





OWNER :
BOUALI SINA
PETROCHEMICAL
COMPANY (BSPC)
PROJ. NO. : BS /3-04

 PETROCHEMICAL INDUSTRIES DESIGN & ENGINEERING CO. PROJ. NO :1171	 S A Z E H CONSULTANTS	THIRD AROMATICS PLANT	
		COVER SHEET	

DOCUMENT TITLE :

INSTRUMENT DATA SHEET

GAS CHROMATOGRAPHY
(UNIT 900)

DOCUMENT NO : **90-DSH-IN-613**

TOTAL PAGES : 6
(EXCLUDING COVER SHEET)

2	Jan. 16, 02	APPROVED FOR CONSTRUCTION	AFC	M.GH.	M.GH.	K.L.		
1	Apr. 3, 01	ISSUED FOR ENGINEERING	IFA	M.F.	F.A.D.	K.L.		
0	May 4, 00	ISSUED FOR INQUIRY	IFI	T.M.	T.M.	K.L.		
REV.	DATE	DESCRIPTION	STATUS CODE	PREPARED	CHECKED	APPROVED	PROJECT	

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**BOUALI SINA PETROCHEMICAL
COMPANY (BSPC)
PROJ. NO. : BS /3-04**

**PETROCHEMICAL
INDUSTRIES DESIGN
ENGINEERING CO
PROJ. NO. : 1171**



GAS CHROMATOGRAPHY

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- 2 -9 PETROCHEMICAL INDUSTRIES DESIGN ENGINEERING CO PROJ. NO. : 1171		THIRD AROMATICS PLANT		
		INSTRUMENT DATA SHEET		
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- 3-9	PETROCHEMICAL INDUSTRIES DESIGN ENGINEERING CO PROJ. NO. : 1171	 SAZEH CONSULTANTS	THIRD AROMATICS PLANT INSTRUMENT DATA SHEET GAS CHROMATOGRAPHY DOC. NO. : 90-DSH-IN-613 2	
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TAG NO. : AT 90018A	See Note 1
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SERVICE: RAFFINATE COLUMN BOTTOM SAMPLING			
SAMPLE TAKEN FROM: OUTLET E-9007		SAMPLE RETURN TO: TO OUTLET E-9007	
NO. OF STREAMS: ONE			
INSTALLATION: LOCAL <input type="checkbox"/>		SHELTER <input type="checkbox"/> ANALYZER ROOM <input checked="" type="checkbox"/> CABINET <input type="checkbox"/> (Analyzer House No UNIT 900)	
MEASURING PRINCIPLE: TCD/FID		P&ID NO.: 90-0-PR-0116	
PROCESS DATA:			
PRESS. @ SAMPLE POINT (BARA):	MIN. 5.3	NORM. 5.6	MAX. 9
PRESS. @ RETURN POINT (BARA):	MIN. 3.6	NORM. 3.6	MAX. 3.6
TEMP. (°C):	MIN. 192	NORM. 192	MAX. 218
DENSITY: KG/M³ 692	VISCOSITY: mPas		BOILING POINT: °C:
STATE OF AGGREGATION: LIQUID		CORROSIVE COMPONENTS: NONE	

ACCURACY : <2% RANGE		ZERO/END POINT STABILITY: <2% RANGE PER MONTH	
MEASURING RANGE: SEE TABLE BELLOW		OPERATING:	
AREA CLASSIFICATION: ZONE 2, IIC, T3		WETTED PARTS MATERIAL: 316 SS	
HOUSING PROTECTION: IP 65		LOCAL READ OUT:	
AUTO. TEMP. COMPENSATION: YES		OUTPUT SIGNAL: GC NETWORK WITH MODBUS LINK TO DCS	
AUTO. ZERO/SPAN ADJ.: YES		TRANSMITTER: 4-20 mA SMART <input type="checkbox"/> FOUND. FIELD BUS <input type="checkbox"/>	
CABLE ENTRY: M20X1.5 <input checked="" type="checkbox"/> 1/2" NPTF <input type="checkbox"/>			
POWER SUPPLY: 24 VDC <input type="checkbox"/> 110 VAC 50HZ <input checked="" type="checkbox"/>			
POWER CONSUMPTION VTA		UTILITY REQUIREMENT:	
SCOPE OF SUPPLY & MODEL NO.: •			
SENSOR/TRANSMITTER <input checked="" type="checkbox"/>	PURGING SYSTEM <input checked="" type="checkbox"/>	SAMPLE PRECONDITIONING <input checked="" type="checkbox"/>	SAMPLE PROBE <input checked="" type="checkbox"/>
TEST & CALIBRATION MEDIUM <input checked="" type="checkbox"/>	ANA. HOUSE <input checked="" type="checkbox"/>	CABLE TO CONTROL ROOM <input type="checkbox"/>	AIR CONDITIONING UNIT <input checked="" type="checkbox"/>

