






OWNER:  شرکت سست و سویی توهمه ایرانیان (سهامی عامه)	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT							EPC CONTRACTOR:  Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT	
	INSTRUMENT DATA SHEET FOR EMERGENCY INSTRUMENT AIR COMPRESSOR							 Netherlands	
MC :  شرکت سست و سویی توهمه ایرانیان (سهامی عامه)	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No : 52-98/445	
Owner Document Number: 17811-12B	BU	20	VD	303	IN	DSH	0090	Rev.:	Page
								04	1 of 22

INSTRUMENT DATA SHEET FOR EMERGENCY INSTRUMENT AIR COMPRESSOR

Rev	Date	Purpose of Issue	Prepared	Checked	Approved	AC Code
04	05/01/2022	For approval	TvT	KP	LdM	
03	19/11/2021	For approval	TvT	KP	LdM	
02	27/10/2021	For approval	TvT	KP	LdM	
01	21/09/2021	For approval	TvT	KP	LdM	
00	19/11/2020	For approval	TvT	KP	LdM	
				Class: 1		Phase: P


INDEX			
No.	Device	Tag Number	Page
1	Diff. Pressure Gauge	PDG-71101	4
2	Pressure Gauge	PG-71102	5
3	Pressure Gauge	PG-71105	6
4	Pressure Gauge	PG-71106	7
5	Temperature Gauge	TG-71104	8
6	Thermowell	TW-71104	9
7	Temperature Gauge	TG-71103	10
8	Thermowell	TW-71103	11
9	Level Gauge	LG-71101	12
10	Pressure Transmitter	PIT-71103	13
11	Pressure Transmitter	PIT-71104	14
12	Pressure Transmitter	PIT-71107	15
13	Temperature Transmitter	TIT-71101	16
14	Thermowell + Element	TW-71101	17
15	Temperature Transmitter	TIT-71102	18
16	Thermowell + Element	TW-71102	19
17	Flow Transmitter	FIT-71101	20
18	Vibration Transmitter	VT-71101	21
19	Solenoid Valve	XY-71101, XY-71102	22
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
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53			
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Notes:

				INSTRUMENT AND VALVE DATASHEET Index 		
04	TT	5-1-2022	For Approval			
03	TT	19-11-2021	For Approval			
02	TT	27-10-2021	For Approval			
01	TT	21-9-2021	For Approval			
00	TT	19-11-2020	For Approval			
Rev	By	Date	Description			
				Sheet	3 of 22	
				Based on P&ID	Rev.04	


GENERAL	1	Tag Number		PDG-71101	
	2	Service		Differential Pressure	
	3	P&ID No.		BU-20-VD-303-PR-WG-0066	
	4	Location		Compressor Inlet strainer	
	5	Ingress Protection		IP65	
	6	Line/equipment number		2"-INA-7001-511C(N)	
	7				
PROCESS CONDITIONS	8	Fluid	State	Air	Dry Gas
	9	Pressure	Norm. Max.	8 Bar(a)	8.5 Bar(a)
	10	Temperature	Norm. Max.	Ambient	45°C
	11	Design	Press. Temp.	13.5 Bar(a)	85°C
	12	Ambient Temp.	Min. Max.	5 °C	52 °C
	13				
GAUGE	14				
	15	Type		Diaphragm type	
	16	Range	Unit	-100 ... 100	mbar
	17	Mounting		Panel mounted	
	18	Dial Size	Dial Color	150 mm	White. Black numbers
	19	Case Material		SS 316	
	20	Ring Construction	Ring Material	Bayonet	SS 316
	21	Blow-Out Protection		Yes @ back	
	22	Lens Material		Shatterproof laminated safety glass	
	23	Pressure Element Type		Diaphragm	
	24	Pressure Element Material		SS 316	
	25	Socket Material		SS 316	
	26	Connection Size		2 x 1/4" NPT-F	
	27	ConnectionLocation		Back	
	28	Movement Material		SS 316	
	29	Nominal Accuracy		±1.0% of full scale	
	30	Gauge Filling		Glycerine	
	31	Over Range Protection		1,3 x full scale value	
	32	Zero stop pin		Yes	
	33	Zero mechanisme		Adjustable	
	34				
	35				
	36				
	37				
38					
39					
40					
41					
42					
OPTIONS	43	Snubber	Material	Yes	SS316
	44	Gauge Savers	Material	N/A	N/A
	45	Manifold (Block & Bleed)		1/2" NPTF, 5-way B&B manifold	SS316 (Airpack Scope)
	46	Block valve (Hand ball valve)		Yes SS316 (Airpack scope)	
	47				
CERTIFICATES	48				
	49	Calibration certificate		Yes	
	50	3.1 Material certificate		Yes	
	51	IP certificate		No	
	52				
PURCHASE	53				
	54	Manufacturer		According to aproved vendor list	
	55	Model		Supplier to advise	
	56				
	57				

NOTES :

04	TT	5-1-2022	For Approval	INSTRUMENT AND VALVE DATASHEET Diff. Pressure Gauge 	Sheet 4 of 22 Based on P&ID Rev.04
03	TT	19-11-2021	For Approval		
02	TT	27-10-2021	For Approval		
01	TT	21-9-2021	For Approval		
00	TT	19-11-2020	For Approval		
Rev	By	Date	Description		


