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GN-502 84.1.0

PROJECT NO. 17E3166A

腾龙芳烃（漳州）有限公司
凝析油分离装置整改修复工程

安全阀规格书

							京鼎工程建设有限公司 CTCI Beijing Co., Ltd.	
							CERTIFIED	
							PROJ. 17E3166A	
						MGR 邵修	DATE 01.19/18	
1	ISSUED FOR INQUIRY	刘海辉	李天	雷利	01.19/18	CLIENT	DATE	
REV.	DESCRIPTION	BY	CHK.	APPR.	DATE	PAGE 1 OF 8	XH61A-1P00-601	



PRESSURE RELIEF VALVE

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京鼎工程建设有限公司
CTCI Beijing Co., Ltd.

规格书 (安全阀)

SPECIFICATION

PRESSURE RELIEF VALVE

项目编号PROJ. NO.: 17E3166A
请购书编号REQ. NO.:
规格书编号SPEC. NO.: XH61A-1P00-601
版次REV.: 1 日期DATE: 01/19/18
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概述 General	1	序号 Item No.	位号 Tag No.	1	13-PSV-103A
	2	应用场合 Service		13-E-110/111	
	3	工艺流程图号 P & ID No.		XB11A-1208-001	
	4	入口管线号 Inlet Line No.	出口管线号 Outlet Line No.	13-8"-P-01010-A53F	13-8"-P-01011-A51F
	5				
	6				
工艺条件 Process Conditions	7	工艺介质 Process Fluid	介质状态 Fluid State	凝析油	Liquid
	8	设计压力 Design Pressure	设计温度 Design Temperature	2.5 MPaG	70 ℃
	9	操作压力 Operating Pressure	操作温度 Operating Temperature	1.38 MPaG	35 ℃
	10	设定压力 Set Pressure	泄放温度 Discharge Temperature	2.1 MPaG	35 ℃
	11	Const./Variable Superimposed Back Press.	Built-up Back Press.	0.05 MPaG	0.05~0.1 MPaG
	12	操作密度 Density @Operating	分子量 Molecular Weight	723 kg/m3	---
	13	绝热指数 Cp/Cv	压缩系数 Compressibility Factor	---	---
	14	需求排放量 Required Capacity		691134 kg/h	
	15	操作粘度 Viscosity @Operating		0.0565cp	
	16	允许超压 % Allowable Overpressure %		10%	
	17	计算面积 Calculated Area	选择面积 Selected Area	*	*
	18	选用流孔代码 Orifice Designation	前置爆破片 Rupture Disc at Inlet	*	---
	19				
	20				
阀门 Valve	21	类型 Valve Type		Blanced Bellows	
	22	阀盖类型 Bonnet Type		Close	
	23	喷嘴类型 Nozzle Type		Full	
	24	入口连接 Inlet Connection		* 8" ASME B16.5 300LB RF	
	25	出口连接 Outlet Connection		* 8" ASME B16.5 150LB RF	
	26	阀体材质 Body Material		ASTM A216 GR.WCB	
	27	阀盖材质 Bonnet Material		ASTM A216 GR.WCB	
	28	弹簧材质 Spring material		316 S.S.	
	29	波纹管材质 Bellows Material		316L S.S.	
	30	阀芯材质 Trim Material		316 S.S. +Stellite	
	31	喷嘴材质 Nozzle Material		316 S.S. +Stellite	
	32	O形环材质 O-Ring Material		MFR. STD.	
	33	导向装置材质 Guide Material		316 S.S.	
	34	排放接管 Close Vent(Pipe-Away)		Yes	
	35	ASME UV标识 ASME UV Stamp		---	
	36	法规 Code Basis		ASME Section VIII	
	37	火灾及其他基准 Fire or Other Basis		Block Discharge	
	38				
附件 Accessories	39	螺纹式或螺栓式阀帽 Screwed or Bolted Cap		Screwed Cap	
	40	手柄 Lever		---	
	41	测试塞 Test Gag		Yes	
	42	蒸汽夹套 Steam Jacket		---	
	43				
其他 Others	44				
	45	制造商 Manufacturer		---	
	46	型号 Model No.		---	

注 Note:

- 1:*请厂商建议。 *:To be advised by vendor.
2:厂商须提供不锈钢永久位号铭牌。 Vendor should provide a permanently attached stainless steel name plate showing tag number.



