

 <p>شرکت توسعه صنایع گوارا Lavan Industry Development Company</p>	<p><b>LIDCO, Pars SEE Zone, Assaluyeh, Integrated Methanol and Ammonia Plant 3000 MTPD MeOH / 900 MTPD NH3 PROJECT</b></p>						
	<p><b>Valve Data Sheets</b></p>						
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<p>Project No.</p> <p>N278</p>	<p>Vendor Doc.</p> <p>VD</p>	<p>P.O. No.</p> <p>6019</p>	<p>Department</p> <p>IN</p>	<p>Document Type</p> <p>DS</p>	<p>Serial No</p> <p>0041</p>	<p>Revision</p> <p>06</p>	<p>Page 1 of 19</p>

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

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05	08-07-2024	Issued for Approval	L.K.	S.K.	J.J.
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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.
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<b>REV.</b>	<b>DATE</b>	<b>DESCRIPTION</b>	<b>DRAWN</b>	<b>CHECKED</b>	<b>APPROVED</b>

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Valve Data Sheets

Document No. 17735-48

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7	X	X	X	X	X	X					57					82
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**Notes:**

06	AZ	1-8-2024	For Approval	<b>VALVE DATASHEET Index</b>  	
05	LK	8-7-2024	For Approval		
04	LK	23-5-2024	For Approval		
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-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		
	7					
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					
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					
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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		Alfa valve		
	53	Model		A10N		
	54					
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**NOTES :**

06	AZ	1-8-2024	For Approval
05	LK	8-7-2024	For Approval
04	LK	23-5-2024	For Approval
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





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	
	7				
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				
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	600#
	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
	26	Actuation	Material	Lever handle	SS316
	27	Threaded connections if applicable		Metric	
	28				
	29				
	30				
	31				
	32				
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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		Alfa Valve	
	53	Model		A10N	
	54				
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**NOTES :**

06	AZ	1-8-2024	For Approval	<b>VALVE DATASHEET</b> <b>Hand Ball Valve</b> 	 شركة لوان توكو لوان لوان Industry Development Company
05	LK	8-7-2024	For Approval		
04	LK	23-5-2024	For Approval		
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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				Based on P&ID Rev.08	



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					
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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		Alfa Valve		
	53	Model		A10NF		
	54					
	55					
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	57					

**NOTES :**

06	AZ	1-8-2024	For Approval	<b>VALVE DATASHEET</b> <b>Hand Ball Valve</b> 	 شركة نوسه صنعت لوات Lavan Industry Development Company
05	LK	8-7-2024	For Approval		
04	LK	23-5-2024	For Approval		
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		
				Sheet 6 of 19	Based on P&ID Rev.08


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	Liquid
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						
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	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					
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	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		Alfa Valve		
	53	Model		A10NF		
	54					
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**NOTES :**

06	AZ	1-8-2024	For Approval	<b>VALVE DATASHEET</b> <b>Hand Ball Valve</b> 	 شرکت توسعه صنایع لوات Lavan Industry Development Company
05	LK	8-7-2024	For Approval		
04	LK	23-5-2024	For Approval		
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	Sheet 7 of 19 Based on P&ID Rev.08	

GENERAL	1	Tag Number		No tag, 4 pcs		
	2	Service		Hand Ball valve		
	3	P&ID No.		N278-VD-6019-PR-PID-0002		
	4	Location		Compressed air PGs/PTs		
	5	Line number		PG, PT block valves		
	6	Area classification		Safe area		
	7					
PROCESS CONDITIONS	8	Fluid	State	Air	Gas	
	9	Pressure	Norm. Max.	30 bar(g)		
	10	Temperature	Norm. Max.	60 °C		
	11	Design	Press. Temp.	39 bar(g)	157 °C	
	12	Ambient Temp.	Min. Max.	0 °C	49 °C	
	13	Oper. Flow		-		
	14					
BODY	16	Body Type		Ball valve		
	17	Body Size	Bore	3/4"	Full bore	
	18	Guiding	No. Of Ports	-	2	
	19	Conn. Type	End Conn. Rat.	NPT-F	300#	
	20	Body Material		SS 316		
	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		
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43						
OPTIONS	44			Fire safe design (acc. API 607)		
	45					
	46					
CERTIFICATES	47	3.1 Material certificate		Yes		
	48	Hydrotest certificate		Yes		
	49					
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	51					
PURCHASE	52	Manufacturer		Alfa Valve		
	53	Model		K20T		
	54					
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**NOTES :**

