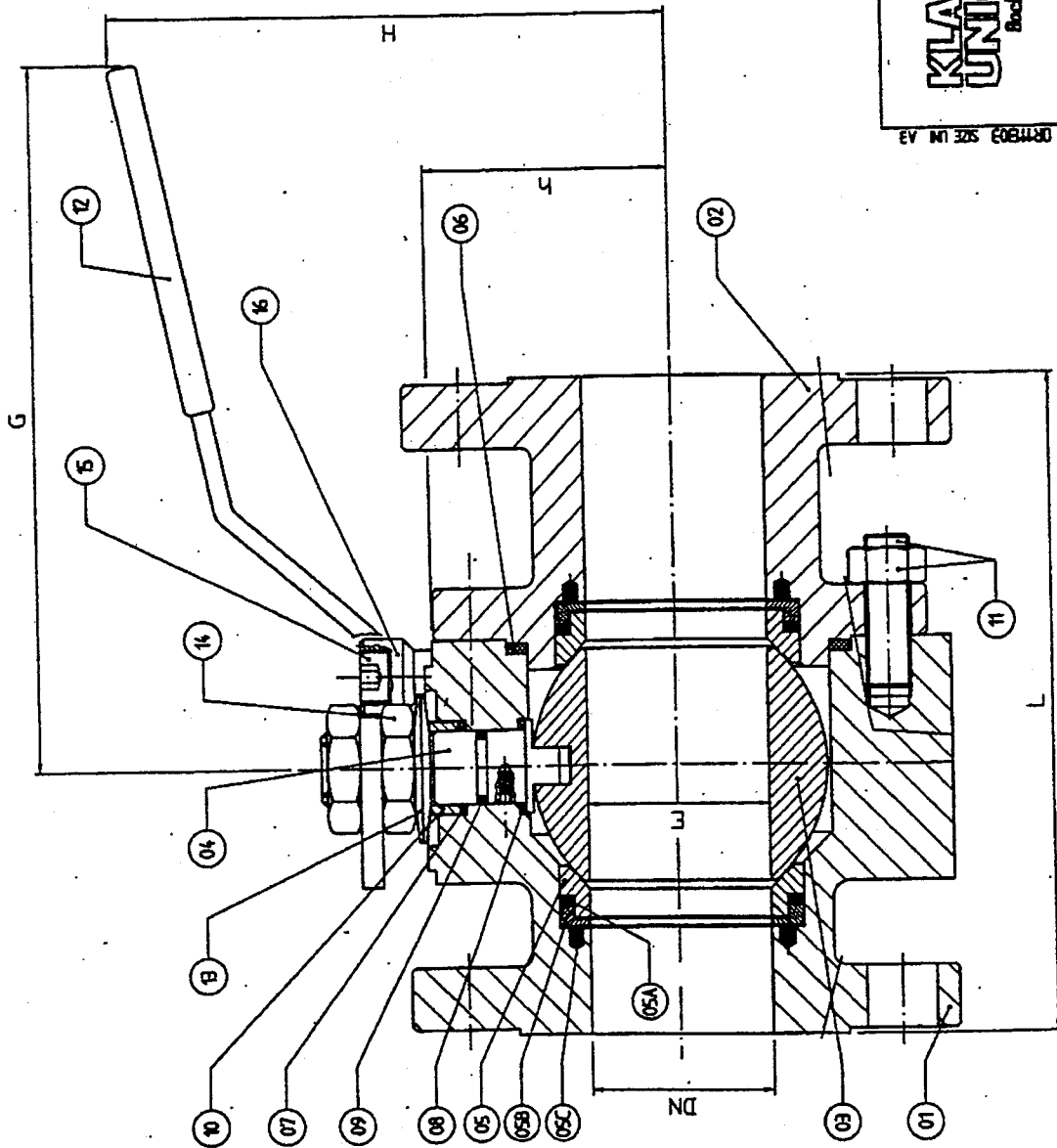


Klaus Union order No: HH-02537
 Drawing ref: ORC-04-1113
 Client: Lurgi AG, Gas Chemie GmbH
 Lurgi Contract No: 169690-10
 Lurgi P.O. No: 4567960-000/169690/136
 Project title: 2nd ZAGROS MEGATHANOL PLANT - RAN