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概述 General	1	序号 Item No.	位号 Tag No.	2	13-PSV-103B
	2	应用场合 Service		13-E-110/111	
	3	工艺流程图号 P & ID No.		XB11A-1208-001	
	4	入口管线号 Inlet Line No.	出口管线号 Outlet Line No.	13-8"-P-01014-A53F	13-8"-P-01015-A51F
	5				
	6				
工艺条件 Process Conditions	7	工艺介质 Process Fluid	介质状态 Fluid State	凝析油	Liquid
	8	设计压力 Design Pressure	设计温度 Design Temperature	2.5 MPaG	70 ℃
	9	操作压力 Operating Pressure	操作温度 Operating Temperature	1.38 MPaG	35 ℃
	10	设定压力 Set Pressure	泄放温度 Discharge Temperature	2.1 MPaG	35 ℃
	11	Const./Variable Superimposed Back Press.	Built-up Back Press.	0.05 MPaG	0.05~0.1 MPaG
	12	操作密度 Density @Operating	分子量 Molecular Weight	723 kg/m3	---
	13	绝热指数 Cp/Cv	压缩系数 Compressibility Factor	---	---
	14	需求排放量 Required Capacity		691134 kg/h	
	15	操作粘度 Viscosity @Operating		0.0565cp	
	16	允许超压 % Allowable Overpressure %		10%	
	17	计算面积 Calculated Area	选择面积 Selected Area	*	*
	18	选用流孔代码 Orifice Designation	前置爆破片 Rupture Disc at Inlet	*	---
	19				
	20				
阀门 Valve	21	类型 Valve Type		Blanced Bellows	
	22	阀盖类型 Bonnet Type		Close	
	23	喷嘴类型 Nozzle Type		Full	
	24	入口连接 Inlet Connection		* 8" ASME B16.5 300LB RF	
	25	出口连接 Outlet Connection		* 8" ASME B16.5 150LB RF	
	26	阀体材质 Body Material		ASTM A216 GR.WCB	
	27	阀盖材质 Bonnet Material		ASTM A216 GR.WCB	
	28	弹簧材质 Spring material		316 S.S.	
	29	波纹管材质 Bellows Material		316L S.S.	
	30	阀芯材质 Trim Material		316 S.S. +Stellite	
	31	喷嘴材质 Nozzle Material		316 S.S. +Stellite	
	32	O形环材质 O-Ring Material		MFR. STD.	
	33	导向装置材质 Guide Material		316 S.S.	
	34	排放接管 Close Vent(Pipe-Away)		Yes	
	35	ASME UV标识 ASME UV Stamp		---	
	36	法规 Code Basis		ASME Section VIII	
	37	火灾及其他基准 Fire or Other Basis		Block Discharge	
	38				
附件 Accessories	39	螺纹式或螺栓式阀帽 Screwed or Bolted Cap		Screwed Cap	
	40	手柄 Lever		---	
	41	测试塞 Test Gag		Yes	
	42	蒸汽夹套 Steam Jacket		---	
	43				
其他 Others	44				
	45	制造商 Manufacturer		---	
	46	型号 Model No.		---	

注 Note:

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PRESSURE RELIEF VALVE

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概述 General	1	序号 Item No.	位号 Tag No.	3	13-PSV-301A
	2	应用场合 Service		13-C-301 输出	
	3	工艺流程图号 P & ID No.		XB11A-1208-008	
	4	入口管线号 Inlet Line No.	出口管线号 Outlet Line No.	13-12"-P-08012-A5S1F	13-12"-FLG-08009-A51F
	5				
	6				
工艺条件 Process Conditions	7	工艺介质 Process Fluid	介质状态 Fluid State	(Note 3)	(Note 3)
	8	设计压力 Design Pressure	设计温度 Design Temperature	(Note 3)	(Note 3)
	9	操作压力 Operating Pressure	操作温度 Operating Temperature	(Note 3)	(Note 3)
	10	设定压力 Set Pressure	泄放温度 Discharge Temperature	(Note 3)	(Note 3)
	11	Const./Variable Superimposed Back Press.	Built-up Back Press.	(Note 3)	(Note 3)
	12	操作密度 Density @Operating	分子量 Molecular Weight	(Note 3)	(Note 3)
	13	绝热指数 Cp/Cv	压缩系数 Compressibility Factor	(Note 3)	(Note 3)
	14	需求排放量 Required Capacity		(Note 3)	
	15	操作粘度 Viscosity @Operating		(Note 3)	
	16	允许超压 % Allowable Overpressure %		10%	
	17	计算面积 Calculated Area	选择面积 Selected Area	*	*
	18	选用流孔代码 Orifice Designation	前置爆破片 Rupture Disc at Inlet	*	---
	19				
	20				
阀门 Valve	21	类型 Valve Type		Blanced Bellows	
	22	阀盖类型 Bonnet Type		Close	
	23	喷嘴类型 Nozzle Type		Full	
	24	入口连接 Inlet Connection		* 12" ASME B16.5 150LB RF	
	25	出口连接 Outlet Connection		* 12" ASME B16.5 150LB RF	
	26	阀体材质 Body Material		ASTM A216 GR.WCB	
	27	阀盖材质 Bonnet Material		ASTM A216 GR.WCB	
	28	弹簧材质 Spring material		316 S.S.	
	29	波纹管材质 Bellows Material		316L S.S.	
	30	阀芯材质 Trim Material		316 S.S. +Stellite	
	31	喷嘴材质 Nozzle Material		316 S.S. +Stellite	
	32	O形环材质 O-Ring Material		MFR. STD.	
	33	导向装置材质 Guide Material		316 S.S.	
	34	排放接管 Close Vent(Pipe-Away)		Yes	
	35	ASME UV标识 ASME UV Stamp		---	
	36	法规 Code Basis		ASME Section VIII	
	37	火灾及其他基准 Fire or Other Basis		(Note 3)	
	38				
附件 Accessories	39	螺纹式或螺栓式阀帽 Screwed or Bolted Cap		Screwed Cap	
	40	手柄 Lever		---	
	41	测试塞 Test Gag		Yes	
	42	蒸汽夹套 Steam Jacket		---	
	43				
其他 Others	44				
	45	制造商 Manufacturer		---	
	46	型号 Model No.		---	

备注见下一页



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3: 工艺数据如下:

Tag No. / P&ID No.	Location (Protected Equipment)	Relief Condition	Phase Fluid	Flow Rate	Nor. Pressure	Design Pressure	Set Pressure	Const./Variable Superimposed Back Pressure	Built-up Back Press.	Flare System / Type PSV	Accumulation %	Nor. Temp.	Design Temp.	Relief Temp.	Visc.	M.W. / Sp.Gr.	Gas Z/ Cp/Cv
13-PSV-301A XB11A-1208-008	13-C-301	Power Failure	V	250000.00	0.8	1.3	1.3	0.05	0.05~0.1	火炬	10	73.7	240	91	0.009	57.5	0.756
			LPG	kg/h	MPaG					平衡		℃			cP	-	1.23
	13-C-301	Fire	V	11858.00	0.8	1.3	1.3	0.05	0.05~0.1	火炬	21	73.7	240	99	0.009	57.5	0.724
			LPG	kg/h	MPaG					平衡		℃			cP	-	1.27
	13-C-301	Tube Rupture	V	10783.00	0.8	1.3	1.3	0.05	0.05~0.1	火炬	10	73.7	240	372.8	0.023	18	1.0
			LPG+HS	kg/h	MPaG					平衡		℃			cP	-	1.32



