

INSTRUMENT DATA SHEET

 福建省石油化学工业设计院 FUJIAN PROVINCIAL PETROCHEMICAL DESIGNING INSTITUTE 发证部门：中华人民共和国住房和城乡建设部（住建部） 发证日期：2019年12月					

								G181S	REV. 0
						DOC.NO.		G181S-2021509-K-03	
General	1	Tag Number	P&ID	P&ID No.	XOV-401G		G181S-2021509-Y-02		REV
	2	Service	Number				1		
	3	Line Number.	Pipe Mat'l		P-1001		20#		
	4	/ Pipe O.D/I.D			DN50				
Service Condition	5	Fluid	State						
	6	Flow Rate			Max.Flow	Nor.Flow	Min.Flow		
		kg/h (Liquid, Steam) nm3/h[Gas()]							
	7	Inlet Pressure MPa(G)	Outlet Des.Press.MPa(G)		1.2				
	8	Design Temp. ()	Oper.Temp.()						
	9	Des.Pressure MPa(G)	Alt.Oper. Press. MPa(G)						
	10	Des.Shut-Off DP(MPa)	Allowable dBA		1.2		≤85dB		
Body	11	Model							
	12	Type							
	13	Body Size	Bonnet Type		DN50		STANDARD		
	14	Body Mat'l	Bonnet Mat'l		WCB				
	15	Conn. Type	In						
	Out								
	16	Packing Mat'l	Packing Type						
	17	Lubricator	Packed Valve						
	18	Flange Face Finish	Flow Direction						
	19	Trim Size	Pressure Rating		,DN50 ANSI CL300,RF		CL300		
	20	Available Temp.							
Trim	21	Trim Type	Trim Mat'l		O		316L SS		
	22	Seat Mat'l	Disk Mat'l		316L SS				
	23	Stem Mat'l	Seal Type		MFR.STD.				
	24	Cv Rated Cv	Leakage Class				CLASS		
Actuator	25	Type	Model						
	26	Action	Size/Capacity						
	27	Failure Position			FC				
	28	Allow. Max.Shut-Off Diff.Press. (MPa)							
	29	Air Supply(kPa)	Pneu.Conn.		400KPa		1/4"NPT(F)-φ8		
	30	Actuator Orientation	Full Stroke Time				<10S		
	31	Handwheel Location	Manufacturer						
Accessories		End Position Switch Tag No.	Open	Close	XZSO-401G		XZSC-401G		
		End Position Switch Model							
	32	Switch Type	Explosion Proof				Exd IIC T4		
		Contact Rating & Type			MFR.STD				
		Elec.Conn.			1/2"NPT(F)				
	33	Tank Size							
	34	Cycle Times With Air Supply in Tank							
	35	Tank Volume Capacity to Ensure Air Supply(m3)							
	36	Gauges							
		Airset Model							
	37	Filter-Regulator Air Conn.& Conn.Pipe Size							
	38	Air Supply Pipe Mat'l							
	39	Solenoid Valve Tag No.			XSOV--401G				
	40	Solenoid Valve Model	Explosion Proof				Exd IIC T4		
41	PowerSupply	Elec.conn		24VDC		1/2"NPT(F)			
Miscell	42	Manufacturer							
	43								
NOTES									