GENERAL	1	Tag Number		PG-71102	
	2	Service		Air pressure	
	3	P&ID No.		BU-20-VD-303-PR-WG-0066	
	4	Location		Compressor Inlet	
	5	Ingress Protection		IP65	
	6	Line/equipment number		2"-INA-7001-511C(N)	
	7				
	8				
PROCESS CONDITIONS	9	Fluid	State	Air	Dry Gas
	10	Pressure	Norm. Max.	8 Bar(a)	8,5 Bar(a)
	11	Temperature	Norm. Max.	Ambient	45°C
	12	Design	Press. Temp.	13.5 Bar(a)	85°C
	13	Ambient Temp.	Min. Max.	5 °C	52 °C
	14				
	15				
	16				
	17				
	18				
GAUGE	19	Type		Bourdon tube	
	20	Range	Unit	0 ...16	bar(a)
	21	Mounting		Panel mounted	
	22	Dial Size	Dial Color	150 mm	White. Black numbers
	23	Case Material		SS 316	
	24	Ring Construction	Ring Material	Bayonet	SS 316
	25	Blow-Out Protection		Yes @ Back	
	26	Lens Material		Shatterproof laminated safety glass	
	27	Pressure Element Material		SS 316	
	28	Socket Material		SS 316	
	29	Connection Size		1/2" NPT-M	
	30	ConnectionLocation		Back-Bottom	
	31	Movement Material		SS 316	
	32	Nominal Accuracy		±1,0 % of span	
	33	Gauge Filling		Glycerine	
	34	Over Range Protection		1,3 x full scale value	
	35	Zero stop pin		Yes	
	36	Zero mechanisme		Adjustable	
37					
OPTIONS	38	Snubber	Material	Yes	SS316
	39	Gauge Savers	Material	N/A	N/A
	40	Manifold (Block & Bleed)		1/2" NPTF, 2-way B&B manifold	SS316 (Airpack Scope)
	41	Block valve (Hand ball valve)		Yes	SS316 (Airpack supply)
	42				
	43				
CERTIFICATES	44				
	45	Calibration certificate		Yes	
	46	3.1 Material certificate		Yes	
	47	IP certificate		No	
	48				
PURCHASE	49				
	50				
	51	Manufacturer		According to aproved vendor list	
	52	Model		Supplier to advise	
	53				
	54				
	55				
56					
57					

NOTES :

04	TT	5-1-2022	For Approval	INSTRUMENT AND VALVE DATASHEET Pressure Gauge 	Sheet 5 of 22 Based on P&ID Rev.04
03	TT	19-11-2021	For Approval		
02	TT	27-10-2021	For Approval		
01	TT	21-9-2021	For Approval		
00	TT	19-11-2020	For Approval		
Rev	By	Date	Description		


GENERAL	1	Tag Number		PG-71105	
	2	Service		Instrument air pressure	
	3	P&ID No.		BU-20-VD-303-PR-WG-0066	
	4	Location		Compressor Upstream After-Cooler	
	5	Ingress Protection		IP65	
	6	Line/equipment number		2"-INA-7002-539D(N)	
	7				
	8				
PROCESS CONDITIONS	9	Fluid	State	Air	Dry Gas
	10	Pressure	Norm. Max.	21 Bar(a)	26 Bar(a)
	11	Temperature	Norm. Max.	180°C	195°C
	12	Design	Press. Temp.	26 Bar(a)	210°C
	13	Ambient Temp.	Min. Max.	5 °C	52 °C
	14				
	15				
	16				
	17				
	18				
GAUGE	19	Type		Bourdon tube, solid front	
	20	Range	Unit	1...40	bar(a)
	21	Mounting		Panel mounted	
	22	Dial Size	Dial Color	150 mm	White. Black numbers
	23	Case Material		SS 316	
	24	Ring Construction	Ring Material	Bayonet	SS 316
	25	Blow-Out Protection		Yes @ Back, solid front	
	26	Lens Material		Shatterproof laminated safety glass	
	27	Pressure Element Material		SS 316	
	28	Socket Material		SS 316	
	29	Connection Size		1/2" NPT-M	
	30	Connection Location		Back-Bottom	
	31	Movement Material		SS 316	
	32	Nominal Accuracy		±1,0 % of span	
	33	Gauge Filling		Glycerine	
	34	Over Range Protection		1,3 x full scale value	
	35	Zero stop pin		Yes	
	36	Zero mechanisme		Adjustable	
	37				
OPTIONS	38	Snubber	Material	Yes	SS316
	39	Gauge Savers	Material	N/A	N/A
	40	Manifold (Block & Bleed)		1/2" NPTF, 2-way B&B manifold	SS316 (Airpack Scope)
	41	Block valve (Hand ball valve)		Yes	SS316 (Airpack supply)
	42				
	43				
CERTIFICATES	44				
	45	Calibration certificate		Yes	
	46	3.1 Material certificate		Yes	
	47	IP certificate		No	
	48				
PURCHASE	49				
	50				
	51	Manufacturer		According to aproved vendor list	
	52	Model		Supplier to advise	
	53				
	54				
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NOTES :

04	TT	5-1-2022	For Approval	INSTRUMENT AND VALVE DATASHEET Pressure Gauge 	Sheet 6 of 22 Based on P&ID Rev.04
03	TT	19-11-2021	For Approval		
02	TT	27-10-2021	For Approval		
01	TT	21-9-2021	For Approval		
00	TT	19-11-2020	For Approval		
Rev	By	Date	Description		


GENERAL	1	Tag Number		PG-71106	
	2	Service		Water pressure	
	3	P&ID No.		BU-20-VD-303-PR-WG-0066	
	4	Location		Compressor Cooling water Inlet	
	5	Ingress Protection		IP65	
	6	Line/equipment number		1 1/2"-CWS-7003-501C(N)	
	7				
	8				
PROCESS CONDITIONS	9	Fluid	State	Water	Liquid
	10	Pressure	Norm. Max.	4,5 Bar(g)	5 Bar(g)
	11	Temperature	Norm. Max.	35°C	45°C
	12	Design	Press. Temp.	10 Bar(g)	95°C
	13	Ambient Temp.	Min. Max.	5 °C	52 °C
	14				
	15				
	16				
	17				
	18				
GAUGE	19	Type		Bourdon tube	
	20	Range	Unit	0 ...10	bar(g)
	21	Mounting		Panel mounted	
	22	Dial Size	Dial Color	150 mm	White. Black numbers
	23	Case Material		SS 316	
	24	Ring Construction	Ring Material	Bayonet	SS 316
	25	Blow-Out Protection		Yes @ Back	
	26	Lens Material		Shatterproof laminated safety glass	
	27	Pressure Element Material		SS 316	
	28	Socket Material		SS 316	
	29	Connection Size		1/2" NPT-M	
	30	ConnectionLocation		Back-Bottom	
	31	Movement Material		SS 316	
	32	Nominal Accuracy		±1,0 % of span	
	33	Gauge Filling		Glycerine	
	34	Over Range Protection		1,3 x full scale value	
	35	Zero stop pin		Yes	
	36	Zero mechanisme		Adjustable	
37					
OPTIONS	38	Snubber	Material	No	N/A
	39	Gauge Savers	Material	N/A	N/A
	40	Manifold (Block & Bleed)		1/2" NPTF, 2-way B&B manifold	SS316 (Airpack Scope)
	41	Block valve (Hand ball valve)		Yes	SS316 (Airpack supply)
	42				
	43				
CERTIFICATES	44				
	45	Calibration certificate		Yes	
	46	3.1 Material certificate		Yes	
	47	IP certificate		No	
	48				
	49				
	50				
PURCHASE	51	Manufacturer		According to aproved vendor list	
	52	Model		Supplier to advise	
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NOTES :

