


	Toase-ehe Park Sanati Gohar Ofogh Petrochemical Co.	  	
	CONCEPTUAL, BASIC and DETAIL DESIGN ENGINEERING OF STYRENE PARK OFFSITE		
	Document Title: Instrument Data Sheet for Active Carbon Filter	Document No. : EI027-ENR-VD-IN-DSH-003	Rev.: R1

STYRENE PARK OFFSITE

Document Title:

**Instrument Data Sheet
for
Active Carbon Filter**

Rev.	Issued Date	DESCRIPTION	PREPARED	CHECKED	APPROVED
R1	11/6/2024	Final Issue	A.Mohamadhoseini	E.Malek	H.Keshmiri
R0	17/04/2024	Issued for Comment	A.Mohamadhoseini	E.Malek	H.Keshmiri

Page	Revisions							Page	Revisions						
	R0	R1	R2	R3	R4	R5	R6		R0	R1	R2	R3	R4	R5	R6
1	X	X						41							
2	X	X						42							
3	X	X						43							
4	X	X						44							
5	X	X						45							
6								46							
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Datasheet for Pressure Gauges

GENERAL										
1	Item Number	Tag Number	QTY.			1	See Table A			2
2	Service				See Table A					
3	P&ID No.				EI027-ENR-VD-PR-PID-003-R3			R01		
4	Line/Equipment No.				See table A					
PROCESS CONDITIONS										
5	Fluid	Phase			Air+Styrene (3.5 g/Nm3)			Vapor		
6	Oper. Pressure	Min.	Nor.	Max.	Unit	See table A	See table A	See table A	barg	
7	Oper. Diff. Press.	Min.	Nor.	Max.	Unit	0		0.07		bar
8	Oper. Temp.	Min.	Nor.	Max.	Unit	31			C	
9	Design Pressure				Unit	0.2			barg	
10	Design Temp.				Unit	85			C	
11	Operating Viscosity				Unit	0.02			cP	
12	Pulsation				No					
13	Corrosive Service	Super Heat			YES			No		
14	Toxic Service	NACE Requirement			YES			No		
GAUGE										
15	Instrument Type	Model			Pressure Gauge			V.T.A		
16	Instrument Range	Unit			(-1) - (0.6)			barg		
17	Zero Adjustment				Required					
18	Mounting				Lower Mounting					
19	Dial Size	Dial Color			150 mm			White Back. (Dual Unit: barg/psig)		
20	Case Material				S.S					
21	Ring Construction	Ring Material			Screwed			S.S 316		
22	Pressure Element Type				Bourdon Tube					
23	Pressure Element Material				S.S 316					
24	Socket Material				S.S 316					
25	Connection Size	Connection Location			1/2" NPTM			Bottom		
26	Movement Material				S.S 316					
27	Nominal Accuracy				±1 % Full Span					
28	Blow-Out Protection				Required/Rear Blow-Out protection					
29	Over range Protection				130% of Full Span					
30	Ingress Protection				IP 65					
31	Standard				EN 837-1					
32	Glass				Safety glass					
DIAPHRAGM SEAL										
33	Model Number				N/A					
34	Type				N/A					
35	Process Connection				N/A					
36	Connection MatL.	Connection Rating			N/A			N/A		
37	Extended Length				N/A					
38	Diaphragm Material				N/A					
39	Bottom Housing Material				N/A					
40	Fill Fluid				N/A					
41	Capillary Length				N/A					
42	Capillary Bleeder				N/A					
43	Capillary Material				N/A					
44	Flushing Connection				N/A					
45	Top Housing Material				N/A					
46	Instrument Connection				N/A					
47	Fill Connection				N/A					
OPTIONS										
48	Siphon	Type / Material			N/A			N/A		
49	Snubber	Material			N/A			N/A		
50	Over range Protector	Material			N/A			N/A		
51	Oil Filled				N/A			N/A		
MANIFOLD										
52	Valve Type	Model			2-Way Valve			V.T.A		
53	Body Material	Trim Material			S.S 316			S.S 316		
54	Process Connection	Instrument Connection			1/2" NPTF			1/2" NPTF		
55	Vent/Drain size	Valve Rating			1/4" NPTF			3000#		
56	Packing Material				PTFE			R01		