								G181S	REV. 0
						DOC.NO.		G181S-2021509-K-03	
General	1	Tag Number	P&ID	P&ID No.	XOV-402G		G181S-2021509-Y-02		REV
	2	Service	Number				1		
	3	Line Number.	Pipe Mat'l		P-1004		20#		
	4	/ Pipe O.D/I.D			DN50				
Service Condition	5	Fluid	State						
	6	Flow Rate			Max.Flow	Nor.Flow	Min.Flow		
		kg/h (Liquid, Steam)	nm3/h[Gas()]						
	7	Inlet Pressure MPa(G)	Outlet Des.Press.MPa(G)		1.2				
	8	Design Temp. ()	Oper.Temp.()						
	9	Des.Pressure MPa(G)	Alt.Oper. Press. MPa(G)						
	10	Des.Shut-Off DP(MPa)	Allowable dBA		1.2		≤85dB		
Body	11	Model							
	12	Type							
	13	Body Size	Bonnet Type		DN50		STANDARD		
	14	Body Mat'l	Bonnet Mat'l		WCB				
	15	Conn. Type	In						
	Out								
	16	Packing Mat'l	Packing Type						
	17	Lubricator	Packed Valve						
	18	Flange Face Finish	Flow Direction						
	19	Trim Size	Pressure Rating		,DN50 ANSI CL300,RF		CL300		
20	Available Temp.								
Trim	21	Trim Type	Trim Mat'l		O		316L SS		
	22	Seat Mat'l	Disk Mat'l		316L SS				
	23	Stem Mat'l	Seal Type		MFR.STD.				
	24	Cv Rated Cv	Leakage Class				CLASS		
Actuator	25	Type	Model						
	26	Action	Size/Capacity						
	27	Failure Position			FC				
	28	Allow. Max.Shut-Off Diff.Press. (MPa)							
	29	Air Supply(kPa)	Pneu.Conn.		400KPa		1/4"NPT(F)-φ8		
	30	Actuator Orientation	Full Stroke Time				<10S		
	31	Handwheel Location	Manufacturer						
Accessories		End Position Switch Tag No.	Open	Close	XZSO-402G		XZSC-402G		
		End Position Switch Model							
	32	Switch Type	Explosion Proof				Exd IIC T4		
		Contact Rating & Type			MFR.STD				
		Elec.Conn.			1/2"NPT(F)				
	33	Tank Size							
	34	Cycle Times With Air Supply in Tank							
	35	Tank Volume Capacity to Ensure Air Supply(m3)							
	36	Gauges							
		Airset Model							
	37	Filter-Regulator Air Conn.& Conn.Pipe Size							
	38	Air Supply Pipe Mat'l							
	39	Solenoid Valve Tag No.			XSOV--402G				
	40	Solenoid Valve Model	Explosion Proof				Exd IIC T4		
41	PowerSupply	Elec.conn		24VDC		1/2"NPT(F)			
Miscell	42	Manufacturer							
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NOTES									



		Pipe O.D./I.D.		DN50			
Service Condition	5	Fluid		State			
	6	Flow Rate		Max.Flow		Nor.Flow	
	7	kg/h (Liquid, Steam) nm3/h[Gas()]				Min.Flow	
	8	Inlet Pressure MPa(G)		Outlet Des.Press.MPa(G)		1.2	
	9	Design Temp. ()		Oper.Temp.()			
	10	Des.Pressure MPa(G)		Alt.Oper. Press. MPa(G)			
	11	Des.Shut-Off DP(MPa)		Allowable dBA		1.2	
	12	Model				≤85dB	
	13	Type					
	14	Body Size		Bonnet Type		DN50	
Body	15	Body Mat'l		Bonnet Mat'l		WCB	
	16	Conn. Type		In Out			
	17	Packing Mat'l		Packing Type			
	18	Lubricator		Packed Valve			
	19	Flange Face Finish		Flow Direction			
Trim	20	Trim Size		Pressure Rating		,DN50 ANSI CL300,RF	
	21	Available Temp.				CL300	
	22	Trim Type		Trim Mat'l			

General	1	Part Number		ID	&ID No.		XC 04G	
	2	Service		Inlet				
	3	Line		Mat'l		1 08		
	4	Pipe O.D/I.D						
Service Condition	5	Fluid		State				
	6	Flow Rate		Max.Flow				
	6	kg/h (Liquid, Steam)		nm3/h[Gas()]				
	7	Inlet Pressure MPa(G)		Outlet Des.Press.MPa(G)		1.2		
	8	Design						