04	TT	5-1-2022	For Approval	INSTRUMENT AND VALVE DATASHEET Pressure Gauge 	Sheet 7 of 22 Based on P&ID Rev.04
03	TT	19-11-2021	For Approval		
02	TT	27-10-2021	For Approval		
01	TT	21-9-2021	For Approval		
00	TT	19-11-2020	For Approval		
Rev	By	Date	Description		


GENERAL	1	Tag Number		TG-71104		
	2	Service		Water temperature		
	3	P&ID No.		BU-20-VD-303-PR-WG-0066		
	4	Location		Compressor Cooling water Inlet		
	5	Ingress Protection		IP65		
	6	Line/equipment number		1 1/2"-CWS-7003-501C(N)		
	7					
	8					
PROCESS CONDITIONS	9	Fluid	State		Water Liquid	
	10	Pressure	Norm.	Max.	4,5 Bar(g) 5 Bar(g)	
	11	Temperature	Norm.	Max.	35°C 45°C	
	12	Design	Press.	Temp.	10 Bar(g) 95°C	
	13	Ambient Temp.	Min.	Max.	5 °C 52 °C	
	14					
	15					
	16					
	17					
	18					
GAUGE	19	Type		Bi-metal		
	20	Range	Unit	0...60	°C	
	21	Dial Size	Dial Color	150 mm	White. Black numbers	
	22	Case material		SS 316		
	23	Stem Material		SS 316		
	24	Mounting		Panel mounted		
	25	Lens Material		Shatterproof laminated safety glass		
	26	Stem length	Stem Diameter	To fit in TW	6 mm	
	27	External Calibrator		Yes		
	28	Nominal Accuracy		±1.0% of full scale		
	29	Connection		1/2" NPT-M x 6 mm OD compression fitting, sliding on stem		
	30	Liquid filling		Glycerine		
	31	Element case		Hermetically sealed		
	32					
	33	FILLED SYSTEM	Compensation		-	
	34		Capillary Length		5 meter	
	35		Capillary Material		SS 316	
	36		Armor Material		SS 316	
	37					
	38					
	39					
	40					
41						
42						
43						
44						
CERTIFICATES	45	Calibration certificate		Yes		
	46	3.1 Material certificate		Yes		
	47	IP certificate		No		
	48					
	49					
PURCHASE	51	Manufacturer		According to aproved vendor list		
	52	Model		Supplier to advise		
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NOTES :

04	TT	5-1-2022	For Approval	INSTRUMENT AND VALVE DATASHEET Temperature Gauge 	Sheet 8 of 22 Based on P&ID Rev.04
03	TT	19-11-2021	For Approval		
02	TT	27-10-2021	For Approval		
01	TT	21-9-2021	For Approval		
00	TT	19-11-2020	For Approval		
Rev	By	Date	Description		


GENERAL	1	Tag Number			TW-71104	
	2	Service			Water temperature	
	3	P&ID No.			BU-20-VD-303-PR-WG-0066	
	4	Location			TG-71104	
	5					
	6					
	7					
	8					
PROCESS CONDITIONS	9	Fluid	State		Water	Liquid
	10	Pressure	Norm.	Max.	4,5 Bar(g)	5 Bar(g)
	11	Temperature	Norm.	Max.	35°C	45°C
	12	Design	Press.	Temp.	10 Bar(g)	95°C
	13	Ambient Temp.	Min.	Max.	5 °C	52 °C
	14					
	15					
	16					
THERMOWELL	19	Material			SS 316	
	20	Construction			Solid bar stock	
	21	Process Connection			1 1/2" ANSI RF #300 (Ra 125-250 AARH)	
	22	Instrument Connection			1/2" NPT-F	
	23	Tip Diameter			To be advised by supplier	
	24	Bore Diameter			To house a 6 mm OD element	
	25	U-length			160 mm (4" pipe)	
	26					
	27					
	28					
	29					
	30					
	31					
	32					
	33					
	34					
	35					
	36					
	37					
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42						
43						
44						
45						
46						
47						
48						
CERTIFICATES	49	3.1 Material certificate			Yes	
	50					
	51					
	52					
CALCULATIONS	53	Wake frequency calculation			No	
	54					
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NOTES :

				INSTRUMENT AND VALVE DATASHEET	
04	TT	5-1-2022	For Approval	 Sheet 9 of 22 Based on P&ID Rev.04	
03	TT	19-11-2021	For Approval		
02	TT	27-10-2021	For Approval		
01	TT	21-9-2021	For Approval		
00	TT	19-11-2020	For Approval		
Rev	By	Date	Description		


GENERAL	1	Tag Number		TG-71103		
	2	Service		Water temperature		
	3	P&ID No.		BU-20-VD-303-PR-WG-0066		
	4	Location		Compressor Cooling water Outlet		
	5	Ingress Protection		IP65		
	6	Line/equipment number		1 1/2"-CWR-7008-501C(N)		
	7					
	8					
PROCESS CONDITIONS	9	Fluid	State		Water Liquid	
	10	Pressure	Norm.	Max.	2,5 Bar(g) 3 Bar(g)	
	11	Temperature	Norm.	Max.	45°C 55°C	
	12	Design	Press.	Temp.	10 Bar(g) 95°C	
	13	Ambient Temp.	Min.	Max.	5 °C 52 °C	
	14					
	15					
	16					
	17					
	18					
GAUGE	19	Type		Bi-metal		
	20	Range	Unit	0...60	°C	
	21	Dial Size	Dial Color	150 mm	White. Black numbers	
	22	Case material		SS 316		
	23	Stem Material		SS 316		
	24	Mounting		Panel mounted		
	25	Lens Material		Shatterproof laminated safety glass		
	26	Stem length	Stem Diameter	To fit in TW	6 mm	
	27	External Calibrator		Yes		
	28	Nominal Accuracy		±1.0% of full scale		
	29	Connection		1/2" NPT-M x 6 mm OD compression fitting, sliding on stem		
	30	Liquid filling		Glycerine		
	31	Element case		Hermetically sealed		
	32					
	33	FILLED SYSTEM	Compensation		-	
	34		Capillary Length		5 meter	
	35		Capillary Material		SS 316	
	36		Armor Material		SS 316	
	37					
	38					
	39					
	40					
41						
42						
43						
44						
CERTIFICATES	45	Calibration certificate		Yes		
	46	3.1 Material certificate		Yes		
	47	IP certificate		No		
	48					
	49					
	50					
PURCHASE	51	Manufacturer		According to aproved vendor list		
	52	Model		Supplier to advise		
	53					
	54					
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NOTES :

