



PETROCHEMICAL INDUSTRIES
DESIGN & ENGINEERING CO.
PROJ. NO. : 1175

mg engineering
Lurdi

PROJ.NO:69666-01

4 TH METHANOL PLANT

COVER SHEET



OWNER

ZAGROS PETROCHEMICAL
COMPANY (ZPC)
PROJ. NO. : 40404277

DOCUMENT TITLE :

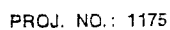
DATA SHEET
FLARE VALVE

DOCUMENT NO : P-1175-DSH-IN-649

TOTAL PAGES : 2
(EXCLUDING COVER SHEET)

REV.	DATE	DESCRIPTION	PREPARED	APPROVED	PROJECT
2	25.11.03	AFC (LURGI'S COMMENT INCORPORATED)	M.GH	S.Ehtemam	M.Masoudi
1	20.10.2003	APPROVED FOR CONSTRUCTION	M.GH	S.Ehtemam	M.Masoudi

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REVISION INDEX SHEET

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PETROCHEMICAL INDUSTRIES DESIGN & ENGINEERING CO.		4TH METHANOL PROJECT FLARE VALVE		OWNER: ZAGROS PETROCHEMICAL COMPANY (ZPC) PROJECT NO:40404277			
PROJ. NO. : 1175		PROJ. NO.: 69866-01		DOC. NO. : P-1175-DSH-IN-649		2	

TAG NO: PV-101331							
1 FLUID: REFORMED GAS/GAS				CRIT. PRESS (PC)		BAR (ABS)	
				UNITS	CASE 3	CASE 2	CASE 1
							SHUT OFF
							CASE 4
2 FLOW RATE				Sm ³ /hr	600000	560462	70000
3 INLET PRESSURE				BAR (ABS)	32	32	32
4 DP. PRESSURE				BAR	29	29	29
5 INLET TEMPERATURE				° C	70	70	40
6 SPEC. WT/SPEC GRAVITY/MOL WT					11.722	11.722	11.722
7 VISCOSITY/SPEC HEAT RATIO				mPas	0.015	0.015	0.015
8 VAPOR PRESSURE PV				BARA			
9 *REQUIRED CV							
10 *TRAVEL				%			
11 ALLOWABLE/ *PREDICTED SPL				dBA	100/	100/	100/
12 COMPRESSIBILITY Z					1.0043	1.0043	1.0043
K=Cp/Cv= 1.373 DENSITY kg/Sm ³ @ Ope.Cond.					0.5	0.5	0.52
13 PIPE LINE SIZE& WALL TH				16"/9.53	53 *TYPE PNEUMATIC / PISTON		
14 THICKNESS (mm) OUT				16"/9.53	54 *MFR. & MODEL		
15 PIPE LINE INSULATION /SPEC.				/NB1	55 * SIZE EFF AREA		
16 * TYPE AXIAL FLOW CONTROL VALVE					56 ON/OFF MODULATING YES		
17 * SIZE 16" ANSI CLASS 300# / RF					57 SPRING ACTION OPEN /CLOSE CLOSE		
18 DESIGN PRESS./TEMP. 39 BARG/ 150° C					58 *MAX ALLOWABLE PRESSURE		
19 *MFR. & MODEL MOKVELD/RZD-RQX					59 *MIN ALLOWABLE PRESSURE		
20 *BODY/BONNET MATL. A487 GR.CA6					60 AVAILABLE AIR SUPPLY PRESSURE:		
21 *LINER MATERIAL/ID					61 MAX. 6 BARG MIN. 4 BARG		
22 END IN FLANGED					62 *BENCH RANGE		
23 CONNECTION OUT FLANGED					63 ACT ORIENTATION		
24 FLG FACE FINISH ANSI 300 # RF					64 HANDWHEEL TYPE NO		
25 END EXT/MATL.					65 AIR FAILURE VALVE SET AT		
26 *FLOW DIRECTION OPEN					66 OPENING TIME<=1 SEC,STROKE TIME:<2 SEC		
27 *TYPE OF BONNET STD					67 INPUT SIGNAL		
28 LUBE & ISO VALVE NO					68 *TYPE HART /SMART		
29 *PACKING MAT. PTFE RING					69 *MFR. & MODEL 3780-100		
30 *PACKING TYPE					70 *ON INCR SIGNAL OUTPUT INCR/DECR		
31					71 GAUGES BY-PASS		
32 *TYPE PARABOLIC					72 *CAM CHARACTERISTIC		
33 *SIZE 16" RATED TRAVEL					73 AIR SUPPLY PRESSURE MAX.:9 BARG		
34 CHARACTERISTIC LINEAR					74 TYPE PROXIMITY NAMUR EEXI QUANTITY 2		
35 *BALANCED/UNBALANCED					75 *MFR. & MODEL P&F/NJ5-18GK-SN		
36 *RATED CV 2880 FL XT					76 CONTACT/RATING 24 V DC/EEXIa ,IIC ,T4		
37 *PLUG/BALL/DISK MATERIAL 316LSS(STELLITED)					77 ACTUATION POINTS OPEN/CLOSE		
38 *SEAT MATERIAL 316LSS(STELLITED)					78 TAG NO: PZSH/PZSL-101331		
39 *CAGE/GUIDE MATERIAL					79 *MFR. & MODEL FISHER/NORGREN /95H/B66-1"		
40 *STEM MAT. 316LSS					80 *SET PRESSURE		
41 PLUG SEALING METALLIC/316LSS					81 FILTER YES GAUGE YES		
42 RANGEABILITY: 50:1					82		
43 SOLENOID VALVE: YES ☒ NO ☐					83 *HYDRO PRESURE		
44 MANUAL RESET: YES ☐ NO ☐					84 ANSI/FCI LEAKAGE CLASS V (IEC 534.4)		
45 TAG NO. PY-101331A,B					85		
46 HERION:24011 47 4280 /24VDC/EEXD					86		
47 FUSIBLE LINKAGE YES ☐ NO ☒					PID NO: 113		
48 BLOCK RELAY YES ☒ NO ☐					LINE NO: RFG-10-13-019		
49 BOOSTER YES ☒ NO ☐							
50 CARTRIDGE YES ☐ NO ☒							
51 PROXIMITY SW. YES ☒ NO ☐							
52 VOLUME TANK YES ☐ NO ☒							

INFORMATION SUPPLIED BY MANUFACTURER UNLESS ALREADY SPECIFIED.

NOTE:.

- | | |
|---|---------------------------------------|
| 1): FAST OPEN ACTION REQUIRED IN CASE OF UNIT 200 FAILURE | 4)NOISE BAFFLE PLATE 24" 300# |
| 2): 0.013 MPAS FOR CASE 1 AND 4 | 5)BOOSTER:2625/3/2 WAY VALVE:80367/15 |
| 3): 12.386 KG/KMOL FOR CASE 1 AND 4 | 6)JUNCTION BOX:STAHL/8146/2041 |
| | 7)HYDRAULIC UNIT:F2/VO-NW15 |
| | 8)HYDRAULIC CYLINDER:MOKVELD |