hand Ball Valve		
03	LK	17-4-2024	For Approval			
02	LK	11-3-2024	For Approval			
01	SK	9-11-2023	For Approval			
Rev	By	Date	Description			
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GENERAL	1	Tag Number		320V-8202		
	2	Service		Hand Ball valve		
	3	P&ID No.		N278-VD-6019-PR-PID-0002		
	4	Location		Compressor Air Outlet		
	5	Line number		3/4"-IA-320-10-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.		60 °C	
11		Design	Press. Temp.	39 bar(g)	75 °C	
12		Ambient Temp.	Min. Max.	0 °C	49 °C	
13		Oper. Flow		35 Nm³/hr		
14						
15						
BODY	16	Body Type		Ball valve, wafer type		
	17	Body Size	Bore	3/4"	Full bore	
	18	Guiding	No. Of Ports	-	2	
	19	Conn. Type	End Conn. Rat.	RF	300#	
	20	Body Material		SS316		
	21	Packing Material		PTFE		
	22	Bonnet Type		Screwed		
	23	Form	Floating ball			
	24	Trim	Seat Mat.	PTFE		
	25		Ball Mat.	Shaft Mat.	SS316	SS316
	26	Actuation	Material		Lever handle	SS316
	27	Threaded connections if applicable		Metric		
	28					
	29					
	30					
	31					
	32					
	33					
	34					
	35					
	36					
	37					
	38					
	39					
	40					
	41					
	42					
43						
OPTIONS	44	Fire safe design (acc. API 607)				
	45					
	46					
CERTIFICATES	47	3.1 Material certificate		Yes		
	48	Hydrotest certificate		Yes		
	49					
	50					
	51					
PURCHASE	52	Manufacturer		According to approved vendor list		
	53	Model		Supplier to advise		
	54					
	55					
	56					
	57					

NOTES :

				VALVE DATASHEET		 شركة توسعه صنایع لوان Lavan Industry Development Company
				Hand Ball Valve		
03	LK	17-4-2024	For Approval	 Sheet 5 of 11 Based on P&ID Rev.08		
02	LK	11-3-2024	For Approval			
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Rev	By	Date	Description			



GENERAL	1	Tag Number		320V-8203		
	2	Service		Hand Ball valve		
	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					
PROCESS CONDITIONS	8	Fluid	State	Cooling Water	Liquid	
	9	Pressure	Norm. Max.	4,5 bar(g)		
	10	Temperature	Norm. Max.	36 °C		
	11	Design	Press. Temp.	7 bar(g)	75 °C	
	12	Ambient Temp.	Min. Max.	0 °C	49 °C	
	13	Oper. Flow		1 m³/hr		
	14					
BODY	16	Body Type		Ball valve, wafer type		
	17	Body Size	Bore	3/4"	Full bore	
	18	Guiding	No. Of Ports	-	2	
	19	Conn. Type	End Conn. Rat.	RF	150#	
	20	Body Material		Carbon steel ASTM A 216 Gr. WCB / A105		
	21	Packing Material		PTFE		
	22	Bonnet Type		Screwed		
	23	Form	Floating ball			
	24	Trim	Seat Mat.	PTFE		
	25		Ball Mat.	Shaft Mat.	SS 316	SS316
	26	Actuation	Material		Lever handle	CS
	27	Threaded connections if applicable		Metric		
	28					
	29					
	30					
	31					
	32					
	33					
	34					
	35					
	36					
	37					
	38					
	39					
	40					
	41					
	42					
43						
OPTIONS	44			Fire safe design (acc. API 607)		
	45					
	46					
CERTIFICATES	47	3.1 Material certificate		Yes		
	48	Hydrotest certificate		Yes		
	49					
	50					
	51					
PURCHASE	52	Manufacturer		According to approved vendor list		
	53	Model		Supplier to advise		
	54					
	55					
	56					
	57					

NOTES :