04	TT	5-1-2022	For Approval	INSTRUMENT AND VALVE DATASHEET Temperature Gauge 	Sheet 10 of 22 Based on P&ID Rev.04
03	TT	19-11-2021	For Approval		
02	TT	27-10-2021	For Approval		
01	TT	21-9-2021	For Approval		
00	TT	19-11-2020	For Approval		
Rev	By	Date	Description		


GENERAL	1	Tag Number			TW-71103	
	2	Service			Water temperature	
	3	P&ID No.			BU-20-VD-303-PR-WG-0066	
	4	Location			TG-71103	
	5					
	6					
	7					
	8					
PROCESS CONDITIONS	9	Fluid	State		Water	Liquid
	10	Pressure	Norm.	Max.	2,5 Bar(g)	3 Bar(g)
	11	Temperature	Norm.	Max.	45°C	55°C
	12	Design	Press.	Temp.	10 Bar(g)	95°C
	13	Ambient Temp.	Min.	Max.	5 °C	52 °C
	14					
	15					
	16					
THERMOWELL	19	Material			SS 316	
	20	Construction			Solid bar stock	
	21	Process Connection			1 1/2" ANSI RF #300 (Ra 125-250 AARH)	
	22	Instrument Connection			1/2" NPT-F	
	23	Tip Diameter			To be advised by supplier	
	24	Bore Diameter			To house a 6 mm OD element	
	25	U-length			160 mm (4" pipe)	
	26					
	27					
	28					
	29					
	30					
	31					
	32					
	33					
	34					
	35					
	36					
	37					
	38					
CERTIFICATES	49	3.1 Material certificate			Yes	
	50					
	51					
	52					
CALCULATIONS	53	Wake frequency calculation			No	
	54					
	55					
	56					
	57					

NOTES :

				INSTRUMENT AND VALVE DATASHEET	
04	TT	5-1-2022	For Approval	 Sheet 11 of 22 Based on P&ID Rev.04	
03	TT	19-11-2021	For Approval		
02	TT	27-10-2021	For Approval		
01	TT	21-9-2021	For Approval		
00	TT	19-11-2020	For Approval		
Rev	By	Date	Description		


GENERAL	1	Tag Number			LG-71101	
	2	Service			Oil level	
	3	P&ID No.			BU-20-VD-303-PR-WG-0066	
	4	Location			Compressor oil sump	
	5	Ingress Protection			IP65	
	6	Line/equipment number			20-C-7080	
	7					
	8					
PROCESS CONDITIONS	9	Fluid	State		Oil	Liquid
	10	Pressure	Norm.	Max.	Ambient	-
	11	Temperature	Norm.	Max.	45°C	65°C
	12	Design	Press.	Temp.	5 Bar(g)	80°C
	13	Ambient Temp.	Min.	Max.	5 °C	52 °C
	14					
	15					
	16					
GAUGE	19	Type			Bull-Eye	
	20					
	21	Mounting			Locally	
	22	Case Material			SS316	
	23	Lens Material / Scale			Pyrex glass	
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					
	32					
OPTIONS	38					
	39					
	40					
	41					
	42					
	43					
	44					
CERTIFICATES	45	3.1 Material certificate			No	
	46					
	47					
	48					
	49					
PURCHASE	51	Manufacturer			TBA	
	52					
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NOTES :

04	TT	5-1-2022	For Approval	INSTRUMENT AND VALVE DATASHEET Sight glass 	Sheet 12 of 22 Based on P&ID Rev.04
03	TT	19-11-2021	For Approval		
02	TT	27-10-2021	For Approval		
01	TT	21-9-2021	For Approval		
00	TT	19-11-2020	For Approval		
Rev	By	Date	Description		


GENERAL	1	Tag Number		PIT-71103		
	2	Service		Air Pressure		
	3	P&ID No.		BU-20-VD-303-PR-WG-0066		
	4	Location		Compressor Inlet		
	5	Ingress Protection		IP65		
	6	Line/equipment number		2"-INA-7001-511C(N)		
	7					
	8					
PROCESS CONDITIONS	9	Fluid	State		Air	Dry Gas
	10	Pressure	Norm.	Max.	8 Bar(a)	8,5 Bar(a)
	11	Temperature	Norm.	Max.	Ambient	45°C
	12	Design	Press.	Temp.	13.5 Bar(a)	85°C
	13	Ambient Temp.	Min.	Max.	5 °C	52 °C
	14	Setpoint	LL	L	6,9 Bar(a)	
	15		H	HH		8,6 Bar(a)
	16					
	17					
18						
TRANSMITTER	19	Function		Field mounted Transmitter		
	20	Element Type		Diaphragm		
	21	Element Material		SS 316L		
	22	Housing Material		Aluminium, epoxy coated		
	23	Power Supply		24 VDC, 2-wire, loop powered		
	24	Process Conn.	Electric Conn.		½" NPTM	ISO M20 x 1,5
	25	Accuracy		± 0.1% of span		
	26	Calibrated Range	Unit		0...13,5	bar(a)
	27	Adjustable Range	Unit		VTA	bar(a)
	28	Allow. Press.	Allow. Temp.		To be informed by supplier	To be informed by supplier
	29	Area Classification		Zone 2, Eex'ia		
	30	Communication Protocol		Smart , HART 5		
	31	Output Signal		4 - 20 mA		
	32	Sensor Fill Fluid		To be informed by supplier		
	33					
	34					
35						
36						
OPTIONS	37	Integral Meter	Scale		Yes, LCD	bar(a)
	38	Lightning And Surge Protection		N/A		
	39	Mounting facilities		Bracket		
	40	Manifold (Block & Bleed)		1/2" NPTF, 3-way B&B manifold	SS316 (Airpack Scope)	
	41	Housing ground connection		Yes, external (tightened with screws)		
	42	Cable Gland		Yes, Eex 'd' certified (Airpack scope)		
	43	Block valve (Hand ball valve)		Yes SS316 (Airpack supply)		
CERTIFICATES	44	Calibration certificate		Yes		
	45	3.1 Material certificate		Yes		
	46	ATEX		No		
	47	SIL certificate		No		
	48	IP certificate		No		
	49					
PURCHASE	51	Manufacturer		According to aproved vendor list		
	52	Model		Supplier to advise		
	53					
	54					
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NOTES :