SAMPLE COMPOSITION .			MEASUREMENT	UNIT
1	EB	0	0-100	Vol-ppm
2	PDEB	98.15		
3	C11+ARO	1.6		
4	PX	10	0-100	Vol-ppm
5	MX	10	0-200	Vol-ppm
6	OX	40	0-500	Vol-ppm
7	C9+ARO	0.12		
8				
9				

NOTE :

1- DISTANCE FROM SAMPLE POINT IN FIELD TO ANALYZER HOUSE IS EQUAL WITH 60 METERS.

NOTES:

VTA : VENDOR TO ADVISE

• : MANUFACTURER / MODEL NO.: FISHER ROSEMOUNT / GCX



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		INSTRUMENT DATA SHEET GAS CHROMATOGRAPHY DOC. NO. : 90-DSH-IN-613	

TAG NO. : AT 90018B

See Note 1

SERVICE: RAFFINATE COLUMN BOTTOM SAMPLING			
SAMPLE TAKEN FROM: OUTLET E-9007		SAMPLE RETURN TO: TO OUTLET E-9007	
NO. OF STREAMS: ONE			
INSTALLATION: LOCAL <input type="checkbox"/>		SHELTER <input type="checkbox"/>	
		ANALYZER ROOM <input checked="" type="checkbox"/> CABINET <input type="checkbox"/> (Analyzer House No UNIT 900)	
MEASURING PRINCIPLE: TCD/FID		P&ID NO.: 90-0-PR-0116	
PROCESS DATA:			
PRESS.@ SAMPLE POINT(BARA):	MIN. 5.3	NORM. 5.6	MAX. 9
PRESS.@ RETURN POINT(BARA):	MIN. 3.6	NORM. 3.6	MAX. 3.6
TEMP. (°C):	MIN. 192	NORM. 192	MAX. 218
DENSITY: KG/M³ 692	VISCOSITY: mPas		BOILING POINT: °C:
STATE OF AGGREGATION: LIQUID		CORROSIVE COMPONENTS: NONE	

ACCURACY : <2%RANGE		ZERO/END POINT STABILITY: <2% RANGE PER MONTH	
MEASURING RANGE: SEE TABLE BELLOW		OPERATING:	
AREA CLASSIFICATION: ZONE 2,IIC ,T3		WETTED PARTS MATERIAL: 316 SS	
HOUSING PROTECTION: IP 65		LOCAL READ OUT:	
AUTO. TEMP. COMPENSATION: YES		OUTPUT SIGNAL: GC NETWORK WITH MODBUS LINK TO DCS	
AUTO. ZERO/SPAN ADJ.: YES		TRANSMITTER: 4-20 mA SMART <input type="checkbox"/> FOUND. FIELD BUS <input type="checkbox"/>	
CABLE ENTRY: M20X1.5 <input checked="" type="checkbox"/> 1/2" NPTF <input type="checkbox"/>			
POWER SUPPLY: 24 VDC <input type="checkbox"/> 110 VAC50HZ <input checked="" type="checkbox"/>			
POWER CONSUMPTION VTA		UTILITY REQUIREMENT:	
SCOPE OF SUPPLY & MODEL NO.: •			
SENSOR\TRANSMITTER <input checked="" type="checkbox"/>	PURGING SYSTEM <input checked="" type="checkbox"/>	SAMPLE PRECONDITIONING <input checked="" type="checkbox"/>	SAMPLE PROBE <input checked="" type="checkbox"/>
TEST & CALIBRATION MEDIUM <input checked="" type="checkbox"/>	ANA. HOUSE <input checked="" type="checkbox"/>	CABLE TO CONTROL ROOM <input type="checkbox"/>	AIR CONDITIONING UNIT <input checked="" type="checkbox"/>
SAMPLE COMPOSITION .	MEASUREMENT	UNIT	NOTES: VTA : VENDOR TO ADVISE • : MANUFACTURER / MODEL NO.: FISHER ROSEMOUNT / GCX
1 EB 0			
2 PDEB 98.15	0-100	Vol %	
3 C11+ARO 1.6	0-3	Vol %	
4 PX 10			
5 MX 10			
6 OX 40			
7 C9+ARO 0.12	0-1	Vol-%	
8			
9			