POS.	DESCRIPTION	MATERIAL	NOTE
01	BODY	ASTM A479 type 321	
02	BODY ADAPTER	ASTM A479 type 321	
03	BALL	ASTM A479 type 321	3
04	STEM	ASTM A479 type 321	
05	SEAT	ASTM A479 type 321	3
06A	SEAT GASKET	GRAPHITE	
06B	SEAT RING	ASTM A479 type 321	
06C	SEAT SPRINGS	NICHEL X750	
06	BODY GASKET	GRAPHITE	
07	STEM GASKET	GRAPHITE	
08	STEM GASKET	GRAPHITE	
09	O RING	/	
10	SPACER	ASTM 304	
11	BOLTING	A193 B8C12/ A194 GR8	
12	HANDLE	C.S. ZINC PL. + PVC	
13	CUP SPRINGS	X12CrNi77	
14	STEM NUTS	A4/70	
15	HEX SOCKET HEAD SCREW	A4/70	
16	STOP PIN	ASTM 304	

NOTE:
 3) CHROMIUM CARBIDE COATED
 (**), RECOMMENDED SPARE PARTS
 (***), OPTIONAL SPARE PARTS

ITEM	TAG	DN	E	300	600	G	h	H	ISO	Kg
00010	HK 650	3/4"	19	191	191	166	42	97	F05	7
00020	HK 650	1"	24	246	246	183	48	130	F05	9
00030	HK 650	3"	76	283	283	450	95	277	F10	43

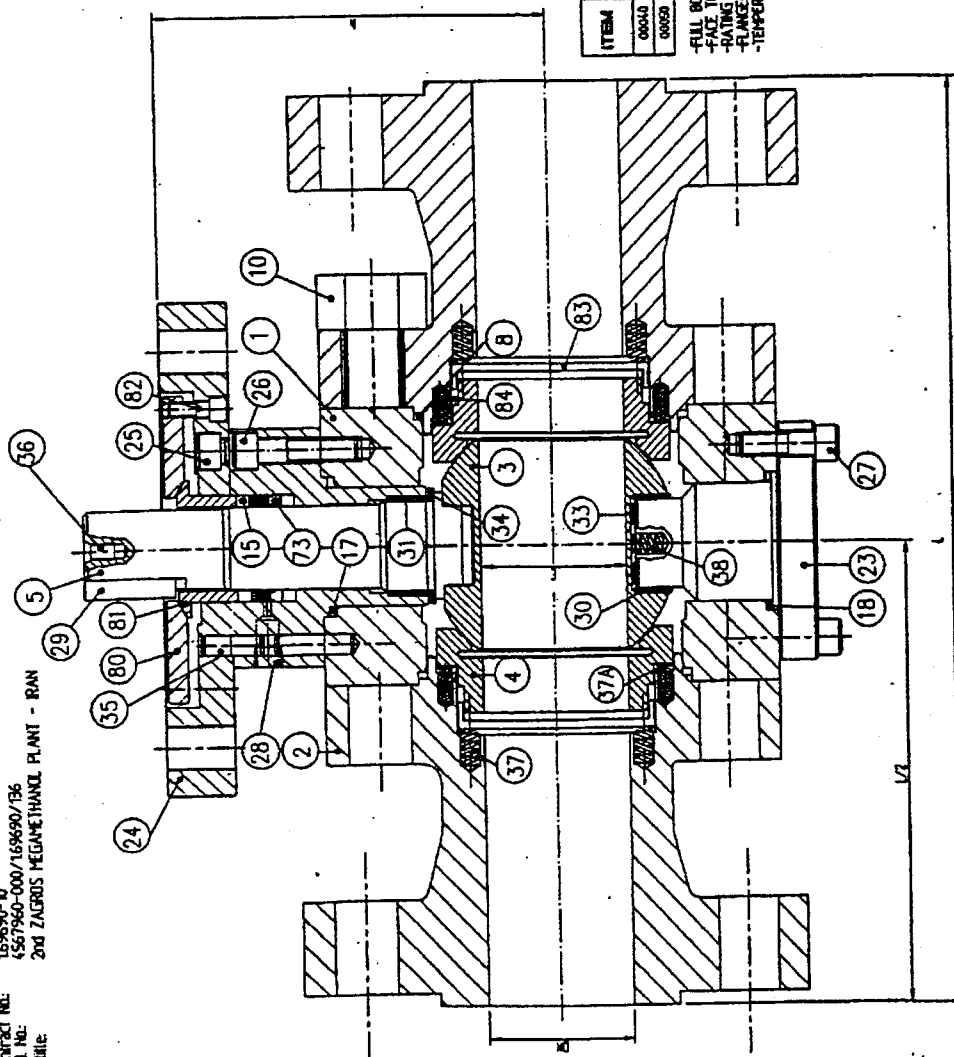
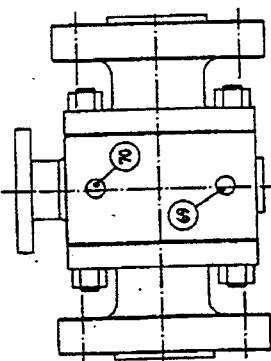
-FULL BORE
 -FACE TO FACE : ASME B16.10 LONG PATTERN
 -RATING : ASME B16.34
 -FLANGE ACC. TO ASME B16.5
 -TEMPERATURE : UP TO 427°C