				INSTRUMENT AND VALVE DATASHEET	
04	TT	5-1-2022	For Approval	 Pressure Transmitter	
03	TT	19-11-2021	For Approval		
02	TT	27-10-2021	For Approval		
01	TT	21-9-2021	For Approval		
00	TT	19-11-2020	For Approval		
Rev	By	Date	Description	Sheet 13 of 22 Based on P&ID Rev.04	


GENERAL	1	Tag Number		PIT-71104		
	2	Service		Oil Pressure		
	3	P&ID No.		BU-20-VD-303-PR-WG-0066		
	4	Location		Compressor Oil system		
	5	Ingress Protection		IP65		
	6	Line/equipment number		20-C-7080		
	7					
	8					
PROCESS CONDITIONS	9	Fluid	State	Oil	Liquid	
	10	Pressure	Norm. Max.	3 Bar(g)	3,5 Bar(g)	
	11	Temperature	Norm. Max.	45°C	65°C	
	12	Design	Press. Temp.	5 Bar(a)	80°C	
	13	Ambient Temp.	Min. Max.	5 °C	52 °C	
	14	Setpoint	LL	L	1,5 Bar(g)	
	15		H	HH		
	16					
	17					
	18					
TRANSMITTER	19	Function		Field mounted Transmitter		
	20	Element Type		Diaphragm		
	21	Element Material		SS 316L		
	22	Housing Material		Aluminium, epoxy coated		
	23	Power Supply		24 VDC, 2-wire, loop powered		
	24	Process Conn.	Electric Conn.	½" NPTM	ISO M20 x 1,5	
	25	Accuracy		± 0.1% of span		
	26	Calibrated Range	Unit	-1...5	bar(g)	
	27	Adjustable Range	Unit	VTA	bar(g)	
	28	Allow. Press.	Allow. Temp.	To be informed by supplier	To be informed by supplier	
	29	Area Classification		Zone 2, Eex'ia		
	30	Communication Protocol		Smart , HART 5		
	31	Output Signal		4 - 20 mA		
	32	Sensor Fill Fluid		To be informed by supplier		
	33					
	34					
35						
36						
OPTIONS	37	Integral Meter	Scale	Yes, LCD	bar(a)	
	38	Lightning And Surge Protection		N/A		
	39	Mounting facilities		Bracket		
	40	Manifold (Block & Bleed)		1/2" NPTF, 3-way B&B manifold, lock. SS316 (Airpack Scope)		
	41	Housing ground connection		Yes, external (tightened with screws)		
	42	Cable Gland		Yes, Eex 'd' certified (Airpack scope)		
	43	Block valve (Hand ball valve)		Yes SS316 (Airpack supply)		
CERTIFICATES	44	Calibration certificate		Yes		
	45	3.1 Material certificate		Yes		
	46	ATEX		No		
	47	SIL certificate		No		
	48	IP certificate		No		
	49					
PURCHASE	51	Manufacturer		According to aproved vendor list		
	52	Model		Supplier to advise		
	53					
	54					
	55					
	56					
	57					

NOTES :

				INSTRUMENT AND VALVE DATASHEET	
04	TT	5-1-2022	For Approval	 Pressure Transmitter	
03	TT	19-11-2021	For Approval		
02	TT	27-10-2021	For Approval		
01	TT	21-9-2021	For Approval		
00	TT	19-11-2020	For Approval		
Rev	By	Date	Description	Sheet 14 of 22 Based on P&ID Rev.04	


GENERAL	1	Tag Number		PIT-71107	
	2	Service		Air Pressure	
	3	P&ID No.		BU-20-VD-303-PR-WG-0066	
	4	Location		Compressor Outlet	
	5	Ingress Protection		IP65	
	6	Line/equipment number		2"-INA-7002-539D(N)	
	7				
	8				
PROCESS CONDITIONS	9	Fluid	State		Air Dry Gas
	10	Pressure	Norm.	Max.	21 Bar(a) 26 Bar(a)
	11	Temperature	Norm.	Max.	40°C 45°C
	12	Design	Press.	Temp.	26 Bar(a) 85°C
	13	Ambient Temp.	Min.	Max.	5 °C 52 °C
	14	Setpoint	LL	L	18,5 Bar(a) 19 Bar(a) load/start
	15		H	HH	21 Bar(a) unload/stop 21,5 Bar(a)
	16				
	17				
18					
TRANSMITTER	19	Function		Field mounted Transmitter	
	20	Element Type		Diaphragm	
	21	Element Material		SS 316L	
	22	Housing Material		Aluminium, epoxy coated	
	23	Power Supply		24 VDC, 2-wire, loop powered	
	24	Process Conn.	Electric Conn.		½" NPTM ISO M20 x 1,5
	25	Accuracy		± 0.1% of span	
	26	Calibrated Range	Unit		1...36 bar(a)
	27	Adjustable Range	Unit		VTA bar(a)
	28	Allow. Press.	Allow. Temp.		To be informed by supplier To be informed by supplier
	29	Area Classification		Zone 2, Eex'ia	
	30	Communication Protocol		Smart , HART 5	
	31	Output Signal		4 - 20 mA	
	32	Sensor Fill Fluid		To be informed by supplier	
	33				
	34				
35					
36					
OPTIONS	37	Integral Meter	Scale		Yes, LCD bar(a)
	38	Lightning And Surge Protection		N/A	
	39	Mounting facilities		Bracket	
	40	Manifold (Block & Bleed)		1/2" NPTF, 3-way B&B manifold SS316 (Airpack Scope)	
	41	Housing ground connection		Yes, external (tightened with screws)	
	42	Cable Gland		Yes, Eex 'd' certified (Airpack scope)	
	43	Block valve (Hand ball valve)		Yes SS316 (Airpack supply)	
CERTIFICATES	44	Calibration certificate		Yes	
	45	3.1 Material certificate		Yes	
	46	ATEX		No	
	47	SIL certificate		No	
	48	IP certificate		No	
	49				
PURCHASE	51	Manufacturer		According to aproved vendor list	
	52	Model		Supplier to advise	
	53				
	54				
	55				
	56				
	57				

