



Vendor	<b>ABT 360 KT/Y PP PLANT Project</b>			Owner
	Valve data sheet			 سراج گستران رجال SERAJ GOSTARAN REJAL (بهایی خانی)
	Vendor's Doc. No.: 23249-27	Rev.: 03		
	PPEC Doc. No.: L03-RE037-IN-DSH-003			

**PPEC REQ. NO. : L03-RE037-IN-DSH-003**

**ITEM NO. :**

**TOTAL PAGES : 13**

- **NO COMMENTS** : Documents/Drawings Were Checked By PPEC And Further Step Can Be Followed.
- **COMMENTED AS MARKED:** Documents/Drawings Were Checked By PPEC And Marked Comments Must Be Considered By Vendor. Vendor Shall Revise Documents/Drawing As Per Comments And The New Revision Of Documents/Drawings Must Be Revised Prior To Fabrication.
- **REJECTED:** Documents/Drawings Were Checked And It Is Not In Comply With Purchase Requisition Requirements.
- **ACCEPTABLE WITH COMMENTS:** Documents/Drawings Were Checked By PPEC And Comments Must Be Considered By Vendor. Fabrication Can Proceed Accordingly. Revised Document To Be Issued Either For Review Or As Final Certified. However PPEC Will Check The Revised Document For Proper Incorporation Of Comments.
- **NOT RETURNED:** Document Was Received For Information And Not Returned To The Vendor.



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Seq. No.:

PPEC review & comments does not absolve the vendor of the responsibility for the corrected design, manufacturing and operation of the equipment

03	22-08-2025	Issue for Engineering	L.K.	S.K.	J.J.	
02	07-07-2025	Issue for Engineering	L.K.	S.K.	J.J.	
01	12-06-2025	Issue for Engineering	L.K.	S.K.	J.J.	
00	02-05-2025	Issue for Engineering	L.K.	S.K.	J.J.	
REV.	DATE	Description	Prepared by	Checked by	Approved by	Authorized by

Vendor	ABT 360 KT/Y PP PLANT		Contractor (DEC)	Owner
	Valve data sheet			
	Vendor's Doc. No.: 2 3 2 4 9 - 2 7	Rev.: 03		
	PPEC Doc. No.: L03-RE037-IN-DSH-003			
				 سراج گستران رجال SERAJ GOSTARAN REJAL (سهایی خانی)

PAGE NO.		CHANGE INDEX DURING FORMAL ISSUE						REASON OF LATEST CHANGE
		FIRST ISSUE	SECOND ISSUE	THIRTH ISSUE	FOURTH ISSUE	FIFTH ISSUE	SIXTH ISSUE	
		REV.00	REV.01	REV.02	REV.03	REV.04	REV.05	
1		X	X	X	X			
2		X	X	X	X			
3		X	X	X	X			
4		X	X	X	X			
5		X	X	X	X			
6		X	X	X	X			
7		X	X	X	X			
8		X	X	X	X			
9		X	X	X	X			
10		X	X	X	X			
11		X	X	X	X			
12		X	X	X	X			
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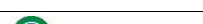
Doc. No : 23249-12

Rev. No. : 03

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11			
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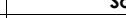
**Notes:**

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03	LK	8/21/2025	For Approval		
02	LK	7/7/2025	For Approval		
01	LK	6/12/2025	For Approval		
00	LK	5/2/2025	For Approval		Sheet 2 of 12
Rev	By	Date	Description	Based on P&ID	Rev.03

