



REMARKS:  
ALL PRESSURES ARE GAUGE  
IF NOT STATED OTHERWISE.

P-1002 A BOILER FEED WATER PUMP		P-1002 A/E/1A COOLER MECH. SEAL	
OPERATING POWER	149.4kw	COOLING SURFACE	0.45 m <sup>2</sup>
OPERATION HEAD	347.8m	DESIGN PRESSURE	10 bar
OPERATING FLOW	121.6m <sup>3</sup> /h	DESIGN TEMPERATURE	160 °C
DESIGN PRESSURE	49 bar	DESIGN PRESSURE	120 bar
DESIGN TEMPERATURE	180 °C	DESIGN TEMPERATURE	160 °C
DESIGN PRESSURE	90 bar		
DESIGN TEMPERATURE	180 °C		

P-1002 A-E-2A COOLER MECH. SEAL	
COOLING SURFACE	0.45 m <sup>2</sup>
DESIGN PRESSURE	10 bar
DESIGN TEMPERATURE	160 °C
DESIGN PRESSURE	120 bar
DESIGN TEMPERATURE	160 °C

PIPING INTERFACES Rohrleitungs-Schnittstellen			
ANSCHLUESSE	CONNECTION	SIZE	CLASS
A	-	-	-
B	SAUGSTUTZEN	SUCTION BRANCH	6" ANSI 300 RF
C	DRUCKSTUTZEN	DISCHARGE BRANCH	3" ANSI 900 RF
D	KESELSEITE (MIND.VENTIL)	BOILER END (AUT. RECIRC. CH. VALVE)	3" ANSI 900 RF
E	MINDESTMENGENSTUTZEN	MINIMUM FLOW BRANCH	1.5" ANSI 900 RF
H	ENTLASTUNGSSTUTZEN	BALANC. LEAK-OFF. BR TO SUCTION TANK	1.5" ANSI 600 RF
J2	SICHERHEITSVENTIL - SAUGLEINTRITT	SAFETY VALVE-SUCTION LINE-INLET	1.5" ANSI 600 RF
J3	SICHERHEITSVENTIL - ENTLAST-AUSTRITT	SAFETY VALVE-BALANCE LINE-BLOW OFF	2" ANSI 150 RF
J3	SICHERHEITSVENTIL - SAUGLAUSTRITT	SAFETY VALVE-SUCTION LINE-BLOW OFF	2" ANSI 150 RF
INSTALL BLOW OFF PIPE ON SITE IN SUCH A WAY AS TO AVOID ANY HAZARDS TO PERSONS			
K	SAMMELLAUF	COLLECTION FUNNEL/ DRAIN RIM	2" R-female
L	ZULAUF KUEHLWASSER	COOLING WATER INLET	1" ANSI 150 RF
M	RUECKLAUF KUEHLWASSER	COOLING WATER OUTLET	1" ANSI 150 RF
N	ENTLEERUNG PUMP-SAUGGEH	DRAINING-PUMP-SUCTION CASING	1" ANSI 600 RF

L = LURGI  
S = SULZER  
D = DRESSER

LOCAL

**engineering Lurgi**

Authorization to proceed does not relieve contractor or vendor of his obligations or liabilities under the contract / purchase order

Date	Signature	Symbol	Dsg.
			A-GEW

A- Proceed  
 B- Proceed, change as noted and resubmit.  
 C- Do not proceed, change as noted and resubmit.  
 D- For information only  
 E- AFC / FINAL

REV.	IF/PS	NAME	DATE	NAME	DATE	STATUS	Kind of Revision
5	B.Hell	16.02.04	B.Hell	16.02.2004	AFC	LIMIT OF SUPPLY CORRECTED	
4	GRZ	26.02.03	B.Hell	29.09.2003	AFC	KKS NUMBER ADDED	
3	GRZ	03.12.02	GS			POSITION OF GLOBE VALVE CHANGE IN COOLING WATER LINE	
2	GRZ	27.11.02	GS			CUSTOMER REMARKS ADDED	
1	GRZ	28.10.02	GS			KKS NUMBER ADDED	

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VERTRAGSPARTNER/CONTRACTOR:	LURGI OR GAS CHEMIE GAMBH
KD.-BESTELL-NR./CO. ORDER NO.:	-
EDKUNDE/BETREIBER/END USER:	ZAGROS
ANLAGE/PLANT:	MEGA METHANOL IRAN
AUFSTELLUNGSORT/SITE:	BANDAR ASSALUYEH (IRAN)
POST.-NR./IT. NO.:	P-1002 A
SULZER- EQUIPMENT-NR/ EQUIPMENT NO.:	203901
SULZER AUFTRAGS-NR/ SULZER ORDER NO.:	101341-150
SET PART LIST	YES/NO DESIGN GROUP.
REPLACED BY	SUBSTITUTE FOR.
ORIGINAL SCALE	
MC 80-260/4	
Mega Methanol Iran	
101341-150	
CAD - DRAWING	PART- NO.
SULZER	E 1-A.4330.199
ZAGROS PETROCHEMICAL COMPANY	OWNER: NATIONAL PETROCHEMICAL COMPANY ZAGROS PETROCHEMICAL COMPLEX
DISPOSITION:	PROJECT: 4 <sup>th</sup> METHANAOL PROJECT
<input type="checkbox"/> NO COMMENT	OWNER: CONTRACTOR: DWG. NO. DIG-RE-021
<input type="checkbox"/> COMMENTS AS MARKED, FABRICATION CAN PROCEED ACCORDINGLY. REVISED DOCT TO BE ISSUED EITHER FOR REVIEW OR AS FINAL CERTIFIED. HOWEVER ZAGROS WILL CHECK THIS REVISED DOCUMENT FOR PROPER INCORPORATION.	CONTRACTOR: PETROCHEMICAL INDUSTRIES DESIGN & ENGINEERING COMPANY
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SIGNATURE	DATE
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	PIDEC PROJ. NO. 1175
Scale:	Original Size:
Nomination:	P-1002 A
Basic document:	DCC DG DL-NO. P&I DIAGRAM SHEET 122
Job name:	Mega Methanol Iran
IT-Ident-No.:	169666-01