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- 5-9 PETROCHEMICAL INDUSTRIES DESIGN ENGINEERING CO PROJ. NO. : 1171		THIRD AROMATICS PLANT	
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NOTE :

1- DISTANCE FROM SAMPLE POINT IN FIELD TO ANALYZER HOUSE IS EQUAL WITH 60 METERS.

TAG NO. : AT 90026A

See Note 1

SERVICE: PURIFICATION COLUMN FEED SAMPLING			
SAMPLE TAKEN FROM: INLET E-9007		SAMPLE RETURN TO: E-9003	
NO. OF STREAMS: ONE			
INSTALLATION: LOCAL <input type="checkbox"/>		SHELTER <input type="checkbox"/>	
		ANALYZER ROOM <input checked="" type="checkbox"/> CABINET <input type="checkbox"/> (Analyzer House No UNIT 900)	
MEASURING PRINCIPLE: TCD/FID		P&ID NO.: 90-0-PR-0122	
PROCESS DATA:			
PRESS.@ SAMPLE POINT(BARA):	MIN. 6.9	NORM. 7.6	MAX. 11.2
PRESS.@ RETURN POINT(BARA):	MIN. 4.8	NORM. 4.8	MAX. 4.8
TEMP. (°C):	MIN. 124	NORM. 124	MAX. 124
DENSITY: KG/M ³ 774	VISCOSITY: mPas		BOILING POINT: °C:
STATE OF AGGREGATION: LIQUID		CORROSIVE COMPONENTS: NONE	

ACCURACY : <2%RANGE		ZERO/END POINT STABILITY: <2% RANGE PER MONTH	
MEASURING RANGE: SEE TABLE BELLOW		OPERATING:	
AREA CLASSIFICATION: ZONE 2,IIC ,T3		WETTED PARTS MATERIAL: 316 SS	
HOUSING PROTECTION: IP 65		LOCAL READ OUT:	
AUTO. TEMP. COMPENSATION: YES		OUTPUT SIGNAL: GC NETWORK WITH MODBUS LINK TO DCS	
AUTO. ZERO/SPAN ADJ.: YES		TRANSMITTER: 4-20 mA SMART <input type="checkbox"/> FOUND. FIELD BUS <input type="checkbox"/>	
CABLE ENTRY: M20X1.5 <input checked="" type="checkbox"/> 1/2" NPTF <input type="checkbox"/>			
POWER SUPPLY: 24 VDC <input type="checkbox"/> 110 VAC50HZ <input checked="" type="checkbox"/>			
POWER CONSUMPTION VTA		UTILITY REQUIREMENT:	
SCOPE OF SUPPLY & MODEL NO.: •			
SENSOR\TRANSMITTER <input checked="" type="checkbox"/>	PURGING SYSTEM <input checked="" type="checkbox"/>	SAMPLE PRECONDITIONING <input checked="" type="checkbox"/>	SAMPLE PROBE <input checked="" type="checkbox"/>
TEST & CALIBRATION MEDIUM <input checked="" type="checkbox"/>	ANA. HOUSE <input checked="" type="checkbox"/>	CABLE TO CONTROL ROOM <input type="checkbox"/>	AIR CONDITIONING UNIT <input checked="" type="checkbox"/>
SAMPLE COMPOSITION .		MEASUREMENT	
		UNIT	
1	PX	98.77	
2	TOL	1.44	
3	MX	1099	0-2000 Vol-ppm
4	OX	589	0-2000 Vol-ppm
5	EB	996	0-2000 Vol-ppm
NOTES:			
VTA : VENDOR TO ADVISE			
• : MANUFACTURER / MODEL NO.: FISHER ROSEMOUNT / GCX			



