



Vendor	ABT 360 KT/Y PP PLANT Project		Owner
	Valve data sheet		
	Vendor's Doc. No.: 23249-27	Rev.: 00	
	PPEC Doc. No.: L03-RE037-IN-DSH-003		

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

ITEM NO. :

tag number shall be corrected:
XV-PK6801-01



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.

Name :	Req. No. :	Seq. No.:
Signature:		
Date :		

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

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  سراج گستران رچال SERAJ GOSTARAN REJAL (سهامی خاص)
	Valve data sheet			
	Vendor's Doc. No.: 2 3 2 4 9 - 2 7	Rev.: 00		
PPEC Doc. No.: L03-RE037-IN-DSH-003				


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							
2	X							
3	X							
4	X							
5	X							
6	X							
7	X							
8	X							
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10	Y-Strainer	No tag, 1pc	13
11			
12			
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PK-6003-V-603001
 PK-6003-V-603002
 PK-6003-V-603005, PK-6003-V-603006
 PK-6003-V-603007, PK-6003-V-603008
 PK-6003-V-603009, PK-6003-V-603010
 PK-6003-V-603003, PK-6003-V-603004
 PK-6003-CV-603001
 PK-6003-Y-603001

All tag numbers shall be start with two digit 68
 We are in unit 68 (not 60)


Notes:

				INSTRUMENT AND VALVE DATASHEET Index 		
00	LK	2-5-2025	For Approval		Sheet	2 of 13
Rev	By	Date	Description		Based on P&ID	Rev.00

GENERAL	1	Tag Number			PK-6003-XY-603001		
	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		Air	Dry Gas	
	11	Pressure	Norm.	Max.	5,5 bar(g)		
	12	Temperature	Norm.	Max.			
	13	Design	Press.	Temp.	TBA	TBA	
	14	Ambient Temp.	Min.	Max.	2 °C		48 °C
	15						
	16						
VALVE BODY	18	Type			Direct acting		
	19	Configuration			3 way 2 position		
	20	Fail position			To be used as FC (Fail-close)		
	21	Ports			3/4" NPT-F		
	22	Body Material			SS316		
	23	Seat Sealing Material			To be advised by the manufacturer		
	24						
	25						
	26						
	27						
ELECTRICAL	33	Voltage			24 VDC		
	34	Power consumption			VTA		
	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		
	40	Area Classification			Zone 1, Ex'd		
	41				Shall be Exia IICT4		
	42						
	43						
CERTIFICATES	44	3.1 Material certificate			Yes		
	45	ATEX			Yes		
	46	SIL certificate	Level		No	N/A	
	47	IP certificate			No		
	48						
PURCHASE	50	Manufacturer			According to approved vendor list		
	51	Model			Supplier to advise		
	52						
	53						
	54						

Please follow our datasheet

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			
				Solenoid Valve			
							
00	LK	2-5-2025		For Approval		Sheet	3 of 13
Rev	By	Date		Description		Based on P&ID Rev.00	

GENERAL	1	Tag Number	PK-6003-V-603001			
	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	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			
	21	Packing Material	PTFE / Graphite			
	22	Bonnet Type	Screwed / Bolted			
	23		Form	Floating ball		
	24	Trim	Seat Mat.	PTFE / Graphite		
	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	According to approved vendor list			
	53	Model	Supplier to advise			
	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
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GENERAL	1	Tag Number		PK-6003-V-603002		
	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	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		
	21	Packing Material		PTFE / Graphite		
	22	Bonnet Type		Screwed / Bolted		
	23	Form		Floating ball		
	24	Trim	Seat Mat.	PTFE / Graphite		
	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		According to approved vendor list		
	53	Model		Supplier to advise		
	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	
					
00	LK	2-5-2025	For Approval	Sheet	5 of 13
Rev	By	Date	Description	Based on P&ID Rev.00	

GENERAL	1	Tag Number		PK-6003-V-603005, PK-6003-V-603006	
	2	Service		Hand Ball valve	
	3	P&ID No.		23249-03	
	4	Location		Pulsation dampener 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	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	
	21	Packing Material		PTFE / Graphite	
	22	Bonnet Type		Screwed / Bolted	
	23	Form			Floating ball
	24	Trim	Seat Mat.		PTFE / Graphite
	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				
	51				
PURCHASE	52	Manufacturer		According to approved vendor list	
	53	Model		Supplier to advise	
	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	
					
00	LK	2-5-2025	For Approval	Sheet	6 of 13
Rev	By	Date	Description	Based on P&ID Rev.00	

GENERAL	1	Tag Number		PK-6003-V-603007, PK-6003-V-603008	
	2	Service		Hand Ball valve	
	3	P&ID No.		23249-03	
	4	Location		Pulsation dampener 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	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	
	21	Packing Material		PTFE / Graphite	
	22	Bonnet Type		Screwed / Bolted	
	23	Form		Floating ball	
	24	Trim	Seat Mat.	PTFE / Graphite	
	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				
	51				
PURCHASE	52	Manufacturer		According to approved vendor list	
	53	Model		Supplier to advise	
	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	
					