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概述 General	1	序号 Item No.	位号 Tag No.	4	13-PSV-301B
	2	应用场合 Service		13-C-301 输出	
	3	工艺流程图号 P & ID No.		XB11A-1208-008	
	4	入口管线号 Inlet Line No.	出口管线号 Outlet Line No.	13-12"-P-08012-A5S1F	13-12"-FLG-08009-A51F
	5				
	6				
工艺条件 Process Conditions	7	工艺介质 Process Fluid	介质状态 Fluid State	(Note 3)	(Note 3)
	8	设计压力 Design Pressure	设计温度 Design Temperature	(Note 3)	(Note 3)
	9	操作压力 Operating Pressure	操作温度 Operating Temperature	(Note 3)	(Note 3)
	10	设定压力 Set Pressure	泄放温度 Discharge Temperature	(Note 3)	(Note 3)
	11	Const./Variable Superimposed Back Press.	Built-up Back Press.	(Note 3)	(Note 3)
	12	操作密度 Density @Operating	分子量 Molecular Weight	(Note 3)	(Note 3)
	13	绝热指数 Cp/Cv	压缩系数 Compressibility Factor	(Note 3)	(Note 3)
	14	需求排放量 Required Capacity		(Note 3)	
	15	操作粘度 Viscosity @Operating		(Note 3)	
	16	允许超压 % Allowable Overpressure %		10%	
	17	计算面积 Calculated Area	选择面积 Selected Area	*	*
	18	选用流孔代码 Orifice Designation	前置爆破片 Rupture Disc at Inlet	*	---
	19				
	20				
阀门 Valve	21	类型 Valve Type		Blanced Bellows	
	22	阀盖类型 Bonnet Type		Close	
	23	喷嘴类型 Nozzle Type		Full	
	24	入口连接 Inlet Connection		* 12" ASME B16.5 150LB RF	
	25	出口连接 Outlet Connection		* 12" ASME B16.5 150LB RF	
	26	阀体材质 Body Material		ASTM A216 GR.WCB	
	27	阀盖材质 Bonnet Material		ASTM A216 GR.WCB	
	28	弹簧材质 Spring material		316 S.S.	
	29	波纹管材质 Bellows Material		316L S.S.	
	30	阀芯材质 Trim Material		316 S.S. +Stellite	
	31	喷嘴材质 Nozzle Material		316 S.S. +Stellite	
	32	O形环材质 O-Ring Material		MFR. STD.	
	33	导向装置材质 Guide Material		316 S.S.	
	34	排放接管 Close Vent(Pipe-Away)		Yes	
	35	ASME UV标识 ASME UV Stamp		---	
	36	法规 Code Basis		ASME Section VIII	
	37	火灾及其他基准 Fire or Other Basis		(Note 3)	
	38				
附件 Accessories	39	螺纹式或螺栓式阀帽 Screwed or Bolted Cap		Screwed Cap	
	40	手柄 Lever		---	
	41	测试塞 Test Gag		Yes	
	42	蒸汽夹套 Steam Jacket		---	
	43				
其他 Others	44				
	45	制造商 Manufacturer		---	
	46	型号 Model No.		---	

备注见下一页

注 Note:

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2:厂商须提供不锈钢永久位号铭牌。 Vendor should provide a permanently attached stainless steel name plate showing tag number.

3: 工艺数据如下:

Tag No. / P&ID No.	Location (Protected Equipment)	Relief Condition	Phase Fluid	Flow Rate	Nor. Pressure	Design Pressure	Set Pressure	Constant / Variable Superimposed Back Pressure	Built-up Back Press.	Flare System / Type PSV	Accumulation %	Nor. Temp.	Design Temp.	Relief Temp.	Visc.	M.W. / Sp.Gr.	Gas Z / Cp/Cv
13-PSV-301B XB11A-1208-008	13-C-301	Power Failure	V	250000.00	0.8	1.3	1.3	0.05	0.05~0.1	火炬	10	73.7	240	91	0.009	57.5	0.756
			LPG	kg/h	MPaG					平衡		℃			cP	-	1.23
	13-C-301	Fire	V	11858.00	0.8	1.3	1.3	0.05	0.05~0.1	火炬	21	73.7	240	99	0.009	57.5	0.724
			LPG	kg/h	MPaG					平衡		℃			cP	-	1.27
	13-C-301	Tube Rupture	V	10783.00	0.8	1.3	1.3	0.05	0.05~0.1	火炬	10	73.7	240	372.8	0.023	18	1.0
			LPG+HS	kg/h	MPaG					平衡		℃			cP	-	1.32



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规格书 (安全阀)