NOTES :

				INSTRUMENT AND VALVE DATASHEET	
04	TT	5-1-2022	For Approval	 Pressure Transmitter	
03	TT	19-11-2021	For Approval		
02	TT	27-10-2021	For Approval		
01	TT	21-9-2021	For Approval		
00	TT	19-11-2020	For Approval		
Rev	By	Date	Description	Sheet 15 of 22 Based on P&ID Rev.04	


GENERAL	1	Tag Number		TIT-71101		
	2	Service		Instrument Air Temperature		
	3	P&ID No.		BU-20-VD-303-PR-WG-0066		
	4	Location		Compressor Inlet		
	5	Ingress Protection		IP65		
	6	Line/equipment number		2"-INA-7001-511C(N)		
	7					
	8					
PROCESS CONDITIONS	9	Fluid	State		Air	Dry Gas
	10	Pressure	Norm.	Max.	8 Bar(a)	8.5 Bar(a)
	11	Temperature	Norm.	Max.	Ambient	45°C
	12	Design	Press.	Temp.	13.5 Bar(a)	85°C
	13	Ambient Temp.	Min.	Max.	5 °C	52 °C
	14	Setpoint	LL	L		
	15		H	HH	56 °C	
	16					
TRANSMITTER	17	Function		Field mounted Transmitter		
	18	Transmitter Type		Temperature		
	19	RTD Types Supported		N/A		
	20	Thermocouples Types Supported		Yes, TC type 'K'		
	21	MV Type Supported		N/A		
	22	Cold Junction Compensation		Internal compensation		
	23	Housing Material		Aluminium, epoxy coated		
	24	Power supply		24 VDC, 2 wire, loop powered		
	25	Electric Conn.		ISO M20 x 1,5		
	26	Accuracy		± 0.1% of span		
	27	Calibrated Range	Unit		0...80	°C
	28	Burn-out Protection/Loss of Input		Overrange		
	29	Area Classification		Zone 2, Eex'ia		
	30	Communication Protocol		Smart , HART 5		
	31	Output Signal		4-20 mA		
	32	Adjustable Range		Yes		
	33					
	34					
	35					
	36					
	37					
38						
39						
40						
41						
OPTIONS	42	Integral Meter	Scale		Yes, LCD	°C
	43	Lightning And Surge Protection		N/A		
	44	Mounting facilities		Bracket		
	45	Housing ground connection		Yes, external (tightened with screws)		
	46	Cable Gland		Yes, Eex 'd' certified (Airpack scope)		
CERTIFICATES	47	Calibration certificate		Yes		
	48	ATEX		No		
	49	IP certificate		No		
	50	SIL certificate	Level		No	
	51					
	52					
PURCHASE	53	Manufacturer		According to aproved vendor list		
	54	Model		Supplier to advise		
	55					
	56					
	57					

Notes:

				INSTRUMENT AND VALVE DATASHEET	
04	TT	5-1-2022	For Approval		
03	TT	19-11-2021	For Approval		
02	TT	27-10-2021	For Approval		
01	TT	21-9-2021	For Approval		
00	TT	19-11-2020	For Approval		
Rev	By	Date	Description	Sheet 16 of 22 Based on P&ID Rev.04	


GENERAL	1	ThermowellTag Number			TW-71101	
	2	Service			Temperature Transmitter	
	3	P&ID No.			BU-20-VD-303-PR-WG-0066	
	4	Location			TIT-71101	
	5					
	6					
	7					
	8					
PROCESS CONDITIONS	9	Fluid	State		Air	Dry Gas
	10	Pressure	Norm.	Max.	8 Bar(a)	8.5 Bar(a)
	11	Temperature	Norm.	Max.	45°C	65°C
	12	Design	Press.	Temp.	13.5 Bar(a)	85°C
	13	Ambient Temp.	Min.	Max.	5 °C	52 °C
	14					
	15					
	16					
THERMOWELL	19	Material			SS 316	
	20	Construction			Solid bar stock	
	21	Process Connection			1 1/2" ANSI RF #300 (Ra 125-250 AARH)	
	22	Instrument Connection			1/2" NPT-F	
	23	Stem Diameter			To be advised by supplier	
	24	Bore Diameter			To house a 6 mm OD element	
	25	U-length			160 mm (4" pipe)	
	26					
ELEMENT	30	ElementTag Number			TE-71101	
	31	Construction			Sensor with lead wire, transition and relief spring	
	32	Type Of Element			TC type 'K / Simplex	
	33	Accuracy Class			DIN - IEC-EN 60584 Class 1	
	34	Outside Diameter Sensor			6 mm	
	35	Connection			1/2" NPT-M x 6,0 mm OD coupling sliding on stem	
	36	Element Length			To fit in Thermowell	
	37	Type Of Cable			Armoured	
	38	Cable Length			5 m	
	39	Special construction			No	
	40	Sheat Material			SS 316	
	41	Element case			Hermetically sealed	
OPTIONS	42					
	43					
	44					
CERTIFICATES	45					
	46					
	47					
CALCULATIONS	48					
	49	3.1 Material certificate			Yes	
	50	Functional test report (up-down) for elem			Yes	
	51	Calibration certificate			Yes	
	52					
	53	Wake frequency calculation			No	
	54					
	55					
	56					
	57					

NOTES :

				INSTRUMENT AND VALVE DATASHEET	
04	TT	5-1-2022	For Approval	 Thermowell + Element	
03	TT	19-11-2021	For Approval		
02	TT	27-10-2021	For Approval		
01	TT	21-9-2021	For Approval		
00	TT	19-11-2020	For Approval		
Rev	By	Date	Description	Sheet 17 of 22 Based on P&ID Rev.04	