								G181S	REV. 0
						DOC.NO.		G181S-2021509-K-03	
General	1	Tag Number	P&ID	P&ID No.	XOV-405G		G181S-2021509-Y-02		REV
	2	Service	Number				1		
	3	Line Number.	Pipe Mat'l		P-1010		20#		
	4	/ Pipe O.D/I.D			DN50				
Service Condition	5	Fluid	State						
	6	Flow Rate			Max.Flow	Nor.Flow	Min.Flow		
		kg/h (Liquid, Steam)	nm3/h[Gas()]						
	7	Inlet Pressure MPa(G)	Outlet Des.Press.MPa(G)		1.2				
	8	Design Temp. ()	Oper.Temp.()						
	9	Des.Pressure MPa(G)	Alt.Oper. Press. MPa(G)						
	10	Des.Shut-Off DP(MPa)	Allowable dBA		1.2		≤85dB		
Body	11	Model							
	12	Type							
	13	Body Size	Bonnet Type		DN50		STANDARD		
	14	Body Mat'l	Bonnet Mat'l		WCB				
	15	Conn. Type	In						
	Out								
	16	Packing Mat'l	Packing Type						
	17	Lubricator	Packed Valve						
	18	Flange Face Finish	Flow Direction						
	19	Trim Size	Pressure Rating		,DN50 ANSI CL300,RF		CL300		
20	Available Temp.								
Trim	21	Trim Type	Trim Mat'l		O		316L SS		
	22	Seat Mat'l	Disk Mat'l		316L SS				
	23	Stem Mat'l	Seal Type		MFR.STD.				
	24	Cv Rated Cv	Leakage Class				CLASS		
Actuator	25	Type	Model						
	26	Action	Size/Capacity						
	27	Failure Position			FC				
	28	Allow. Max.Shut-Off Diff.Press. (MPa)							
	29	Air Supply(kPa)	Pneu.Conn.		400KPa		1/4"NPT(F)-φ8		
	30	Actuator Orientation	Full Stroke Time				<10S		
	31	Handwheel Location	Manufacturer						
Accessories	32	End Position Switch Tag No.		Open	Close	XZSO-405G		XZSC-405G	
		End Position Switch Model							
		Switch Type	Explosion Proof				Exd IICT4		
		Contact Rating & Type			MFR.STD				
		Elec.Conn.			1/2"NPT(F)				
	33	Tank Size							
	34	Cycle Times With Air Supply in Tank							
	35	Tank Volume Capacity to Ensure Air Supply(m3)							
	36	Gauges							
		Airset Model							
	37	Filter-Regulator Air Conn.& Conn.Pipe Size							
	38	Air Supply Pipe Mat'l							
	39	Solenoid Valve Tag No.			XSOV--405G				
	40	Solenoid Valve Model	Explosion Proof				Exd IICT4		
41	PowerSupply	Elec.conn		24VDC		1/2"NPT(F)			
Miscell	42	Manufacturer							
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NOTES									

Service Condition	5	Fluid	State		DN50	
	6	Flow Rate	Max.Flow		Nor.Flow	Flow
	7	kg/h (Liquid, Steam)	nm3/h[Gas()]			
	8	Inlet Pressure MPa(G)	Outlet Des.Press.MPa(G)		1.2	
	9	Design Temp. ()	Oper.Temp.()			
	10	Des.Pressure MPa(G)	Alt.Oper. Press. MPa(G)			
	11	Des.Shut-Off DP(MPa)	Allowable dBA		1.2	≤85dB
	12	Model				
	13	Type				
	Body	14	Body Size	Bonnet Type	DN50	STANDARD
15		Body Mat'l	Bonnet Mat'l	WCB		
16		Conn. Type	In Out			
17		Packing Mat'l	Packing Type /n			
18		Lubricator	Packed Valve			
19		Flange Face Finish	Flow Direction			
20		Trim Size	Pressure Rating	DN50 ANSI CL300,RF	CL300	
21		Available Temp.				
22		Trim Type	Trim Mat'l	O	316L SS	
Trim		23	Seat Mat'l	Disk Mat'l	316L SS	
	24	Stem Mat'l	Seal Type	MFR.STD.		
	25	Cv Rated Cv	Leakage Class	CLASS		
	26	Type	MFR.C450 € V™ \$ qd €			
	27	Action	Size/Capacity			
		Failure Mode	Failure Mode			

