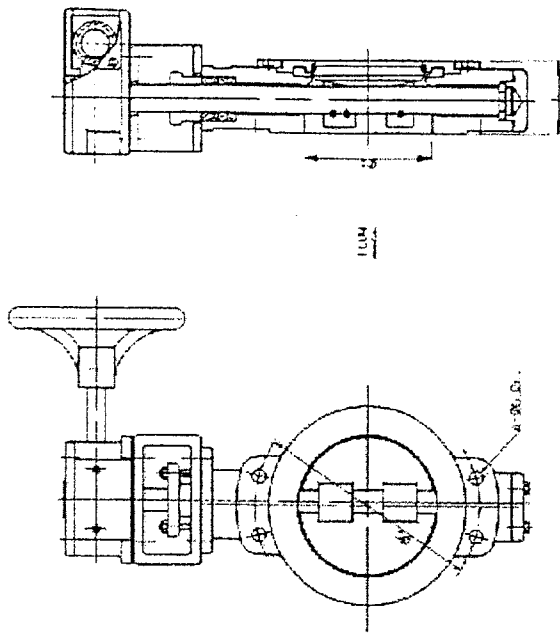


INSPECTION REPORT

(DIN EN 10204 / 3.1B)

Lurgi P.O. Letter No.	4553015-006 / 1.69666 / 136		
ITEM / ID No.	00130 / A310 G		
MATERIAL	BODY : A216-WCB	DISC : A351-CF8	SEAT : RTFE
Client	Lurgi Oel Gas Chemie GmbH		
Lurgi Contract No.	1.69666-10-GEM		
Project Title	Mega Methanol Plant, Zagros Petrochemical Co., Site Bandar Assaluyeh, Iran		
VENDOR	KLAUS UNION ARMATUREN INTERNATIONAL		
DATE	23. 02. 2004		
DESCRIPTION	BUTTERFLY VALVE 150LB 6"		
Q'TY	8 EA		

[illegible]

REMARK

WITNESS BY

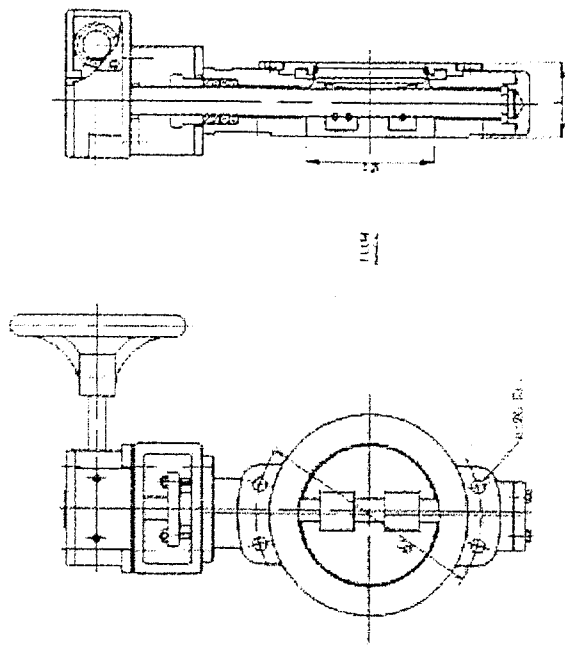
EXG'R IN CHARGE

KU-F-066

KLAUS UNION ARMATUREN INTERNATIONAL.

INSPECTION RECEPTION CERTIFICATE
(DIN EN 10204 / 3.1B)

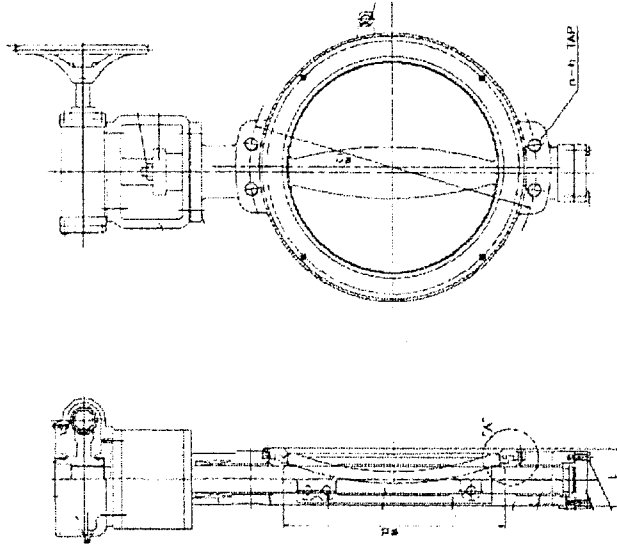
Lurgi P.O. Letter No.	4553015-006 / 1.69666 / 136		
ITEM / ID NO.	00140 / A310 G		
MATERIAL	BODY : A216-WCB	DISC : A351-CF8M	SEAT : RTFE
Client	Lurgi Oel Gas Chemie GmbH		
Lurgi Contract No.	1.69666-10-GEM		
Project Title	Mega Methanol Plant, Zagros Petrochemical Co., Site Bandar Assaluyeh, Iran		
VENDOR	KLAUS UNION ARMATUREN INTERNATIONAL		
DATE	23. 02. 2004.		
DESCRIPTION	BUTTERFLY VALVE 150LB 8"		
Q'TY	2 EA		