GENERAL	1	Tag Number			XY-PK6801-01	
	2	Service			Solenoid Valve	
	3	P&ID No.			23249-03	
	4	Location			Instrument air inlet	
	5	Ingress Protection			IP65	
	6					
	7					
	8					
	9					
PROCESS CONDITIONS	10	Fluid	State		Instrument air	Dry Gas
	11	Pressure	Norm.	Max.	5.5 bar(g)	
	12	Temperature	Norm.	Max.		
	13	Design	Press.	Temp.	9 bar(g)	60 °C
	14	Ambient Temp.	Min.	Max.	1 °C	55 °C
	15					
	16					
VALVE BODY	17					
	18	Type			Direct acting	
	19	Configuration			3 way 2 position	
	20	Fail position			To be used as FC (Fail-close)	
	21	Ports			1/2" NPT-F	
	22	Body Material			SS316	
	23	Seat Sealing Material			NBR	
	24					
	25					
	26					
	27					
	28					
ELECTRICAL	29					
	30					
	31					
	32					
	33	Voltage			24 VDC	
	34	Power consumption			<10W	
	35	Class of Coil Insulation			H / F	
	36	Connection			ISO M20 x 1.5	
	37	Lightning and Surge Protection			No	
	38	Cable Gland			Yes, Eex 'de' certified (Airpack scope)	
	39	Housing material			SS316	
CERTIFICATES	40	Area Classification			Zone 1, Ex'd' IIC	
	41					
	42					
	43					
	44	3.1 Material certificate			Yes	
	45	ATEX			Yes	
	46	SIL certificate	Level		No	N/A
	47	IP certificate			No	
	48					
PURCHASE	49					
	50	Manufacturer			Maxseal	
	51	Model			ICO3	
	52					
	53					
	54					

**NOTES:**

1. This solenoid valve is an universal 3/2 way, direct operated valve, also suitable for 2/2 way operation.

				INSTRUMENT AND VALVE DATASHEET		
03	LK	8/21/2025	For Approval	Solenoid Valve		
02	LK	7/7/2025	For Approval			
01	LK	6/12/2025	For Approval			
00	LK	5/2/2025	For Approval			
Rev	By	Date	Description			Sheet 3 of 12 Based on P&ID Rev.03

GENERAL	1	Tag Number		V-PK6801-01	
	2	Service		Hand Ball valve	
	3	P&ID No.		23249-03	
	4	Location		Compressor Air Inlet	
	5				
	6				
	7				
PROCESS CONDITIONS	8	Fluid	State	Mixed gas	Dry Gas
	9	Pressure	Norm. Max.	2,8...3,5 bar(g)	
	10	Temperature	Norm. Max.	0...60	
	11	Design	Press. Temp.	5 bar(g)	75 °C
	12	Ambient Temp.	Min. Max.	1 °C	55 °C
	13	Oper. Flow		1100-1200 kg/h	
	14				
BODY	15				
	16	Body Type		Ball valve, wafer type	
	17	Body Size	Bore	3"	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	
	21	Packing Material		PTFE	
	22	Bonnet Type		N/A	
	23	Trim	Form	Floating ball	
	24		Seat Mat.	PTFE	
	25		Ball Mat. Shaft Mat.	SS316	SS316
	26	Actuation	Material	Lever handle	CS
	27	Threaded connections		Metric	
	28				
	29				
	30				
	31				
	32				
	33				
	34				
	35				
	36				
	37				
38					
39					
40					
41					
42					
43					
OPTIONS	44				
	45				
	46				
CERTIFICATES	47	3.1 Material certificate		Yes	
	48	Hydrotest certificate		No	
	49				
	50				
	51				
PURCHASE	52	Manufacturer		Alfa Valvole	
	53	Model		A10NF	
	54				
	55				
	56				
	57				


**Notes:**

**Case 1:**

- 77% propylene  
 - 23% propane

**Case 2:**

- 70,2% propylene  
 - 26,2% propane  
 - 3,3% ethylene  
 - 0,3% ethane

				INSTRUMENT AND VALVE DATASHEET	
03	LK	8/21/2025	For Approval		
02	LK	7/7/2025	For Approval		
01	LK	6/12/2025	For Approval		
00	LK	5/2/2025	For Approval		
Rev	By	Date	Description	Hand Ball Valve Sheet 4 of 12 Based on P&ID Rev.03	