								G181S	REV. 0
						DOC.NO.		G181S-2021509-K-03	
General	1	Tag Number	P&ID	P&ID No.	XOV-407G		G181S-2021509-Y-02		REV
	2	Service	Number				1		
	3	Line Number.	Pipe Mat'l		P-1014		20#		
	4	/ Pipe O.D/I.D			DN50				
Service Condition	5	Fluid	State						
	6	Flow Rate			Max.Flow	Nor.Flow	Min.Flow		
		kg/h (Liquid, Steam)	nm3/h[Gas()]						
	7	Inlet Pressure MPa(G)	Outlet Des.Press.MPa(G)		1.2				
	8	Design Temp. ()	Oper.Temp.()						
	9	Des.Pressure MPa(G)	Alt.Oper. Press. MPa(G)						
	10	Des.Shut-Off DP(MPa)	Allowable dBA		1.2		≤85dB		
Body	11	Model							
	12	Type							
	13	Body Size	Bonnet Type		DN50		STANDARD		
	14	Body Mat'l	Bonnet Mat'l		WCB				
	15	Conn. Type	In						
	Out								
	16	Packing Mat'l	Packing Type						
	17	Lubricator	Packed Valve						
	18	Flange Face Finish	Flow Direction						
	19	Trim Size	Pressure Rating		,DN50 ANSI CL300,RF		CL300		
20	Available Temp.								
Trim	21	Trim Type	Trim Mat'l		O		316L SS		
	22	Seat Mat'l	Disk Mat'l		316L SS				
	23	Stem Mat'l	Seal Type		MFR.STD.				
	24	Cv Rated Cv	Leakage Class				CLASS		
Actuator	25	Type	Model						
	26	Action	Size/Capacity						
	27	Failure Position			FC				
	28	Allow. Max.Shut-Off Diff.Press. (MPa)							
	29	Air Supply(kPa)	Pneu.Conn.		400KPa		1/4"NPT(F)-φ8		
	30	Actuator Orientation	Full Stroke Time				<10S		
	31	Handwheel Location	Manufacturer						
Accessories	32	End Position Switch Tag No.		Open	Close	XZSO-407G		XZSC-407G	
		End Position Switch Model							
		Switch Type	Explosion Proof				Exd IIC T4		
		Contact Rating & Type			MFR.STD				
		Elec.Conn.			1/2"NPT(F)				
	33	Tank Size							
	34	Cycle Times With Air Supply in Tank							
	35	Tank Volume Capacity to Ensure Air Supply(m3)							
	36	Gauges							
		Airset Model							
	37	Filter-Regulator Air Conn.& Conn.Pipe Size							
	38	Air Supply Pipe Mat'l							
	39	Solenoid Valve Tag No.			XSOV--407G				
	40	Solenoid Valve Model	Explosion Proof				Exd IIC T4		
41	PowerSupply	Elec.conn		24VDC		1/2"NPT(F)			
Miscell	42	Manufacturer							
	43								
NOTES									