06	AZ	1-8-2024	For Approval	<b>VALVE DATASHEET</b> <b>Hand Ball Valve</b> 	Sheet 8 of 19 Based on P&ID Rev.08
05	LK	8-7-2024	For Approval		
04	LK	23-5-2024	For Approval		
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		

GENERAL	1	Tag Number		No tag, 3 pcs		
	2	Service		Hand Ball valve		
	3	P&ID No.		N278-VD-6019-PR-PID-0002		
	4	Location		2xCompressed Air, 1x Oil system		
	5	Line number		PG, PT block valves		
	6	Area classification		Safe area		
	7					
PROCESS CONDITIONS	8	Fluid	State	Air/Oil	Gas/Liquid	
	9	Pressure	Norm. Max.		2 bar(g)	
	10	Temperature	Norm. Max.	46°C	75°C	
	11	Design	Press. Temp.	12,5 bar(g)	85 °C	
	12	Ambient Temp.	Min. Max.	0 °C	49 °C	
	13	Oper. Flow		-		
	14					
BODY	16	Body Type		Ball valve		
	17	Body Size	Bore	3/4"	Full bore	
	18	Guiding	No. Of Ports	-	2	
	19	Conn. Type	End Conn. Rat.	NPT-F	300#	
	20	Body Material		SS 316		
	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					
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	32					
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	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		Alfa Valve		
	53	Model		K20T		
	54					
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	57					
<b>NOTES :</b>						
06	AZ	1-8-2024	For Approval		<b>VALVE DATASHEET</b> <b>Hand Ball Valve</b>  Sheet 9 of 19 Based on P&ID Rev.08	
05	LK	8-7-2024	For Approval			
04	LK	23-5-2024	For Approval			
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			


GENERAL	1	Tag Number		No tag, 1 pc		
	2	Service		Hand Ball valve		
	3	P&ID No.		N278-VD-6019-PR-PID-0002		
	4	Location		Cooling water system		
	5	Line number		PG-8204		
	6	Area classification		Safe area		
	PROCESS CONDITIONS	8	Fluid	State	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		-		
14						
15						
BODY	16	Body Type		Ball valve		
	17	Body Size	Bore	3/4"	Full bore	
	18	Guiding	No. Of Ports	-	2	
	19	Conn. Type	End Conn. Rat.	NPT-F	150#	
	20	Body Material		Carbon steel		
	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					
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	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		Alfa Valve		
	53	Model		K20T		
	54					
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	57					

**NOTES :**

06	AZ	1-8-2024	For Approval	<b>VALVE DATASHEET</b> <b>Hand Ball Valve</b> 	Sheet 10 of 19 Based on P&ID Rev.08
05	LK	8-7-2024	For Approval		
04	LK	23-5-2024	For Approval		
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		


GENERAL	1	Tag Number		No tag, 4 pcs		
	2	Service		Hand Ball valve		
	3	P&ID No.		N278-VD-6019-PR-PID-0002		
	4	Location		Dampener drain		
	5	Line number		Dampener KV-020-001...004		
	6	Area classification		Safe area		
	7					
PROCESS CONDITIONS	8	Fluid	State	Air	Gas	
	9	Pressure	Norm. Max.	23,3 bar(g)		
	10	Temperature	Norm. Max.	157°C		
	11	Design	Press. Temp.	39 bar(g)	175 °C	
	12	Ambient Temp.	Min. Max.	0 °C	49 °C	
	13	Oper. Flow		-		
	14					
BODY	16	Body Type		Ball valve		
	17	Body Size	Bore	1/2"	Full bore	
	18	Guiding	No. Of Ports	-	2	
	19	Conn. Type	End Conn. Rat.	NPT-F	#6000	
	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	CS
	27	Threaded connections if applicable		Metric		
	28					
	29					
	30					
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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		Alfa Valve		
	53	Model		K20T		
	54					
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**NOTES :**

06	AZ	1-8-2024	For Approval	<b>VALVE DATASHEET</b> <b>Hand Ball Valve</b> 	Sheet 11 of 19 Based on P&ID Rev.08
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04	LK	23-5-2024	For Approval		
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		


GENERAL	1	Tag Number		No tag, 1 pc		
	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	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		-		
	14					
BODY	16	Body Type		Ball valve		
	17	Body Size	Bore	1/2"	Full bore	
	18	Guiding	No. Of Ports	-	2	
	19	Conn. Type	End Conn. Rat.	NPT-F	150#	
	20	Body Material		Carbon steel		
	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		Alfa Valve		
	53	Model		K20T		
	54					
	55					
	56					
	57					