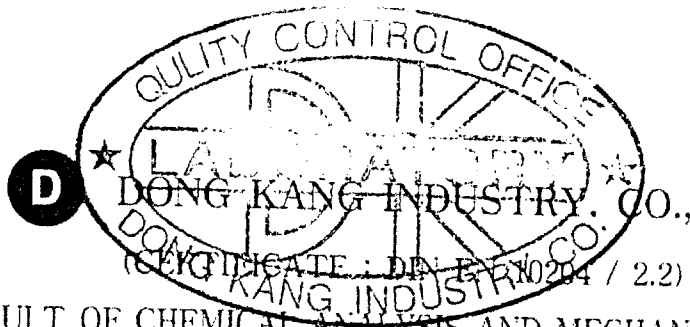
NO	VISUAL	DIMENSION CHECK UNIT (mm)						HYDRAULIC TEST		ASSEMBLY TEST WITH OPERATING	RESULT
		L	Ød	ØC	n-Øh	Charge No.		BODY	SEAT		
STANDARD	(MSS-SP-55)	±3.3 60	±2.0 200	±1.5 298.5	8-22		Body	450 PSI	325 PSI		HOLDING TIME BODY : 120SEC SEAT : 120SEC
1	Accepted	61.5	199.7	299.0	"		D1227	Good	Good	Accepted	Good
2	Accepted	61.4	199.7	299.0	"		D1227	Good	Good	Accepted	Good
					***	BLANK					
REMARK											
 											
WITNESS BY										ENG'R IN CHARGE	

INSPECTION REPORT
(DIN EN 10204 / 3.1B)

Lurgi P.O. Letter No.	4553015-006 / 1.69666 / 136		
ITEM / ID NO.	00150 / A310 G		
MATERIAL	BODY : A216-WCB	DISC : A351-CF8M	SEAT : RTFE
Client	Lurgi Oel Gas Chemie GmbH		
Lurgi Contract No.	1.69666-10-GEM		
Project Title	Mega Methanol Plant, Zagros Petrochemical Co., Site Bandar Assaluyeh, Iran		
VENDOR	KLAUS UNION ARMATUREN INTERNATIONAL		
DATE	23. 02. 2004		
DESCRIPTION	BUTTERFLY VALVE 150LB 12"		
Q'TY	4 EA		



NO	VISUAL	DIMENSION CHECK UNIT (mm)						HYDRAULIC TEST		ASSEMBLY TEST WITH OPERATING	RESULT
		L	Ød	ØC	n-Øh	Charge No.		BODY	SEAT		
STANDARD	(MSS-SP-55)	±3.3	±2.0	±1.5				450 PSI	325 PSI		HOLDING TIME BODY : 120SEC SEAT : 120SEC
1	Accepted	78	300	431.8	12-25						
		77.0	300.5	432.0	"			Good	Good	Accepted	Good
2	Accepted	77.2	300.3	432.0	"			Good	Good	Accepted	Good
3	Accepted	77.1	300.3	432.0	"			Good	Good	Accepted	Good
4	Accepted	77.2	300.5	431.9	"			Good	Good	Accepted	Good
					***	BLANK	***				
REMARK											
											
										WITNESS BY <i>R.A. Wadga</i> ENG'R IN CHARGE	



RESULT OF CHEMICAL ANALYSIS AND MECHANICAL TEST

PURCHASER : KLAUS UNION
 PRODUCT : VALVE BODY
 W/M/O NO. : N/A
 MATERIAL : ASTM A216-WCB

REPORT NO. : DKT-2003-12-027
 P.O.(R) NO. : 4553015-(006 1.09006 136)
 DATE : 2003. 12. 27.