								G181S	REV. 0
						DOC.NO.		G181S-2021509-K-03	
General	1	Tag Number	P&ID	P&ID No.	XOV-408G		G181S-2021509-Y-02		REV
	2	Service	Number				1		
	3	Line Number.	Pipe Mat'l		P-1016		20#		
	4	/ Pipe O.D/I.D			DN50				
Service Condition	5	Fluid	State						
	6	Flow Rate			Max.Flow	Nor.Flow	Min.Flow		
		kg/h (Liquid, Steam)	nm3/h[Gas()]						
	7	Inlet Pressure MPa(G)	Outlet Des.Press.MPa(G)		1.2				
	8	Design Temp. ()	Oper.Temp.()						
	9	Des.Pressure MPa(G)	Alt.Oper. Press. MPa(G)						
	10	Des.Shut-Off DP(MPa)	Allowable dBA		1.2		≤85dB		
Body	11	Model							
	12	Type							
	13	Body Size	Bonnet Type		DN50		STANDARD		
	14	Body Mat'l	Bonnet Mat'l		WCB				
	15	Conn. Type	In						
	Out								
	16	Packing Mat'l	Packing Type						
	17	Lubricator	Packed Valve						
	18	Flange Face Finish	Flow Direction						
	19	Trim Size	Pressure Rating		,DN50 ANSI CL300,RF		CL300		
20	Available Temp.								
Trim	21	Trim Type	Trim Mat'l		O		316L SS		
	22	Seat Mat'l	Disk Mat'l		316L SS				
	23	Stem Mat'l	Seal Type		MFR.STD.				
	24	Cv Rated Cv	Leakage Class				CLASS		
Actuator	25	Type	Model						
	26	Action	Size/Capacity						
	27	Failure Position			FC				
	28	Allow. Max.Shut-Off Diff.Press. (MPa)							
	29	Air Supply(kPa)	Pneu.Conn.		400KPa		1/4"NPT(F)-φ8		
	30	Actuator Orientation	Full Stroke Time				<10S		
	31	Handwheel Location	Manufacturer						
Accessories		End Position Switch Tag No.	Open	Close	XZSO-408G		XZSC-408G		
		End Position Switch Model							
	32	Switch Type	Explosion Proof				Exd IIC T4		
		Contact Rating & Type			MFR.STD				
		Elec.Conn.			1/2"NPT(F)				
	33	Tank Size							
	34	Cycle Times With Air Supply in Tank							
	35	Tank Volume Capacity to Ensure Air Supply(m3)							
	36	Gauges							
		Airset Model							
	37	Filter-Regulator Air Conn.& Conn.Pipe Size							
	38	Air Supply Pipe Mat'l							
	39	Solenoid Valve Tag No.			XSOV--408G				
	40	Solenoid Valve Model	Explosion Proof				Exd IIC T4		
41	PowerSupply	Elec.conn		24VDC		1/2"NPT(F)			
Miscell	42	Manufacturer							
	43								
NOTES									

							G181S	REV. 0
					DOC.NO.		G181S-2021509-K-03	
General	1	Tag Number	P&ID	P&ID No.	XOV-409G	G181S-2021509-Y-02		REV
	2	Service	Number				1	
	3	Line Number.	Pipe Mat'l		P-1018	20#		
	4	/ Pipe O.D/I.D			DN50			
Service Condition	5	Fluid	State					
	6	Flow Rate			Max.Flow	Nor.Flow	Min.Flow	
		kg/h (Liquid, Steam)	nm3/h[Gas()]					
	7	Inlet Pressure MPa(G)	Outlet Des.Press.MPa(G)		1.2			
	8	Design Temp. ()	Oper.Temp.()					
	9	Des.Pressure MPa(G)	Alt.Oper. Press. MPa(G)					
	10	Des.Shut-Off DP(MPa)	Allowable dBA		1.2	≤85dB		
Body	11	Model						
	12	Type						
	13	Body Size	Bonnet Type		DN50	STANDARD		
	14	Body Mat'l	Bonnet Mat'l		WCB			
	15	Conn. Type	In					
	Out							
	16	Packing Mat'l	Packing Type					
	17	Lubricator	Packed Valve					
	18	Flange Face Finish	Flow Direction					
	19	Trim Size	Pressure Rating		DN50 ANSI CL300,RF	CL300		
20	Available Temp.							
Trim	21	Trim Type	Trim Mat'l		O	316L SS		
	22	Seat Mat'l	Disk Mat'l		316L SS			
	23	Stem Mat'l	Seal Type		MFR.STD.			
	24	Cv Rated Cv	Leakage Class				CLASS	
Actuator	25	Type	Model					
	26	Action	Size/Capacity					
	27	Failure Position			FC			
	28	Allow. Max.Shut-Off Diff.Press. (MPa)						
	29	Air Supply(kPa)	Pneu.Conn.		400KPa	1/4"NPT(F)-φ8		
	30	Actuator Orientation	Full Stroke Time				<10S	
	31	Handwheel Location	Manufacturer					
Accessories	32	End Position Switch Tag No.		Open	Close	XZSO-409G	XZSC-409G	
		End Position Switch Model						
		Switch Type	Explosion Proof				Exd IICT4	
		Contact Rating & Type		MFR.STD				
		Elec.Conn.		1/2"NPT(F)				
	33	Tank Size						
	34	Cycle Times With Air Supply in Tank						
	35	Tank Volume Capacity to Ensure Air Supply(m3)						
	36	Gauges						
		Airset Model						
	37	Filter-Regulator Air Conn.& Conn.Pipe Size						
	38	Air Supply Pipe Mat'l						
	39	Solenoid Valve Tag No.		XSOV--409G				
	40	Solenoid Valve Model	Explosion Proof				Exd IICT4	
41	PowerSupply	Elec.conn		24VDC	1/2"NPT(F)			
Miscell	42	Manufacturer						
	43							
NOTES								