SPECIFICATION

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版次REV.: 1 日期DATE: 01/19/'18

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概述 General	1	序号 Item No.	位号 Tag No.	5	13-PSV-331
	2	应用场合 Service		13-C-331 输出	
	3	工艺流程图号 P & ID No.		XB11A-1208-012	
	4	入口管线号 Inlet Line No.	出口管线号 Outlet Line No.	13-10"-P-12025-A51F-PP	13-10"-FLG-12011-A51F
	5				
	6				
工艺条件 Process Conditions	7	工艺介质 Process Fluid	介质状态 Fluid State	(Note 3)	(Note 3)
	8	设计压力 Design Pressure	设计温度 Design Temperature	(Note 3)	(Note 3)
	9	操作压力 Operating Pressure	操作温度 Operating Temperature	(Note 3)	(Note 3)
	10	设定压力 Set Pressure	泄放温度 Discharge Temperature	(Note 3)	(Note 3)
	11	Const./Variable Superimposed Back Press.	Built-up Back Press.	(Note 3)	(Note 3)
	12	操作密度 Density @Operating	分子量 Molecular Weight	(Note 3)	(Note 3)
	13	绝热指数 Cp/Cv	压缩系数 Compressibility Factor	(Note 3)	(Note 3)
	14	需求排放量 Required Capacity		(Note 3)	
	15	操作粘度 Viscosity @Operating		(Note 3)	
	16	允许超压 % Allowable Overpressure %		10%	
	17	计算面积 Calculated Area	选择面积 Selected Area	*	*
	18	选用流孔代码 Orifice Designation	前置爆破片 Rupture Disc at Inlet	*	---
	19				
	20				
阀门 Valve	21	类型 Valve Type		Blanced Bellows	
	22	阀盖类型 Bonnet Type		Close	
	23	喷嘴类型 Nozzle Type		Full	
	24	入口连接 Inlet Connection		* 10" ASME B16.5 150LB RF	
	25	出口连接 Outlet Connection		* 10" ASME B16.5 150LB RF	
	26	阀体材质 Body Material		ASTM A216 GR.WCB	
	27	阀盖材质 Bonnet Material		ASTM A216 GR.WCB	
	28	弹簧材质 Spring material		316 S.S.	
	29	波纹管材质 Bellows Material		316L S.S.	
	30	阀芯材质 Trim Material		316 S.S. +Stellite	
	31	喷嘴材质 Nozzle Material		316 S.S. +Stellite	
	32	O形环材质 O-Ring Material		MFR. STD.	
	33	导向装置材质 Guide Material		316 S.S.	
	34	排放接管 Close Vent(Pipe-Away)		Yes	
	35	ASME UV标识 ASME UV Stamp		---	
	36	法规 Code Basis		ASME Section VIII	
	37	火灾及其他基准 Fire or Other Basis		(Note 3)	
	38				
附件 Accessories	39	螺纹式或螺栓式阀帽 Screwed or Bolted Cap		Screwed Cap	
	40	手柄 Lever		---	
	41	测试塞 Test Gag		Yes	
	42	蒸汽夹套 Steam Jacket		---	
	43				
其他 Others	44				
	45	制造商 Manufacturer		---	
	46	型号 Model No.		---	

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3: 工艺数据如下:

Tag No. / P&ID No.	Location (Protected Equipment)	Relief Condition	Phase Fluid	Flow Rate	Nor. Pressure	Design Pressure	Set Pressure	Constant/Variable Superimposed Back Pressure	Built-up Back Press.	Flare System / Type PSV	Accumulation %	Nor. Temp.	Design Temp.	Relief Temp.	Visc.	M.W. / Sp.Gr.	Gas Z/Cp/Cv
13-PSV-331 XB11A-1208-012	13-C-331	Power Failure	V	108574.00	0.52	0.8	0.8	0.05	0.05~0.1	火炬	10	96.3	160	121.9	0.009	72	0.806
			C5	kg/h	MPaG					平衡		℃			cP	-	1.13
	13-C-331	Fire	V	5403.00	0.52	0.8	0.8	0.05	0.05~0.1	火炬	21	96.3	160	121.9	0.009	72	0.784
			C5	kg/h	MPaG					平衡		℃			cP	-	1.15
	13-C-331	Tube Rupture	V	4633.00	0.52	0.8	0.8	0.05	0.05~0.1	火炬	10	96.3	160	224	0.017	18	1.0
			C5+LS	kg/h	MPaG					平衡		℃			cP	-	1.30



京鼎工程建设有限公司
CTCI Beijing Co., Ltd.