				VALVE DATASHEET		شرکت توسعه صنایع لوان Lavan Industry Development Company 
				Hand Ball Valve		
03	LK	17-4-2024	For Approval			
02	LK	11-3-2024	For Approval			
01	SK	9-11-2023	For Approval			
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GENERAL	1	Tag Number		320V-8204	
	2	Service		Hand Ball valve	
	3	P&ID No.		N278-VD-6019-PR-PID-0002	
	4	Location		Cooling Water Outlet	
	5	Line number		3/4"-CWR-320-26-B24C-N	
	6	Area classification		Safe area	
	PROCESS CONDITIONS	8	Fluid	State	Cooling Water
9		Pressure	Norm. Max.	4,4 bar(g)	
10		Temperature	Norm. Max.		46 °C
11		Design	Press. Temp.	7 bar(g)	75 °C
12		Ambient Temp.	Min. Max.	0 °C	49 °C
13		Oper. Flow		1 Nm³/hr	
14					
BODY	16	Body Type		Ball valve, wafer type	
	17	Body Size	Bore	3/4"	Full bore
	18	Guiding	No. Of Ports	-	2
	19	Conn. Type	End Conn. Rat.	RF	150#
	20	Body Material		Carbon steel ASTM A 216 Gr. WCB / A105	
	21	Packing Material		PTFE	
	22	Bonnet Type		Screwed	
	23	Form		Floating ball	
	24	Trim	Seat Mat.	PTFE	
	25		Ball Mat. Shaft Mat.	SS 316	SS316
	26	Actuation	Material	Lever handle	CS
	27	Threaded connections if applicable		Metric	
	28				
	29				
	30				
	31				
32					
33					
34					
35					
36					
37					
38					
39					
40					
41					
42					
43					
OPTIONS	44			Fire safe design (acc. API 607)	
	45				
	46				
CERTIFICATES	47	3.1 Material certificate		Yes	
	48	Hydrotest certificate		Yes	
	49				
	50				
	51				
PURCHASE	52	Manufacturer		According to approved vendor list	
	53	Model		Supplier to advise	
	54				
	55				
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NOTES :

				VALVE DATASHEET		 شرکت توسعه صنایع لوات Lavan Industry Development Company
				Hand Ball Valve		
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01	SK	9-11-2023	For Approval			
Rev	By	Date	Description			

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				
	24	Max. Allow. Sound Level (dBa)				
	25	Positioner controller				
	26	Interface				
	27	Supply / output pressure gauge				
	28	Positioner material			SS316	
ACTUATOR	29	Enclosure class			IP65	
	30					
	31	Fail Position			FO (Fail Open)	
	32	Pneumatic Conn.			1/4" NPT-F	
	33	Instrument Supply Fluid			Instrument Air	
	34	Instrument Supply Fluid pressure			Min. 4 bar(g)	
	35	Position Monitor			Yes, 24 VDC 4-20 mA Transmitter	
	36	Electric Connection			ISO M20 x 1.5	
ACCESSORIES	37	Cable Gland			Yes (Airpack scope)	
	38	Actuator material			SS316	
	39					
	40	Filter Regulator			Yes, Stainles steel	
SERVICE	41	Filter Regulator manufacturer, model			VTA	VTA
	42	Gauges			Yes, Stainles steel	
	43	Tubing, Fitting			SS316 (Airpack scope)	
	44	Flow Rate			35 Nm³/h	
CERTIFICATES	45	Pressure	Inlet	outlet	9,5 bar(g)	30 bar(g)
	46	Pressure drop			To be advised by the manufacturer	
	47	Cv Selected			To be advised by the manufacturer	
	48	Cv required			To be advised by the manufacturer	
PURCHASE	49	3.1 Material certificate			Yes	
	50	Hydrotest certificate			Yes	
	51	Leakage class			Yes	
PURCHASE	52	Valve Manufacturer			According to approved vendor list	
	53	Valve Model			Supplier to advise	
	54	Actuator Manufacturer			According to approved vendor list	
	55	Actuator Model			Supplier to advise	
PURCHASE	56	Positioner Manufacturer			According to approved vendor list	
	57	Positioner Model			Supplier to advise	


- Please clarify position monitor transfer 4-20 mA(AI signal) to the DCS or as per PID document, transferred signal is Digital by one limit switch.
 - This signal is missed in all document and should be added and modified in all related document.

NOTES :

				VALVE DATASHEET		 شرکت توسعه صنعتی لوان Lavan Industry Development Company	
				Pressure Control Valve			
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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	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 Nm ³ /hr	
	15				
	16				
	17				
BODY	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				
	28				
OPTIONS	41				
	42				
	43				
	44				
	45				
CERTIFICATES	46	3.1 Material certificate		Yes	
	47				
	48				
	49				
	50				
PURCHASE	52	Manufacturer		According to approved vendor list	
	53	Model		Supplier to advise	
	54				
	55				
	56				

NOTES :

				VALVE DATASHEET	
				Check Valve	
					
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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				
	30				
	31				
	32				
	33				
	34				
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41					
42					
43					
44					
45					
46					
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 :

				VALVE DATASHEET		
				Y-Strainer		
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01	SK	9-11-2023	For Approval			
Rev	By	Date	Description			

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				
	27				
	28				
	29				
	30				
	31				
	32				
	33				
	34				
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	36				
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41					
42					
43					
44					
45					
46					
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 :

				VALVE DATASHEET Y-Strainer			
03	LK	17-4-2024	For Approval				
02	LK	11-3-2024	For Approval				
01	SK	9-11-2023	For Approval				
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