								G181S	REV. 0
						DOC.NO.		G181S-2021509-K-03	
General	1	Tag Number	P&ID	P&ID No.	XOV-410G		G181S-2021509-Y-02		REV
	2	Service	Number				1		
	3	Line Number.	Pipe Mat'l		P-1020		20#		
	4	/ Pipe O.D/I.D			DN50				
Service Condition	5	Fluid	State						
	6	Flow Rate			Max.Flow	Nor.Flow	Min.Flow		
		kg/h (Liquid, Steam)	nm3/h[Gas()]						
	7	Inlet Pressure MPa(G)	Outlet Des.Press.MPa(G)		1.2				
	8	Design Temp. ()	Oper.Temp.()						
	9	Des.Pressure MPa(G)	Alt.Oper. Press. MPa(G)						
	10	Des.Shut-Off DP(MPa)	Allowable dBA		1.2		≤85dB		
Body	11	Model							
	12	Type							
	13	Body Size	Bonnet Type		DN50		STANDARD		
	14	Body Mat'l	Bonnet Mat'l		WCB				
	15	Conn. Type	In						
	Out								
	16	Packing Mat'l	Packing Type						
	17	Lubricator	Packed Valve						
	18	Flange Face Finish	Flow Direction						
	19	Trim Size	Pressure Rating		,DN50 ANSI CL300,RF		CL300		
20	Available Temp.								
Trim	21	Trim Type	Trim Mat'l		O		316L SS		
	22	Seat Mat'l	Disk Mat'l		316L SS				
	23	Stem Mat'l	Seal Type		MFR.STD.				
	24	Cv Rated Cv	Leakage Class				CLASS		
Actuator	25	Type	Model						
	26	Action	Size/Capacity						
	27	Failure Position			FC				
	28	Allow. Max.Shut-Off Diff.Press. (MPa)							
	29	Air Supply(kPa)	Pneu.Conn.		400KPa		1/4"NPT(F)-φ8		
	30	Actuator Orientation	Full Stroke Time				<10S		
	31	Handwheel Location	Manufacturer						
Accessories	32	End Position Switch Tag No.		Open	Close	XZSO-410G		XZSC-410G	
		End Position Switch Model							
		Switch Type	Explosion Proof				Exd IIC T4		
		Contact Rating & Type			MFR.STD				
		Elec.Conn.			1/2"NPT(F)				
	33	Tank Size							
	34	Cycle Times With Air Supply in Tank							
	35	Tank Volume Capacity to Ensure Air Supply(m3)							
	36	Gauges							
		Airset Model							
	37	Filter-Regulator Air Conn.& Conn.Pipe Size							
	38	Air Supply Pipe Mat'l							
	39	Solenoid Valve Tag No.			XSOV--410G				
	40	Solenoid Valve Model	Explosion Proof				Exd IIC T4		
41	PowerSupply	Elec.conn		24VDC		1/2"NPT(F)			
Miscell	42	Manufacturer							
	43								
NOTES									