规格书 (安全阀)

SPECIFICATION

PRESSURE RELIEF VALVE

项目编号PROJ. NO.: 17E3166A

请购书编号REQ. NO.:

规格书编号SPEC. NO.: XH61A-1P00-601

版次REV.: 1 日期DATE: 01/19/'18

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概述 General	1	序号 Item No.	位号 Tag No.	6	13-PSV-332
	2	应用场合 Service		13-C-331 输出	
	3	工艺流程图号 P & ID No.		XB11A-1208-012	
	4	入口管线号 Inlet Line No.	出口管线号 Outlet Line No.	13-10"-P-12025-A51F-PP	13-10"-FLG-12011-A51F
	5				
	6				
工艺条件 Process Conditions	7	工艺介质 Process Fluid	介质状态 Fluid State	(Note 3)	(Note 3)
	8	设计压力 Design Pressure	设计温度 Design Temperature	(Note 3)	(Note 3)
	9	操作压力 Operating Pressure	操作温度 Operating Temperature	(Note 3)	(Note 3)
	10	设定压力 Set Pressure	泄放温度 Discharge Temperature	(Note 3)	(Note 3)
	11	Const./Variable Superimposed Back Press.	Built-up Back Press.	(Note 3)	(Note 3)
	12	操作密度 Density @Operating	分子量 Molecular Weight	(Note 3)	(Note 3)
	13	绝热指数 Cp/Cv	压缩系数 Compressibility Factor	(Note 3)	(Note 3)
	14	需求排放量 Required Capacity		(Note 3)	
	15	操作粘度 Viscosity @Operating		(Note 3)	
	16	允许超压 % Allowable Overpressure %		10%	
	17	计算面积 Calculated Area	选择面积 Selected Area	*	*
	18	选用流孔代码 Orifice Designation	前置爆破片 Rupture Disc at Inlet	*	---
	19				
	20				
阀门 Valve	21	类型 Valve Type		Blanced Bellows	
	22	阀盖类型 Bonnet Type		Close	
	23	喷嘴类型 Nozzle Type		Full	
	24	入口连接 Inlet Connection		* 10" ASME B16.5 150LB RF	
	25	出口连接 Outlet Connection		* 10" ASME B16.5 150LB RF	
	26	阀体材质 Body Material		ASTM A216 GR.WCB	
	27	阀盖材质 Bonnet Material		ASTM A216 GR.WCB	
	28	弹簧材质 Spring material		316 S.S.	
	29	波纹管材质 Bellows Material		316L S.S.	
	30	阀芯材质 Trim Material		316 S.S. +Stellite	
	31	喷嘴材质 Nozzle Material		316 S.S. +Stellite	
	32	O形环材质 O-Ring Material		MFR. STD.	
	33	导向装置材质 Guide Material		316 S.S.	
	34	排放接管 Close Vent(Pipe-Away)		Yes	
	35	ASME UV标识 ASME UV Stamp		---	
	36	法规 Code Basis		ASME Section VIII	
	37	火灾及其他基准 Fire or Other Basis		(Note 3)	
	38				
附件 Accessories	39	螺纹式或螺栓式阀帽 Screwed or Bolted Cap		Screwed Cap	
	40	手柄 Lever		---	
	41	测试塞 Test Gag		Yes	
	42	蒸汽夹套 Steam Jacket		---	
	43				
其他 Others	44				
	45	制造商 Manufacturer		---	
	46	型号 Model No.		---	

备注见下一页

注 Note:

- 1:*请厂商建议。 *:To be advised by vendor.
- 2:厂商须提供不锈钢永久位号铭牌。 Vendor should provide a permanently attached stainless steel name plate showing tag number.
- 3: 工艺数据如下:

Tag No. / P&ID No.	Location (Protected Equipment)	Relief Condition	Phase Fluid	Flow Rate	Nor. Pressure	Design Pressure	Set Pressure	Constant/ Variable Superimposed Back Pressure	Built-up Back Press.	Flare System / Type PSV	Accumulation %	Nor. Temp.	Design Temp.	Relief Temp.	Visc.	M.W. / Sp.Gr.	Gas Z/Cp/Cv
13-PSV-332 XB11A-1208-012	13-C-331	Power Failure	V	108574.00	0.52	0.8	0.8	0.05	0.05~0.1	火炬	10	96.3	160	121.9	0.009	72	0.806
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			C5+LS	kg/h	MPaG				平衡	平衡		℃			cP	-	1.30