GENERAL	1	Tag Number		V-PK6801-02	
	2	Service		Hand Ball valve	
	3	P&ID No.		23249-03	
	4	Location		Compressor Air Outlet	
	5				
	6				
	7				
PROCESS CONDITIONS	8	Fluid	State	Mixed gas	Dry Gas
	9	Pressure	Norm. Max.	21 bar(g)	
	10	Temperature	Norm. Max.	85...97 °C	
	11	Design	Press. Temp.	30 bar(g)	120 °C
	12	Ambient Temp.	Min. Max.	1 °C	55 °C
	13	Oper. Flow		1100-1200 kg/h	
	14				
BODY	15				
	16	Body Type		Ball valve, wafer type	
	17	Body Size	Bore	2"	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	
	21	Packing Material		PTFE	
	22	Bonnet Type		N/A	
	23	Trim	Form	Floating ball	
	24		Seat Mat.	PTFE	
	25		Ball Mat.	Shaft Mat.	SS316 SS316
	26	Actuation	Material	Lever handle (note 1)	CS
	27	Threaded connections		Metric	
	28				
	29				
	30				
	31				
	32				
	33				
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42					
43					
OPTIONS	44				
	45				
	46				
CERTIFICATES	47	3.1 Material certificate		Yes	
	48	Hydrotest certificate		No	
	49				
	50				
PURCHASE	51				
	52	Manufacturer		Alfa Valvole	
	53	Model		A10NF	
	54				
	55				
	56				
	57				

**Note**


**Case 1:**

- 77% propylene  
 - 23% propane

**Case 2:**

- 70,2% propylene  
 - 26,2% propane  
 - 3,3% ethylene  
 - 0,3% ethane


**Note 1:** Lever handle to be extended version due to insulation (50mm higher)

				INSTRUMENT AND VALVE DATASHEET	
03	LK	8/21/2025	For Approval		
02	LK	7/7/2025	For Approval		
01	LK	6/12/2025	For Approval		
00	LK	5/2/2025	For Approval		
Rev	By	Date	Description	Hand Ball Valve Sheet 5 of 12 Based on P&ID Rev.03	

GENERAL	1	Tag Number		V-PK6801-05, V-PK6801-06	
	2	Service		Hand Ball valve	
	3	P&ID No.		23249-03	
	4	Location		Pulsation damper 1st stage inlet	
	5				
	6				
	7				
PROCESS CONDITIONS	8	Fluid	State	Mixed gas	Dry Gas
	9	Pressure	Norm. Max.	2,8...3,5 bar(g)	
	10	Temperature	Norm. Max.	0...60°C	
	11	Design	Press. Temp.	5 bar(g)	75 °C
	12	Ambient Temp.	Min. Max.	1 °C	55 °C
	13				
	14				
BODY	15				
	16	Body Type		Ball valve, wafer type	
	17	Body Size	Bore	1 1/2"	Full bore
	18	Guiding	No. Of Ports	-	2
	19	Conn. Type	End Conn. Rat.	RF	300#
	20	Body Material		Carbon steel ASTM A105	
	21	Packing Material		PTFE	
	22	Bonnet Type		N/A	
	23	Trim	Form	Floating ball	
	24		Seat Mat.	PTFE	
	25		Ball Mat. Shaft Mat.	SS316	SS316
	26	Actuation	Material	Lever handle	CS
	27	Threaded connections		Metric	
	28				
	29				
	30				
	31				
	32				
	33				
	34				
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	36				
	37				
	38				
	39				
40					
41					
42					
43					
OPTIONS	44	Interlock valve		Yes	
	45				
	46				
CERTIFICATES	47	3.1 Material certificate		Yes	
	48	Hydrotest certificate		No	
	49				
	50				
PURCHASE	51				
	52	Manufacturer		Alfa Valvole	
	53	Model		A10N	
	54				
	55				
	56				
	57				

**Note**  
**Case 1:**  
 - 77% propylene  
 - 23% propane


**Case 2:**  
 - 70,2% propylene  
 - 26,2% propane  
 - 3,3% ethylene  
 - 0,3% ethane

				INSTRUMENT AND VALVE DATASHEET	
				Hand Ball Valve	
					
03	LK	8/21/2025	For Approval		
02	LK	7/7/2025	For Approval		
01	LK	6/12/2025	For Approval		
00	LK	5/2/2025	For Approval	Sheet 6 of 12	
Rev	By	Date	Description	Based on P&ID Rev.03	

