







OWNER:  شرکت سست و سویی توهم ایرانیان (سهامی خاص)	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 توهم ایرانیان (سهامی خاص)	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
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- Manufacturer and model no. must be specified after data sheet approval. also "VTA" , "To be advised by supplier" and etc. must be specified too.


INSTRUMENT DATA SHEET FOR EMERGENCY INSTRUMENT AIR COMPRESSOR

 شرکت سست و سویی توهم ایرانیان (سهامی خاص)	 Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT
Document Review		
Issue Purpose:	IFA	
Result Code: AP,AN,CM,RE,NC	CM	
Next Status : IFC,IFA,IFI,AFC,AB	IFA	
Responsible Department	MECHANICAL	
Commented Date	Dec/11/2021	
Approval or review hereunder shall not be construed to relieve Vendor / Subcontractor of his responsibilities and liability under the contract.		

Rev	Date	Purpose of Issue	Prepared	Checked	Approved	AC Code
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						


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Notes:

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01	TT	27-10-2021	For Approval			
00	TT	20-9-2021	For Approval			
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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 :

				INSTRUMENT AND VALVE DATASHEET	
				Diff. Pressure Gauge	
					
02	TT	19-11-2021	For Approval		
01	TT	27-10-2021	For Approval		
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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				
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NOTES :


				INSTRUMENT AND VALVE DATASHEET	
				Pressure Gauge	
					
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Based on Basis of design of the project design temperature must be specified by the following rule:
 Design temperature for PROCESS equipment shall whichever is higher:
 • maximum operating temperature +15°C (+25°C for Feed/Effluent exchanger)
 • boiling temperature at design pressure of PROCESS medium inside, if applicable
 Design temperature shall be rounded up to full 5°C steps
 Design minimum temperature shall be specified only if the minimum operating temperature is below 0°C.
 Design minimum temperature shall be 5°C less than the minimum operating temperature. Special attention shall be given to low boiling liquids such as LPG.
 For piping, design temperature shall be determined according to ASME B31.3.
 The comment is valid for all instruments .

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GENERAL	4	Location		Compressor upstream After-Cooler	
	5	Ingress Protection		IP65	
	6	Line/equipment number		2"-INA-7002-539D(N)	
	7				
PROCESS CONDITIONS	9	Fluid	State	Air	Dry Gas
	10	Pressure	Norm. Max.	21 Bar(a)	26 Bar(a)
	11	Temperature	Norm. Max.	190°C	195°C
	12	Design	Press. Temp.	26 Bar(a)	200°C
	13	Ambient Temp.	Min. Max.	5 °C	52 °C
	14				
	15				
	16				
GAUGE	17	Based on Basis of design of the project design pressure must be specified by the following rule: Design pressure of process static EQUIPMENT shall be based on the max. operating pressure. Malfunction and EQUIPMENT failure shall be taken into consideration by safety devices. Design pressure shall be selected from the list below: • for max operating pressure below 2 barg use 3.5 barg • for max operating pressure between 2 barg and 15 barg use max operating pressure +1.5 barg • for max operating pressure between 15 barg and 100 barg use max operating pressure x 110% • for max operating pressure equal and above 100 barg use max operating pressure +10 bar The comment is valid for all instruments .			
	18				
	19	Type			
	20	Range			
	21	Mount			
	22	Dial Size			
	23	Case			
	24	Ring C			
	25	Blow-Off 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				
CERTIFICATES	43				
	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				
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NOTES :

				INSTRUMENT AND VALVE DATASHEET	
				Pressure Gauge	
02	TT	19-11-2021	For Approval		
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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	Gauge savers shall be considered for the services such that full scale of the gauge is smaller than its design pressure			
	15				
	16				
	17				
	18				
GAUGE	19			Bourdon tube	
	20	Range	Unit	0 ...6	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	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	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	
	53				
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				INSTRUMENT AND VALVE DATASHEET	
				Pressure Gauge	
					
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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		
	53					
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				INSTRUMENT AND VALVE DATASHEET	
				Temperature Gauge	
					
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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					
	38					
CERTIFICATES	49	3.1 Material certificate			Yes	
	50					
	51					
	52					
CALCULATIONS	53	Wake frequency calculation			No	
	54				Repeated Comment Airpack shall submit wake frequency calculation sheets to meet ASME PTC 19.3 to purchaser for approval.	
	55					
	56					
	57					

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				INSTRUMENT AND VALVE DATASHEET	
				Thermowell	
02	TT	19-11-2021	For Approval		
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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 :


				INSTRUMENT AND VALVE DATASHEET	
				Temperature Gauge	
					
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Repeated Comment
Please refer to comments on page 9.

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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					
	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	
				Thermowell	
02	TT	19-11-2021	For Approval		
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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					
OPTIONS	38					
	39					
	40					
	41					
	42					
	43					
CERTIFICATES	45	3.1 Material certificate			No	
	46					
	47					
	48					
PURCHASE	51	Manufacturer			TBA	
	52					
	53					
	54					
	55					
	56					

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				Sight glass	
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00	TT	20-9-2021	For Approval		
Rev	By	Date	Description	Based on P&ID Rev.02	


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	
	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	
				Pressure Transmitter	
02	TT	19-11-2021	For Approval		
01	TT	27-10-2021	For Approval		
00	TT	20-9-2021	For Approval		
Rev	By	Date	Description	Sheet 13 of 22 Based on P&ID Rev.02	


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	
				Pressure Transmitter	
02	TT	19-11-2021	For Approval		
01	TT	27-10-2021	For Approval		
00	TT	20-9-2021	For Approval		
Rev	By	Date	Description	Sheet 14 of 22 Based on P&ID Rev.02	


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	
				Pressure Transmitter	
02	TT	19-11-2021	For Approval		
01	TT	27-10-2021	For Approval		
00	TT	20-9-2021	For Approval		
Rev	By	Date	Description		Sheet 15 of 22 Based on P&ID Rev.02

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	
				Temperature Transmitter	
02	TT	19-11-2021	For Approval		
01	TT	27-10-2021	For Approval		
00	TT	20-9-2021	For Approval		
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Repeated Comment
Please refer to comments on page 9.

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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	
				Thermowell + Element	
02	TT	19-11-2021	For Approval		
01	TT	27-10-2021	For Approval		
00	TT	20-9-2021	For Approval		
Rev	By	Date	Description		Sheet 17 of 22 Based on P&ID Rev.02

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.	190°C 195°C
	12	Design	Press.	Temp.	26 Bar(a) 200°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...200 °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	
				Temperature Transmitter	
02	TT	19-11-2021	For Approval		Sheet 18 of 22
01	TT	27-10-2021	For Approval		
00	TT	20-9-2021	For Approval		
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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.	190°C	195°C
	12	Design	Press.	Temp.	26 Bar(a)	200°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	
				Thermowell + Element	
02	TT	19-11-2021	For Approval		
01	TT	27-10-2021	For Approval		
00	TT	20-9-2021	For Approval		
Rev	By	Date	Description		
					Sheet 19 of 22 Based on P&ID Rev.02


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 :

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

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 aproved vendor list		
55	Model		Supplier to advise			
56						
57						


NOTES :

				INSTRUMENT AND VALVE DATASHEET	
				Vibration Transmitter	
					
02	TT	19-11-2021	For Approval		
01	TT	27-10-2021	For Approval		
00	TT	20-9-2021	For Approval		
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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	
02	TT	19-11-2021	For Approval		
01	TT	27-10-2021	For Approval		
00	TT	20-9-2021	For Approval		
Rev	By	Date	Description		Sheet 22 of 22 Based on P&ID Rev.02