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PURCHASE	57	Manufacturer	V.T.A
	58	Model	V.T.A
	59		

Notes:

Table A							
item	Tag No.	Service	Line No./Equip. No	Oper. Pressure (Barg)			Remark
				min.	norm.	max.	
1	PI-0001	Active Carbon Filter A	PK-0002-A	0	0.03	0.07	
2	PI-0002	Active Carbon Filter A	PK-0002-B	0	0.03	0.07	

DATA SHEET FOR DIFFERENTIAL PRESSURE TRANSMITTER

GENERAL	1	Item Number	Tag Number	QTY.	2	See Table B		2
	2	Service			See Table B			
	3	P&ID No.			EI027-ENR-VD-PR-PID-003-R3			
	4	Line/Equipment No.			See table B			
PROCESS CONDITIONS	5	Fluid	Phase		Air+Styrene (3.5 g/Nm3)		Vapor	
	6	Oper. Pressure	Min.	Nor.	Max.	Unit	0	0.03
	7	Oper. Diff. Press.	Min.	Max.	Unit	See Table B	See Table B	bar
	8	Oper. Temp.			Unit	31		C
	9	Design Pressure			Unit	0.2		bar
	10	Design Temp.			Unit	85		C
	11	Operating Viscosity			Unit	0.02		cP
	12	Pulsation			No			
	13	Corrosive Service		Super Heat		YES		No
	14	Toxic Service		NACE Requirement		YES		No
	TRANSMITTER	15	Instrument Type		Model		DIFFERENTIAL PRESSURE TRANSMITTER	
16		Instrument Range		Calibration Range		Unit	-621.60 to 621.60 mbar (V.T.C)	0 - (0.1) bar
17		Zero Adjustment		Span Adjustment		Yes		Yes
18		Integrated Local Indicators			LCD Required			
19		Power Supply		Power Consumption		24 vDC		V.T.A
20		Output Signal		Electrical Connection		4-20 mA		M20*1.5
21		Housing Material			Die-Cast Aluminum			
22		Ex Certificate			Ex'd' IIB T3			
23		Ingress Protection			IP 65			
SENSING & BODY		24	Element Type		Element Material		Diaphragm Type	
	25	Body Material			S.S 316			
	26	Instrument Connection			1/2" NPTM			
	27	Accuracy			±0.15 % of Calibration span			
DIAPHRAGM SEAL	28	Model Number			N/A			
	29	Type			N/A			
	30	Process Connection			N/A			
	31	Connection Material		Connection Rating		N/A		
	32	Extended Length			N/A			
	33	Diaphragm Material			N/A			
	34	Bottom Housing Material			N/A			
	35	Fill Fluid			N/A			
	36	Capillary Length			N/A			
	37	Capillary Bleeder			N/A			
	38	Capillary Material			N/A			
	39	Flushing Connection			N/A			
	40	Top Housing Material			N/A			
OPTIONS	41	Siphon		Type / Material		N/A		N/A
	42	Snubber		Material		N/A		N/A
	43	Over range Protector		Material		N/A		N/A
	44	Oil Filled				N/A		N/A
MANIFOLD	45	Valve Type		Model		5-Way Valve		V.T.A
	46	Body Material		Trim Material		S.S 316		S.S 316
	47	Process Connection/Instrument Connection			1/2" NPTM			
	48	Vent/Drain size/ Valve Rating			1/4" NPTM/3000#			
	49	Packing Material			PTFE			
PURCHASE	51	Manufacturer						
	52	Model						
	53							

Notes:

Table B						
item	Tag No.	Service	Line No./Equip. No	Oper. Diff. (Barg)		Remark
				min.	max.	
1	PDIT-0001	Carbon Filter	PK-0002-A	0	0.07	
2	PDIT-0002	Carbon Filter	PK-0002-B	0	0.07	