GENERAL	1	Tag Number		V-PK6801-07, V-PK6801-08	
	2	Service		Hand Ball valve	
	3	P&ID No.		23249-03	
	4	Location		Pulsation damper 1st stage outlet	
	5				
	6				
	7				
PROCESS CONDITIONS	8	Fluid	State	Mixed gas	Dry Gas
	9	Pressure	Norm. Max.	10.5 bar(g)	
	10	Temperature	Norm. Max.	45...99 °C	
	11	Design	Press. Temp.	16 bar(g)	120 °C
	12	Ambient Temp.	Min. Max.	1 °C	55 °C
	13				
	14				
BODY	15				
	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		Carbon steel ASTM A 105	
	21	Packing Material		PTFE	
	22	Bonnet Type		N/A	
	23	Trim	Form	Floating ball	
	24		Seat Mat.	PTFE	
	25		Ball Mat.	Shaft Mat.	SS316 SS316
	26	Actuation	Material	Lever handle	CS
	27	Threaded connections		Metric	
	28				
	29				
	30				
	31				
	32				
	33				
	34				
	35				
	36				
	37				
	38				
	39				
40					
41					
42					
43					
OPTIONS	44	Interlock valve		Yes	
	45				
	46				
CERTIFICATES	47	3.1 Material certificate		Yes	
	48	Hydrotest certificate		No	
	49				
	50				
PURCHASE	51				
	52	Manufacturer		Alfa Valvole	
	53	Model		A10N	
	54				
	55				
	56				
	57				

**Note**  
**Case 1:**  
 - 77% propylene  
 - 23% propane

**Case 2:**  
 - 70,2% propylene  
 - 26,2% propane  
 - 3,3% ethylene  
 - 0,3% ethane

				INSTRUMENT AND VALVE DATASHEET		
				Hand Ball Valve		
						
03	LK	8/21/2025	For Approval			
02	LK	7/7/2025	For Approval			
01	LK	6/12/2025	For Approval			
00	LK	5/2/2025	For Approval		Sheet 7 of 12 Based on P&ID Rev.03	
Rev	By	Date	Description			



GENERAL	1	Tag Number		V-PK6801-09, V-PK6801-10	
	2	Service		Hand Ball valve	
	3	P&ID No.		23249-03	
	4	Location		Pulsation damper 2nd stage outlet	
	5				
	6				
	7				
PROCESS CONDITIONS	8	Fluid	State	Mixed gas	Dry Gas
	9	Pressure	Norm. Max.	2,8...3,5 bar(g)	
	10	Temperature	Norm. Max.	0...60°C	
	11	Design	Press. Temp.	5 bar(g)	75 °C
	12	Ambient Temp.	Min. Max.	1 °C	55 °C
	13				
	14				
BODY	15				
	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	600#
	20	Body Material		Carbon steel ASTM A 105	
	21	Packing Material		PTFE	
	22	Bonnet Type		N/A	
	23	Trim	Form	Floating ball	
	24		Seat Mat.	PTFE	
	25		Ball Mat.	Shaft Mat.	SS316 SS316
	26	Actuation	Material	Lever handle	CS
	27	Threaded connections		Metric	
	28				
	29				
	30				
	31				
	32				
	33				
	34				
	35				
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41					
42					
43					
OPTIONS	44	Interlock valve		Yes	
	45				
	46				
CERTIFICATES	47	3.1 Material certificate		Yes	
	48	Hydrotest certificate		No	
	49				
	50				
PURCHASE	51				
	52	Manufacturer		Alfa valvole	
	53	Model		A10HP	
	54				
	55				
	56				
	57				