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6	PDEB	50		Vol-ppm
7	C9 + AROMATICS	200		Vol-ppm
8	WATER	58		Vol-ppm
9				

NOTE :

- 1- DISTANCE FROM SAMPLE POINT IN FIELD TO ANALYZER HOUSE IS EQUAL WITH 70 METERS.
- 2- SAMPLE FLUID FOR AT-90026 HAS TENDENCY TO SOLIDIFICATION AT TEMPERATURES BELOW 20 DEG C , AND NEED ELECTRICAL TRACING .

TAG NO. : AT 90026B

See Note 1

SERVICE: PURIFICATION COLUMN FEED SAMPLING			
SAMPLE TAKEN FROM: INLET E-9007		SAMPLE RETURN TO: E-9003	
NO. OF STREAMS: ONE			
INSTALLATION: LOCAL <input type="checkbox"/>		SHELTER <input type="checkbox"/>	
		ANALYZER ROOM <input checked="" type="checkbox"/> CABINET <input type="checkbox"/> (Analyzer House No UNIT 900)	
MEASURING PRINCIPLE: TCD/FID		P&ID NO.: 90-0-PR-0122	
PROCESS DATA:			
PRESS.@ SAMPLE POINT(BARA):	MIN. 6.9	NORM. 7.6	MAX. 11.2
PRESS.@ RETURN POINT(BARA):	MIN. 4.8	NORM. 4.8	MAX. 4.8
TEMP. (°C):	MIN. 124	NORM. 124	MAX. 124
DENSITY: KG/M ³ 774	VISCOSITY: mPas		BOILING POINT: °C:
STATE OF AGGREGATION: LIQUID		CORROSIVE COMPONENTS: NONE	

ACCURACY : <2%RANGE		ZERO/END POINT STABILITY: <2% RANGE PER MONTH	
MEASURING RANGE: SEE TABLE BELLOW		OPERATING:	
AREA CLASSIFICATION: ZONE 2,IIC ,T3		WETTED PARTS MATERIAL: 316 SS	
HOUSING PROTECTION: IP 65		LOCAL READ OUT:	
AUTO. TEMP. COMPENSATION: YES		OUTPUT SIGNAL: GC NETWORK WITH MODBUS LINK TO DCS	
AUTO. ZERO/SPAN ADJ.: YES		TRANSMITTER: 4-20 mA SMART <input type="checkbox"/> FOUND. FIELD BUS <input type="checkbox"/>	
CABLE ENTRY: M20X1.5 <input checked="" type="checkbox"/> 1/2" NPTF <input type="checkbox"/>			
POWER SUPPLY: 24 VDC <input type="checkbox"/> 110 VAC50HZ <input checked="" type="checkbox"/>			
POWER CONSUMPTION VTA		UTILITY REQUIREMENT:	
SCOPE OF SUPPLY & MODEL NO.: •			
SENSOR\TRANSMITTER <input checked="" type="checkbox"/>	PURGING SYSTEM <input checked="" type="checkbox"/>	SAMPLE PRECONDITIONING <input checked="" type="checkbox"/>	SAMPLE PROBE <input checked="" type="checkbox"/>
TEST & CALIBRATION MEDIUM <input checked="" type="checkbox"/>	ANA. HOUSE <input checked="" type="checkbox"/>	CABLE TO CONTROL ROOM <input type="checkbox"/>	AIR CONDITIONING UNIT <input checked="" type="checkbox"/>
SAMPLE COMPOSITION .	MEASUREMENT	UNIT	NOTES:
1 PX 98.77	0-100	Vol-%	VTA : VENDOR TO ADVISE



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2	TOL	1.44	0-2	Vol-%
3	MX	1099		
4	OX	589		
5	EB	996		
6	PDEB	50		
7	C9 + AROMATICS	200		
8	WATER	58		
9				

• : MANUFACTURER / MODEL NO.: FISHER ROSEMOUNT / GCX

NOTE :

- 1- DISTANCE FROM SAMPLE POINT IN FIELD TO ANALYZER HOUSE IS EQUAL WITH 70 METERS.
- 2- SAMPLE FLUID FOR AT-90026 HAS TENDENCY TO SOLIDIFICATION AT TEMPERATURES BELOW 20 DEG C , AND NEED ELECTRICAL TRACING .