GENERAL	1	Tag Number		TIT-71102	
	2	Service		Instrument Air Temperature	
	3	P&ID No.		BU-20-VD-303-PR-WG-0066	
	4	Location		Compressor upstream after cooler	
	5	Ingress Protection		IP65	
	6	Line/equipment number		2"-INA-7002-539D(N)	
	7				
	8				
PROCESS CONDITIONS	9	Fluid	State		Air Dry Gas
	10	Pressure	Norm.	Max.	21 Bar(a) 26 Bar(a)
	11	Temperature	Norm.	Max.	180°C 195°C
	12	Design	Press.	Temp.	26 Bar(a) 210°C
	13	Ambient Temp.	Min.	Max.	5 °C 52 °C
	14	Setpoint	LL	L	
	15		H	HH	195 °C
	16				
TRANSMITTER	17	Function		Field mounted Transmitter	
	18	Transmitter Type		Temperature	
	19	RTD Types Supported		N/A	
	20	Thermocouples Types Supported		Yes, TC type 'K'	
	21	MV Type Supported		N/A	
	22	Cold Junction Compensation		Internal compensation	
	23	Housing Material		Aluminium, epoxy coated	
	24	Power supply		24 VDC, 2 wire, loop powered	
	25	Electric Conn.		ISO M20 x 1,5	
	26	Accuracy		± 0.1% of span	
	27	Calibrated Range	Unit		0...240 °C
	28	Burn-out Protection/Loss of Input		Overrange	
	29	Area Classification		Zone 2, Eex'ia	
	30	Communication Protocol		Smart , HART 5	
	31	Output Signal		4-20 mA	
	32	Adjustable Range		Yes	
	33				
	34				
	35				
	36				
	37				
38					
39					
40					
41					
OPTIONS	42	Integral Meter	Scale		Yes, LCD °C
	43	Lightning And Surge Protection		N/A	
	44	Mounting facilities		Bracket	
	45	Housing ground connection		Yes, external (tightened with screws)	
	46	Cable Gland		Yes, Eex 'd' certified (Airpack scope)	
CERTIFICATES	47	Calibration certificate		Yes	
	48	ATEX		No	
	49	IP certificate		No	
	50	SIL certificate	Level		No
	51				
	52				
PURCHASE	53	Manufacturer		According to aproved vendor list	
	54	Model		Supplier to advise	
	55				
	56				
	57				

Notes:

				INSTRUMENT AND VALVE DATASHEET	
04	TT	5-1-2022	For Approval		
03	TT	19-11-2021	For Approval		
02	TT	27-10-2021	For Approval		
01	TT	21-9-2021	For Approval		
00	TT	19-11-2020	For Approval		
Rev	By	Date	Description	Sheet 18 of 22 Based on P&ID Rev.04	


GENERAL	1	ThermowellTag Number		TW-71102	
	2	Service		Temperature Transmitter	
	3	P&ID No.		BU-20-VD-303-PR-WG-0066	
	4	Location		TIT-71102	
	5				
	6				
	7				
	8				
PROCESS CONDITIONS	9	Fluid	State	Air	Dry Gas
	10	Pressure	Norm. Max.	21 Bar(a)	26 Bar(a)
	11	Temperature	Norm. Max.	180°C	195°C
	12	Design	Press. Temp.	26 Bar(a)	210°C
	13	Ambient Temp.	Min. Max.	5 °C	52°C
	14				
	15				
	16				
	17				
	18				
THERMOWELL	19	Material		SS 316	
	20	Construction		Solid bar stock	
	21	Process Connection		1 1/2" ANSI RF #300 (Ra 125-250 AARH)	
	22	Instrument Connection		1/2" NPT-F	
	23	Stem Diameter		To be advised by supplier	
	24	Bore Diameter		To house a 6 mm OD element	
	25	U-length		160 mm (4" pipe)	
	26				
	27				
	28				
ELEMENT	30	ElementTag Number		TE-71102	
	31	Construction		Sensor with lead wire, transition and relief spring	
	32	Type Of Element		TC type 'K / Simplex	
	33	Accuracy Class		DIN - IEC-EN 60584 Class 1	
	34	Outside Diameter Sensor		6 mm	
	35	Connection		1/2" NPT-M x 6,0 mm OD coupling sliding on stem	
	36	Element Length		To fit in Thermowell	
	37	Type Of Cable		Armoured	
	38	Cable Length		5 m	
	39	Special construction		No	
	40	Sheat Material		SS 316	
	41	Element case		Hermetically sealed	
	42				
	43				
OPTIONS	46				
	47				
	48				
CERTIFICATES	49	3.1 Material certificate		Yes	
	50	Functional test report (up-down) for elem		Yes	
	51	Calibration certificate		Yes	
	52				
CALCULATIONS	53	Wake frequency calculation		No	
	54				
	55				
	56				
	57				

NOTES :

				INSTRUMENT AND VALVE DATASHEET	
04	TT	5-1-2022	For Approval	 Sheet 19 of 22 Based on P&ID Rev.04	
03	TT	19-11-2021	For Approval		
02	TT	27-10-2021	For Approval		
01	TT	21-9-2021	For Approval		
00	TT	19-11-2020	For Approval		
Rev	By	Date	Description		