**NOTES :**

06	AZ	1-8-2024	For Approval	<b>VALVE DATASHEET</b> <b>Hand Ball Valve</b> 	Sheet 12 of 19 Based on P&ID Rev.08
05	LK	8-7-2024	For Approval		
04	LK	23-5-2024	For Approval		
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		


GENERAL	1	Tag Number		No tag, 1 pc		
	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"-CWS-320-20-B24C-N		
	6	Area classification		Safe area		
	7					
PROCESS CONDITIONS	8	Fluid	State	Water	Liquid	
	9	Pressure	Norm. Max.	4,5 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		-		
	14					
BODY	16	Body Type		Ball valve		
	17	Body Size	Bore	1/4"	Full bore	
	18	Guiding	No. Of Ports	-	2	
	19	Conn. Type	End Conn. Rat.	NPT-F	150#	
	20	Body Material		Carbon steel		
	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		Alfa Valve		
	53	Model		K20T		
	54					
	55					
	56					
	57					

**NOTES :**

06	AZ	1-8-2024	For Approval	<b>VALVE DATASHEET</b> <b>Hand Ball Valve</b> 	Sheet 13 of 19 Based on P&ID Rev.08
05	LK	8-7-2024	For Approval		
04	LK	23-5-2024	For Approval		
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		

GENERAL	1	Tag Number			No tag, 2pcs		
	2	Service			Gate valve		
	3	P&ID No.			N278-VD-6019-PR-PID-0002		
	4	Location			Cooling water sight glasses		
	5						
	6						
	7						
PROCESS CONDITIONS	8	Fluid	State		Water	Liquid	
	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/h		
	14						
BODY	15	Body Type			Gate valve type		
	16	Body Size			3/4"		
	17	Guiding	No. Of Ports		-	2	
	18	Conn. Type	End Conn. Rat.		RF	150#	
	19	Body Material			Carbon steel		
	20	Packing Material			PTFE		
	21	Bonnet Type			Screwed		
	22	Trim	Form			Solid wedge	
	23		Seat Mat.			VTA	
	24		Disc Mat.	Shaft Mat.		VTA	VTA
	25						
	26						
	27						
	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			Alfa Valve		
	53	Model			BFE		
	54						
	55						
	56						
	57						

**NOTES :**

06	AZ	1-8-2024	For Approval	<b>INSTRUMENT AND VALVE DATASHEET</b>  <b>Hand Gate Valve</b>  	Sheet 14 of 19 Based on P&ID Rev.08
05	LK	8-7-2024	For Approval		
04	LK	23-5-2024	For Approval		
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		

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		
	7						
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	
	13	Type Of Body			Globe valve		
BODY	14	Body Size			3/4" ANSI RF		
	15	Conn. Type	End Conn. Rat.		Flange	300#	
	16	Flange face finish			RF		
	17	Body Material			SS316		
	18	Packing Material			PTFE		
	19	Bonnet Type			Bolted, SS316		
	20	Trim	Form	Characteristics		Disc	Micro Flow 4 Deg 39 Min
	21		Seat Mat.	Cage mat.		CF3M SST	N/A
	22		Disc Mat.	Shaft Mat.		SS 316	SS316
	23	Required Seat Tightness			IV		
	24	Max. Allow. Sound Level (dBA)			85		
Positioner	25	Positioner controller			Electro-pneumatic (I/P)		
	26	Interface			4 -20 mA , HART		
	27	Supply / output pressure gauge			Yes, SS316		
	28	Positioner material			SS316		
	29	Enclosure class			IP65		
ACTUATOR	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, 4-20 mA Transmitter, HART		
	36	Electric Connection			ISO M20 x 1,5		
	37	Cable Gland			Yes (Airpack scope)		
	38	Actuator material			SS316		
	39						
ACCESSORIES	40	Filter Regulator			Yes, Aluminum		
	41	Filter Regulator manufacturer, model			Fisher	67CFR	
	42	Gauges			Yes, Stainles steel		
	43	Tubing, Fitting			SS316 (Airpack scope)		
SERVICE	44	Flow Rate			35 Nm³/h		
	45	Pressure	Inlet	outlet	9,5 bar(g)	30 bar(g)	
	46	Pressure drop			17,96 bar @ 41% opening		
	47	Cv Selected			0-0,3		
	48	Cv required			0,101		
CERTIFICATES	49	3.1 Material certificate			Yes		
	50	Hydrotest certificate			Yes		
	51	Leakage class			Yes		
PURCHASE	52	Valve Manufacturer			Fisher		
	53	Valve Model			NPS 3/4 GX		
	54	Actuator Manufacturer			Fisher		
	55	Actuator Model			GX/225		
	56	Positioner Manufacturer			Fisher		
					57	Positioner Model	DVC6200