00	LK	2-5-2025	For Approval	Sheet	7 of 13
Rev	By	Date	Description	Based on P&ID Rev.00	


GENERAL	1	Tag Number		PK-6003-V-603009, PK-6003-V-603010	
	2	Service		Hand Ball valve	
	3	P&ID No.		23249-03	
	4	Location		Pulsation dampener 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	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	
	21	Packing Material		PTFE / Graphite	
	22	Bonnet Type		Screwed / Bolted	
	23		Form		Floating ball
	24	Trim	Seat Mat.		PTFE / Graphite
	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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41					
42					
43					
OPTIONS	44	Interlock valve		Yes	
	45				
	46				
CERTIFICATES	47	3.1 Material certificate		Yes	
	48	Hydrotest certificate		No	
	49				
	50				
	51				
PURCHASE	52	Manufacturer		According to approved vendor list	
	53	Model		Supplier to advise	
	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	
				Hand Ball Valve	
					
00	LK	2-5-2025	For Approval	Sheet	8 of 13
Rev	By	Date	Description	Based on P&ID Rev.00	

GENERAL	1	Tag Number		PK-6003-V-603003, PK-6003-V-603004		
	2	Service		Globe valve		
	3	P&ID No.		23249-03		
	4	Location		Cooling water supply / return		
	5					
	6					
	7					
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.	TBA	TBA	
	12	Ambient Temp.	Min. Max.	1 °C	55 °C	
	13	Oper. Flow		TBD		
	14					
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.	SS316	SS316	
	25					
	26					
	27					
	28					
	29					
	30					
	31					
	32					
	33					
	34					
	35					
	36					
	37					
	38					
39						
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41						
42						
43						
OPTIONS	44					
	45					
	46					
CERTIFICATES	47	3.1 Material certificate		Yes		
	48	Hydrotest certificate		No		
	49					
	50					
	51					
PURCHASE	52	Manufacturer		According to approved vendor list		
	53	Model		Supplier to advise		
	54					
	55					
	56					
	57					


NOTES :

				INSTRUMENT AND VALVE DATASHEET	
				Hand Globe Valve	
					
00	LK	2-5-2025	For Approval	Sheet	9 of 13
Rev	By	Date	Description	Based on P&ID	Rev.00

GENERAL	1	Tag Number			PK-6003-CV-603001	
	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					
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					
	35					
36						
37						
38						
OPTIONS	39					
	40					
	41					
	42					
	43					
CERTIFICATES	44	3.1 Material certificate			Yes, EN10204 type 3.1	
	45					
	46					
	47					
	49					
PURCHASE	50	Manufacturer			According to approved vendor list	
	51	Model			Supplier to advise	
	52					
	53					
	54					

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
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				INSTRUMENT AND VALVE DATASHEET	
				Check Valve	
					
00	LK	2-5-2025	For Approval		Sheet 10 of 13
Rev	By	Date	Description		Based on P&ID Rev.00

GENERAL	1	Tag Number			PK-6003-Y-603001	
	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					
BODY	20	Type Of Body			Y-strainer	
	21	Connection			3" ANSI 150# RF	
	22	Body Material			Carbon steel	
	23	Mesh Material			SS316	
	24	Mesh Size			0,5 mm (Supplier to advise)	
	25					
	26					
	27					
	28					
	29					
	30					
	31					
	32					
	33					
	34					
	35					
CERTIFICATES	44	3.1 Material certificate			Yes	
	45					
	46					
	47					
	48					
	49					
PURCHASE	50	Manufacturer			According to approved vendor list	
	51	Model			Supplier to advise	
	52					
	53					
	54					

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	
				Y-Strainer	
					
00	LK	2-5-2025	For Approval	Sheet	11 of 13
Rev	By	Date	Description	Based on P&ID	Rev.00

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.	TBA	TBA
	13	Ambient Temp.	Min.	Max.	1 °C	55 °C
	14	Oper. Flow			TBD	
	15					
	16					
	17					
BODY	20	Type Of Body			Y-strainer	
	21	Connection			1 1/2" ANSI 150# RF	
	22	Body Material			Carbon steel	
	23	Mesh Material			SS316	
	24	Mesh Size			0,5 mm (Supplier to advise)	
	25					
	26					
	27					
	28					
	29					
	30					
	31					
	32					
	33					
	34					
	35					
CERTIFICATES	44	3.1 Material certificate			Yes	
	45					
	46					
	47					
	48					
PURCHASE	50	Manufacturer			According to approved vendor list	
	51	Model			Supplier to advise	
	52					
	53					
	54					

Note

				INSTRUMENT AND VALVE DATASHEET	
				Y-Strainer	
					
00	LK	2-5-2025	For Approval		
Rev	By	Date	Description	Based on P&ID Rev.00	