GENERAL	1	Tag Number		FIT-71101		
	2	Service		Water Flow		
	3	P&ID No.		BU-20-VD-303-PR-WG-0066		
	4	Location		Compressor cooling water outlet		
	5	Ingress Protection		IP65		
	6	Line/equipment number		1 1/2"-CWR-7008-501C(N)		
PROCESS CONDITIONS	7	Fluid	State	Water	Liquid	
	8	Pressure	Norm. Max.	2,5 Bar(g)	3 Bar(g)	
	9	Temperature	Norm. Max.	45°C	55°C	
	10	Flow		3,5 m³/hr		
	11	Density	Viscosity	990 kg/m³	0.597 Cp	
	12	Design	Press. Temp.	10 Bar(g)	95°C	
	13	Ambient Temp.	Min. Max.	5 °C	52 °C	
	14	Set Point	LL L	-	2,3 m3/hr	
	15		H HH	-	-	
	16					
TRANSMITTER	17	Function		Transmitter		
	18	Transmitter Type		Flow		
	19	Calibrated Range	Unit	0...5	m³/hr	
	20	Instrument Range	Unit	To be advised by supplier	m³/hr	
	21	Transmitter Housing		Integral		
	22	Cable Entry		ISO M20 x 1.5		
	23	Power Supply		24 VDC, 2 wire, loop powered		
	24	Enclosure Material		Aluminium, epoxy coated		
	25	Meter To Transmitter Cable		N/A,		
	26	Internal Compensation		Yes, pressure & temperature		
	27	Accuracy		±1.0% of span		
	28	Area Classification		Zone 2, Eex'ia		
	29	Communication Protocol		Smart , HART 5		
	30	Output Signal		4-20 mA		
	31					
	32					
METER	33	Type		Variable Area		
	34	Meter Size		To be advised, 1 1/2" line size available		
	35	Size & Rating		ANSI 150# RF		
	36	Body Material		Carbon Steel		
	37	Flange Material		Carbon Steel		
	38	Bluff Body Material		SS 316 / SS 316L		
	39	O-ring Material		-		
	40	Other Wetted Parts		SS 316 / SS 316L		
	41	Permanent Pressure Loss		To be advised by supplier		
	42	Mounting/ direction		horizontal		
OPTIONS	43	Integral Meter	Scale	Yes,	m³/hr	
	44	Lightning And Surge Protection		N/A		
	45	Mounting facilities		N/A		
	46	Block Valve		N/A		
	47	Housing ground connection		Yes, external (tightened with screws)		
	48	Cable Gland		Yes, Eex 'd' certified (Airpack scope)		
CERTIFICATES	49	Calibration certificate		Yes		
	50	3.1 Material certificate		Yes		
	51	ATEX		No		
	52	SIL certificate	Level	No		
	53	IP certificate		No		
	54					
PURCHASE	55	Manufacturer		According to aproved vendor list		
	56	Model		Supplier to advise		
	57					

NOTES :

04	TT	5-1-2022	For Approval	INSTRUMENT AND VALVE DATASHEET Flow Transmitter 	Sheet 20 of 22 Based on P&ID Rev.04
03	TT	19-11-2021	For Approval		
02	TT	27-10-2021	For Approval		
01	TT	21-9-2021	For Approval		
00	TT	19-11-2020	For Approval		
Rev	By	Date	Description		

GENERAL	1	Tag Number		VT-71101		
	2	Service		Vibration level		
	3	P&ID No.		BU-20-VD-303-PR-WG-0066		
	4	Location		Compressor		
	5	Ingress Protection		IP65		
	6	Line/equipment number		20-C-7080		
PROCESS CONDITIONS	7	Fluid	State		Air	Wet Air
	8	Pressure	Norm.	Max.	Atmospheric	Atmospheric
	9	Temperature	Norm.	Max.	190°C	195°C
	10	Design	Press.	Temp.	Atmospheric	200°C
	11	Ambient Temp.	Min.	Max.	5 °C	52 °C
	12	Set Point	LL	L	-	-
	13		H	HH	-	8 mm/sec
TRANSMITTER	14					
	15	Function		Compressor vibration transmitter		
	16	Case Material		SS 316L		
	17	Calibrated Range	Unit		To be advised by supplier	mm/sec
	18	Frequency Response		10 Hz to 1000 Hz (600 to 60,000 cpm) ±1.0 dB		
	19	Area Classification		Zone 2, Eex'ia		
	20	Communication Protocol		Smart, HART 5		
	21	Output Signal		4-20 mA		
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					
	32					
	33					
34						
35						
36						
37						
38						
39						
OPTIONS	40	Integral Meter	Scale		No	N/A
	41	Lightning And Surge Protection		N/A		
	42	Mounting facilities		Plate Stud 3/8-24 to M8x1		
	43	Housing ground connection		Yes, external (tightened with screws)		
	44	Cable Gland		Yes, Eex 'd' certified (Airpack scope)		
CERTIFICATES	45					
	46	Calibration certificate		Yes		
	47	3.1 Material certificate		No		
	48	ATEX		No		
	49	SIL certificate	Level		No	
	50	IP certificate		No		
PURCHASE	51					
	52					
	53					
	54	Manufacturer		According to approved vendor list		
55	Model		Supplier to advise			
56						
57						


NOTES :

04	TT	5-1-2022	For Approval	INSTRUMENT AND VALVE DATASHEET Vibration Transmitter 	Sheet 21 of 22 Based on P&ID Rev.04
03	TT	19-11-2021	For Approval		
02	TT	27-10-2021	For Approval		
01	TT	21-9-2021	For Approval		
00	TT	19-11-2020	For Approval		
Rev	By	Date	Description		

GENERAL	1	Tag Number		XY-71101, XY-71102	
	2	Service		Solenoid Valve	
	3	P&ID No.		BU-20-VD-303-PR-WG-0066	
	4	Location		Compressor inlet	
	5	Ingress Protection		IP65	
	6	Line/equipment number		Instrument air line	
	7				
	8				
	9				
PROCESS CONDITIONS	10	Fluid	State	Air	Dry Gas
	11	Pressure	Norm. Max.	8 Bar(a)	8,5 Bar(a)
	12	Temperature	Norm. Max.	Ambient	45°C
	13	Design	Press. Temp.	13,5 Bar(a)	85°C
	14	Ambient Temp.	Min. Max.	5 °C	52 °C
	15				
	16				
VALVE BODY	18	Type		Direct acting	
	19	Configuration		3 way 2 position	
	20	Fail position		To be used as FO (Fail open)	
	21	Ports		1/4" NPT-F	
	22	Body Material		SS316	
	23	Seat Sealing Material		To be advised by the manufacturer	
	24				
	25				
	26				
	27				
	28				
	29				
ELECTRICAL	33	Voltage		24 VDC	
	34	Power consumption		< 3W	
	35	Class of Coil Insulation		H	
	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 2, Exd	
	41				
	42				
	43				
CERTIFICATES	44	3.1 Material certificate		Yes	
	45	ATEX		Yes	
	46	SIL certificate	Level	No	
	47	IP certificate		No	
	48				
PURCHASE	50	Manufacturer		According to aproved vendor list	
	51	Model		Supplier to advise	
	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	
				Solenoid Valve	
					
04	TT	5-1-2022	For Approval		
03	TT	19-11-2021	For Approval		
02	TT	27-10-2021	For Approval		
01	TT	21-9-2021	For Approval		
00	TT	19-11-2020	For Approval		
Rev	By	Date	Description		
				Sheet 22 of 22 Based on P&ID Rev.04	