CHEMICAL COMPOSITION OF LADLE SAMPLES(%)											HEAT TREATMENT
SPECIFIED VALUE	C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	
CHARGE NO.	MAX 0.30	MAX 0.60	MAX 1.00	MAX 0.040	MAX 0.045	MAX 0.50	MAX 0.50	MAX 0.20	MAX 0.30	MAX 0.03	NORMALIZING
D128	0.018	0.41	0.62	0.022	0.015	0.09	0.30	0.13	0.11	0.008	
D129	0.019	0.40	0.55	0.018	0.018	0.13	0.24	0.11	0.11	0.009	PROCESS
D1227	0.021	0.43	0.60	0.021	0.013	0.10	0.33	0.10	0.08	0.011	
											A.C

MECHANICAL PROPERTIES												
KIND	TENSION							IMPACT			HARD'S	BEND
SPECIFIED VALUE	SPECIMEN			Y.S	T.S	EL	RA	CVN/CUN/			Hb	DEG
	DIAM	G.L	S.A.	MPa	%	Kgf.mv	J	H	Hr			
WIDT	mm									mm ²	MIN	485
CHARGE NO	12.7	50.0	126.6	250	655	22	35	1	2	3	AVG	REMARK
D128				297	552	33	44					
D129	12.7	50.0	126.6	295	550	35	43					
D1227				304	558	29	41					

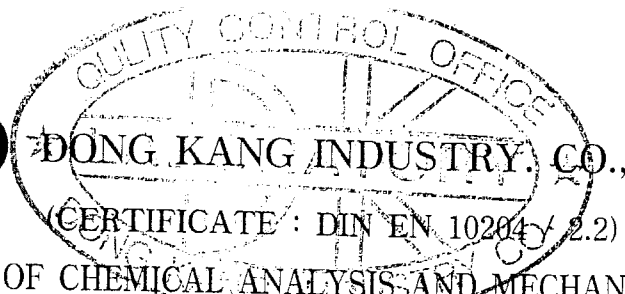
CAST NO	ITEM NAME	QTY	REMARK
D128	6"	4 EA	A310G
D129	6"	4 EA	A310G
D1227	8" / 12"	2 EA / 4 EA	A310G

REMARK :

We here-by certify that the material described here in has been made and tested satisfactorily as above in accordance with the Requirements of the rules and Specifications.

WITNESSED BY

Leengtac
 CHIEF OF Q.C SEC.



DONG KANG INDUSTRY CO.,

(CERTIFICATE : DIN EN 10204 / 2.2)

RESULT OF CHEMICAL ANALYSIS AND MECHANICAL TEST

PURCHASER : KLAUS UNION
PRODUCT : VALVE DISC
W(M)/O NO. : N/A
MATERIAL : ASTM A351-CF8

REPORT NO. : DKT-2003-12-015
P.O.(R) NO. : 4553015-006/1.69666/136
D A T E : 2003. 12. 15.

CHEMICAL COMPOSITION OF LADLE SAMPLES(%)											
CHARGE NO.	SPECIFIED VALUE	C	Si	Mn	P	S	Ni	Cr	Mo	HEAT TREATMENT	
		MAX	MAX	MAX	MAX	MAX	8.0-11.0	18.0-21.0	MAX		
06C02		0.08	2.00	1.50	0.040	0.040	11.0	21.0	0.50	SOLUTION TREATMENT	
		0.053	1.05	0.98	0.021	0.022	9.73	19.51	0.31	PROCESS	
										W.C	

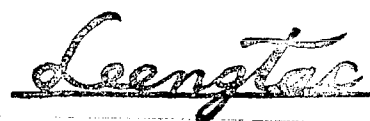
MECHANICAL PROPERTIES																	
CHARGE NO	KIND	TENSION						IMPACT				HARD'S		BEND	REMARK		
		SPECIMEN			Y.S	T.S	EL	R.A	CVN/CUN/				H _B			DEG	
		DIAM	WIDT -H mm	G.L. mm	S.A. mm ²	MPa		%		Kgfm/ J /				H _s			H _R
		MIN				MIN	MIN		AT		°C						
									205	485	35						
		12.7	50.0	126.6					1	2	3	AVG					
06C02		12.7	50.0	126.6	304	508	43	-							-		