**NOTES :**

06	AZ	1-8-2024	For Approval
05	LK	8-7-2024	For Approval
04	LK	23-5-2024	For Approval
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

**VALVE DATASHEET**  
 Pressure Control Valve





شركة  
 توسعه  
 صنایع  
 لوان  
 Lavan  
 Industry  
 Development  
 Company



Sheet 15 of 19  
 Based on P&ID Rev.08



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	
	7				
	8				
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 Nm³/hr	
	15				
	16				
	17				
	18				
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		0,2 bar	
	24	Inlet Connection	Outlet Conn.	RF	RF
	25	Inlet Rating	Outlet Rating	600#	600#
	26				
	27				
	28				
	29				
	30				
	31				
	32				
	33				
	34				
35					
36					
37					
38					
39					
40					
OPTIONS	41				
	42				
	43				
	44				
	45				
CERTIFICATES	46	3.1 Material certificate		Yes	
	47				
	48				
	49				
	50				
	51				
PURCHASE	52	Manufacturer		Hoerbiger	
	53	Model		RVB 19R	
	54				
	55				
	56				

**NOTES :**

06	AZ	1-8-2024	For Approval	<b>VALVE DATASHEET</b> <b>Check Valve</b> 	 Sheet 16 of 19 Based on P&ID Rev.08
05	LK	8-7-2024	For Approval		
04	LK	23-5-2024	For Approval		
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		



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		1" 300# RF	
	22	Body Material		SS 316	
	23	Mesh Material		SS 316	
	24	Mesh Size		0,57 mm	
	25				
	26				
	27				
	28				
	29				
	30				
	31				
	32				
	33				
	34				
	35				
	36				
	37				
	38				
	39				
40					
41					
42					
43					
44					
45					
46					
CERTIFICATES	47	3.1 Material certificate		Yes	
	48				
	49				
	50				
	51				
	52				
PURCHASE	53	Manufacturer		Barton Firtop	
	54	Model		A025	
	55				
	56				
	57				

**NOTES :**



06	AZ	1-8-2024	For Approval	<b>VALVE DATASHEET</b> <b>Y-Strainer</b> 	
05	LK	8-7-2024	For Approval		
04	LK	23-5-2024	For Approval		
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	Sheet 17 of 19 Based on P&ID Rev.08	

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			ASTM A216 WCB	
	23	Mesh Material			SS 316	
	24	Mesh Size			0,57 mm	
	25					
	26					
	27					
	28					
	29					
	30					
	31					
	32					
	33					
	34					
	35					
	36					
	37					
	38					
	39					
40						
41						
42						
43						
44						
45						
46						
CERTIFICATES	47	3.1 Material certificate			Yes	
	48					
	49					
	50					
	51					
	52					
PURCHASE	53	Manufacturer			Barton Firtop	
	54	Model			A020	
	55					
	56					
	57					

**NOTES :**

06	AZ	1-8-2024	For Approval	<b>VALVE DATASHEET</b> <b>Y-Strainer</b> 	 شركة توسعه صنایع لاهوت <b>Lavan</b> Industry Development Company
05	LK	8-7-2024	For Approval		
04	LK	23-5-2024	For Approval		
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	Sheet 18 of 19 Based on P&ID Rev.08	

GENERAL	1	Tag Number		SG-8201, SG-8202	
	2	Service		Sight glass	
	3	P&ID No.		N278-VD-6019-PR-PID-0002	
	4	Location		Cooling water inlet	
	5	Line number		3/4"-CWS-320-21-B24C-N	3/4"-CWS-320-23-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 m³/h	
	15				
	16				
	17				
	18				
BODY	20	Type Of Body		Sight glass	
	21	Connection		3/4" BSP-F	
	22	Body Material		SS316	
	23				
	24				
	25				
	26				
	27				
	28				
	29				
	30				
	31				
	32				
	33				
	34				
	35				
	36				
	37				
	38				
	39				
40					
41					
42					
43					
44					
45					
46					
CERTIFICATES	47	3.1 Material certificate		Yes	
	48				
	49				
	50				
	51				
	52				
PURCHASE	53	Manufacturer			
	54	Model		8 801	
	55				
	56				
	57				

06	AZ	1-8-2024	For Approval	<b>INSTRUMENT AND VALVE DATASHEET</b> Sight glass 	 Sheet 19 of 19 Based on P&ID Rev.08
05	LK	8-7-2024	For Approval		
04	LK	23-5-2024	For Approval		
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		