TAG NO. : AT 90026C

See Note 1

SERVICE: PURIFICATION COLUMN FEED SAMPLING			
SAMPLE TAKEN FROM: INLET E-9007		SAMPLE RETURN TO: E-9003	
NO. OF STREAMS: ONE			
INSTALLATION: LOCAL <input type="checkbox"/>		SHELTER <input type="checkbox"/>	
		ANALYZER ROOM <input checked="" type="checkbox"/> CABINET <input type="checkbox"/> (Analyzer House No UNIT 900)	
MEASURING PRINCIPLE: TCD/FID		P&ID NO.: 90-0-PR-0122	
PROCESS DATA:			
PRESS.@ SAMPLE POINT(BARA):	MIN. 6.9	NORM. 7.6	MAX. 11.2
PRESS.@ RETURN POINT(BARA):	MIN. 4.8	NORM. 4.8	MAX. 4.8
TEMP. (°C):	MIN. 124	NORM. 124	MAX. 124
DENSITY: KG/M ³ 774	VISCOSITY: mPas		BOILING POINT: °C:
STATE OF AGGREGATION: LIQUID		CORROSIVE COMPONENTS: NONE	

ACCURACY : <2%RANGE	ZERO/END POINT STABILITY: <2% RANGE PER MONTH
MEASURING RANGE: SEE TABLE BELLOW	OPERATING:
AREA CLASSIFICATION: ZONE 2,IIC ,T3	WETTED PARTS MATERIAL: 316 SS
HOUSING PROTECTION: IP 65	LOCAL READ OUT:
AUTO. TEMP. COMPENSATION: YES	OUTPUT SIGNAL: GC NETWORK WITH MODBUS LINK TO DCS
AUTO. ZERO/SPAN ADJ.: YES	TRANSMITTER: 4-20 mA SMART <input type="checkbox"/> FOUND. FIELD BUS <input type="checkbox"/>
CABLE ENTRY: M20X1.5 <input checked="" type="checkbox"/> 1/2" NPTF <input type="checkbox"/>	
POWER SUPPLY: 24 VDC <input type="checkbox"/> 110 VAC50HZ <input checked="" type="checkbox"/>	
POWER CONSUMPTION VTA	UTILITY REQUIREMENT:
SCOPE OF SUPPLY & MODEL NO.: •	



OWNER :
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SENSOR\TRANSMITTER <input checked="" type="checkbox"/>	PURGING SYSTEM <input checked="" type="checkbox"/>	SAMPLE PRECONDITIONING <input checked="" type="checkbox"/>	SAMPLE PROBE <input checked="" type="checkbox"/>
TEST & CALIBRATION MEDIUM <input checked="" type="checkbox"/>	ANA. HOUSE <input checked="" type="checkbox"/>	CABLE TO CONTROL ROOM <input type="checkbox"/>	AIR CONDITIONING UNIT <input checked="" type="checkbox"/>

SAMPLE COMPOSITION .	MEASUREMENT	UNIT	NOTES:
1 PX	98.77	Vol-%	VTA : VENDOR TO ADVISE •: MANUFACTURER / MODEL NO.: FISHER ROSEMOUNT / GCX
2 TOL	1.44	Vol-%	
3 MX	1099		
4 OX	589		
5 EB	996		
6 PDEB	50	0-200	
7 C9 + AROMATICS	200		
8 WATER	58		
9			

NOTE :

- 1- DISTANCE FROM SAMPLE POINT IN FIELD TO ANALYZER HOUSE IS EQUAL WITH 70 METERS.
- 2- SAMPLE FLUID FOR AT-90026 HAS TENDENCY TO SOLIDIFICATION AT TEMPERATURES BELOW 20 DEG C , AND NEED ELECTRICAL TRACING .