CAST NO	ITEM NAME	Q'TY	REMARK
06C02	6"	8 EA	A310G

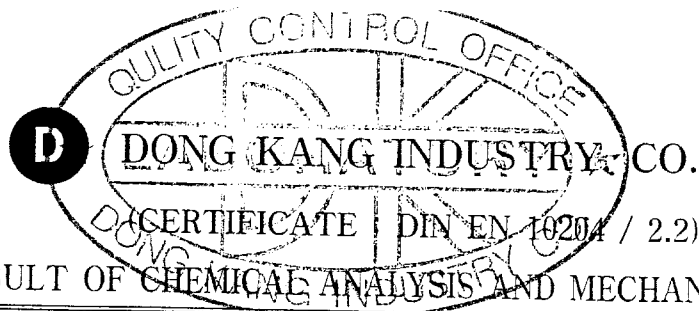
REMARK :

We here-by certify that the material described here in has been made and tested satisfactorily as above in accordance with the Requirements of the rules and Specifications.

WITNESSED BY



CHIEF OF Q.C SEC.



RESULT OF CHEMICAL ANALYSIS AND MECHANICAL TEST

PURCHASER : KLAUS UNION
 PRODUCT : VALVE DISC
 W(M)/O NO. : N/A
 MATERIAL : ASTM A351-CF8M

REPORT NO. : DKT-2003-12-017
 P.O.(R) NO. : 4553015-006/1.69666/136
 D A T E : 2003. 12. 17.

CHEMICAL COMPOSITION OF LADLE SAMPLES(%)											HEAT TREATMENT SOLUTION TREATMENT PROCESS W.C
CHARGE NO.	SPECIFIED VALUE	C	Si	Mn	P	S	Ni	Cr	Mo		
		MAX	MAX	MAX	MAX	MAX	9.0-12.0	18.0-21.0	2.0-3.0		
		0.08	1.50	1.50	0.040	0.040					
D1215		0.067	0.81	0.90	0.014	0.017	11.02	18.58	2.28		
D916		0.056	0.65	0.69	0.026	0.015	10.72	17.52	2.43		

MECHANICAL PROPERTIES															
KIND		TENSION						IMPACT				HARD'S		BEND	REMARK
SPECIFIED VALUE	SPECIMEN			Y.P	T.S	EL	R.A	CVN/CUN/				H _B		DEG	
	DIAM	G.L. mm	S.A. mm ²	MPa		%		Kgf.m/ J /				H _s	H _r		
	WIDT -H mm			MIN	MIN	MIN	-	AT °C							
	12.7			50.0	126.6	205	485	30.0	-	1	2	3	AVG		
D1215	12.7	50.0	126.6	326	548	40	-					-	-	-	
D916	12.7	50.0	126.6	323	545	42	-					-	-	-	

CHARGE NO	ITEM NAME	Q'TY	REMARK
D1215	12"	4 EA	A310G
D916	8"	2 EA	A310G

REMARK :

We here-by certify that the material described here in has been made and tested satisfactorily as above in accordance with the Requirements of the rules and Specifications.

WITNESSED BY

Leengtac

IEF OF Q.C SEC.

Dyneon GmbH & Co. KG, Werk Gendorf
Certified according to DIN EN ISO 9001,
DIN EN ISO 14001, EMAS and OHRIS

Date : 06.01.2004
Page : 1 /1

Dyneon-Qualitätssicherung
Dr. Eberl
Tel.: (08679)7-5959
Fax.: (08679)7-4040
84504 Burgkirchen

Klass Union GmbH
Blumenfeldstrasse 18
D44795 Bochum

I N S P E C T I O N C E R T I F I C A T E
according to EN 10204 - 3.1 B

Product : RTFE
Lot No. : 51B1058
Order No. : DG00024660
Quantity : 800 KG
Delivery date : 06.01.2004

On the lot, of which the consignment is a part, the following values were determined.

characteristic	test method	dimension	value
Bulk density	DIN EN ISO 60	g/l	849
Average particle size	Dyneon 226	µm	443
Shrinkage	ASTM D 1457	% (1/1)	2.8
Gravily	DIN 53479	g/cm ³	2.159
Tensile strength	ASTM D 4894	MPa	34.6
Elongation	ASTM D 4894	% (1/1)	370

The above particulars do not release the customer from the obligation to carry out an inspection of goods received.

Dyneon GmbH
Werk Gendorf

Dr. Eberl
Works inspector