**Note**

**Case 1:** (1200kg/h)

- 77% propylene  
 - 23% propane


**Case 2:** (1100kg/h)

- 70,2% propylene  
 - 26,2% propane  
 - 3,3% ethylene  
 - 0,3% ethane

				INSTRUMENT AND VALVE DATASHEET	
03	LK	8/21/2025	For Approval		
02	LK	7/7/2025	For Approval		
01	LK	6/12/2025	For Approval		
00	LK	5/2/2025	For Approval		
Rev	By	Date	Description	Hand Ball Valve Sheet 8 of 12 Based on P&ID Rev.03	

GENERAL	1	Tag Number		V-PK6801-03, V-PK6801-04	
	2	Service		Globe valve	
	3	P&ID No.		23249-03	
	4	Location		Cooling water supply / return	
	5				
PROCESS CONDITIONS	8	Fluid	State	Cooling water	Liquid
	9	Pressure	Norm. Max.	6,5...8 bar(g)	
	10	Temperature	Norm. Max.	42...52 °C	
	11	Design	Press. Temp.	12 bar(g)	75°C
	12	Ambient Temp.	Min. Max.	1 °C	55 °C
	13	Oper. Flow		7 m³/hr	
BODY	15	Body Type		Globe valve type	
	16	Body Size		1 1/2"	
	17	Guiding	No. Of Ports	-	2
	18	Conn. Type	End Conn. Rat.	RF	150#
	19	Body Material		Carbon steel	
	20	Packing Material		PTFE / Graphite	
	21	Bonnet Type		Screwed / Bolted	
	22	Trim	Form	Disc	
	23		Seat Mat.	PTFE / Graphite	
	24		Disc Mat.	Shaft Mat.	SS316
	25				
	26				
	27				
	28				
	29				
	30				
	31				
	32				
33					
34					
35					
36					
37					
38					
39					
40					
41					
42					
43					
OPTIONS	44				
	45				
	46				
CERTIFICATES	47	3.1 Material certificate		Yes	
	48	Hydrotest certificate		No	
	49				
	50				
	51				
PURCHASE	52	Manufacturer		BFE	
	53	Model		N/A	
	54				
	55				
	56				
	57				


**NOTES :**

				<b>INSTRUMENT AND VALVE DATASHEET</b>	
				<b>Hand Globe Valve</b>	
03	LK	8/21/2025	For Approval		Sheet 9 of 12 Based on P&ID Rev.03
02	LK	7/7/2025	For Approval		
01	LK	6/12/2025	For Approval		
00	LK	5/2/2025	For Approval		
Rev	By	Date	Description		

GENERAL	1	Tag Number			CV-PK6801-01	
	2	Service			Check Valve	
	3	P&ID No.			23249-03	
	4	Location			Compressor outlet	
	5					
	6					
	7					
	8					
PROCESS CONDITIONS	9	Fluid	State	Mixed gas (see notes)	Dry gas	
	10	Pressure	Norm. Max.	21 bar(g)		
	11	Temperature	Norm. Max.	85 °C	97 °C	
	12	Design	Press. Temp.	30 bar(g)	120 °C	
	13	Ambient Temp.	Min. Max.	1 °C	55 °C	
	14	Oper. Flow			1100-1200 kg/h (See notes)	
	15					
	16					
	17					
	18					
BODY	20	Type Of Body			Wafer type	
	21	Type Of valve			Plate type	
	22	Body Size			DN 50 ( Process line = 2" ANSI 600# RF)	
	23	Body Material			Carbon steel	
	24	Cracking Pressure			To be stated by supplier	
	25	Inlet Connection	Outlet Conn.	RF	RF	
	26	Inlet Rating	Outlet Rating	600#	600#	
	27	Threaded connections			Metric	
	28					
	29					
	30					
	31					
	32					
	33					
	34					
OPTIONS	39					
	40					
	41					
	42					
	43					
CERTIFICATES	44	3.1 Material certificate			Yes, EN10204 type 3.1	
	45					
	46					
	47					
	48					
PURCHASE	50	Manufacturer			Hoerbiger	
	51	Model			70ED	
	52					
	53					
	54					

**Note**


<b>Case 1:</b> (1200kg/h) - 77% propylene - 23% propane	<b>Case 2:</b> (1100kg/h) - 70,2% propylene - 26,2% propane - 3,3% ethylene - 0,3% ethane
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				INSTRUMENT AND VALVE DATASHEET			
				Check Valve			
03	LK	8/21/2025	For Approval				
02	LK	7/7/2025	For Approval				
01	LK	6/12/2025	For Approval				
00	LK	5/2/2025	For Approval				
Rev	By	Date	Description			Sheet 10 of 12 Based on P&ID Rev.03	

GENERAL	1	Tag Number			Y-PK6801-01	
	2	Service			Y-strainer	
	3	P&ID No.			23249-03	
	4	Location			Compressor inlet	
	5					
	6					
	7					
	8					
PROCESS CONDITIONS	9	Fluid	State	Mixed gas	Dry gas	
	10	Pressure	Norm. Max.	2,8...3,5 bar(g)		
	11	Temperature	Norm. Max.	0...60 °C		
	12	Design	Press. Temp.	5 bar(g)	120 °C	
	13	Ambient Temp.	Min. Max.	1 °C	55 °C	
	14	Oper. Flow			1100-1200 kg/h	
	15					
	16					
	17					
	18					
BODY	20	Type Of Body			Y-strainer	
	21	Connection			3" ANSI 150# RF	
	22	Body Material			Carbon steel ASTM A 216 Gr. WCB	
	23	Mesh Material			SS316	
	24	Mesh Size			0,5 mm	
	25					
	26					
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	CERTIFICATES	44	3.1 Material certificate			Yes
45						
46						
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49						
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PURCHASE	50	Manufacturer			Ludemann	
	51	Model			02065	
	52					
	53					
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**Note**

<b>Case 1:</b> - 77% propylene - 23% propane	<b>Case 2:</b> - 70,2% propylene - 26,2% propane - 3,3% ethylene - 0,3% ethane
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				<b>INSTRUMENT AND VALVE DATASHEET</b>			
				<b>Y-Strainer</b>			
							
03	LK	8/21/2025	For Approval				
02	LK	7/7/2025	For Approval				
01	LK	6/12/2025	For Approval				
00	LK	5/2/2025	For Approval				
Rev	By	Date	Description			Sheet 11 of 12 Based on P&ID Rev.03	

GENERAL	1	Tag Number			No tag, 1pc	
	2	Service			Y-strainer	
	3	P&ID No.			23249-03	
	4	Location			Cooling water supply	
	5					
	6					
	7					
	8					
PROCESS CONDITIONS	9	Fluid	State		Cooling water	Liquid
	10	Pressure	Norm.	Max.	8 bar(g)	
	11	Temperature	Norm.	Max.	42°C	
	12	Design	Press.	Temp.	12 bar(g)	75°C
	13	Ambient Temp.	Min.	Max.	1 °C	55 °C
	14	Oper. Flow			7 m³/hr	
	15					
	16					
	17					
	18					
BODY	20	Type Of Body			Y-strainer	
	21	Connection			1 1/2" ANSI 150# RF	
	22	Body Material			Carbon steel ASTM A 216 Gr. WCB	
	23	Mesh Material			SS316	
	24	Mesh Size			0,5 mm	
	25					
	26					
	27					
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	33					
	34					
	35					
	36					
	37					
	38					
	CERTIFICATES	44	3.1 Material certificate			Yes
45						
46						
47						
48						
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50						
PURCHASE	50	Manufacturer			Ludemann	
	51	Model			02065	
	52					
	53					
	54					

**Note**

				<b>INSTRUMENT AND VALVE DATASHEET</b>			
				<b>Y-Strainer</b>			
							
03	LK	8/21/2025	For Approval				
02	LK	7/7/2025	For Approval				
01	LK	6/12/2025	For Approval				
00	LK	5/2/2025	For Approval				
Rev	By	Date	Description			Sheet 12 of 12 Based on P&ID Rev.03	