KLAUS UNION
 Bochum



3	2	1	REV.	DATE	19-11-04	DESCRIPTION	PAUSED	SCALE	1:1	DATE	22-11-04
MATERIAL			GENERAL TOLERANCES			GENERAL REQUIREMENTS			UN ISO 468 - RA3.2		
VALVE TYPE			SIZE			CLASS			UN ISO 2768 - MK		
PART NAME			ASSEMBLY DRAWING			DRAWING N°			REV.		
04.1.01			6.1.01			0.1					

Klaus Union order No: HH-02537
 Skerova ref: OKC-04-1113
 Client: LURG DEL GAS CHEME GH8H
 Lurg Contract No: 169690-10
 Lurg P.O. No: 4567960-000/169690/136
 Project title: 2nd ZAGROS MEGANEHAKH PLANT - RAN

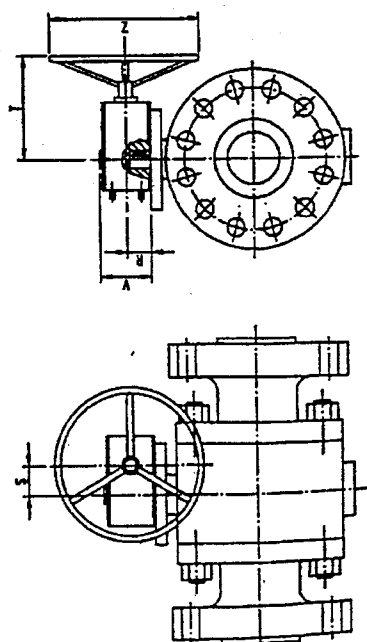


GEAR DIMENSIONS									
ITEM	TAG	DN	E	L	H	R	B	T	V
00040	HK 650	3"	74	366	230	50	86	350	105
00050	HK 650	4"	102	432	255	50	84	350	105
									55

FULL BORE
 -FACE TO FACE: ASME 06.10 LONG PATTERN
 -RATING: ASME B16.34
 -PLATE: ALL TO ASME B16.34
 -TEMPERATURE: UP TO 427°C

POS	DESCRIPTION	MATERIAL
01	BODY	ASTM A179 321
02	CLOSURE	ASTM A179 321
03	BALL	A179 321 + CHROMIUM CARBIDE
04	SEAT	A179 321 + CHROMIUM CARBIDE
05	STEM	ASTM A179 321
06	BODY GASKET	GRAPHITE
07	BOLTING	A 193 B8 CL2-A 19A g.a
08	STEM GASKET	GRAPHITE
09	CLAND GASKET	GRAPHITE
10	TRIMMING GASKET	GRAPHITE
11	CLAND PLATE	ASTM A179 321
12	TRIMMING	ASTM A179 321
13	ADAPTER FL	ASTM A179 321
14	ADAPTER FL CAP SCREW	A170
15	CLAND CAP SCREW	A170
16	TRIMMING CAP SCREW	A170
17	STEM GREASE SEAL	ASTM A179 321
18	STEM KEY	C400
19	BALL BEARING	STAINLESS STEEL
20	STEM BEARING	STAINLESS STEEL
21	LOWER THRUST WASHER	STAINLESS STEEL
22	STEM THRUST WASHER	STAINLESS STEEL
23	STOP PINS	C100
24	SEAT SPRINGS	MCNDEL X750
25	SEAT SPRINGS	MCNDEL X750
26	ANTISTATIC DEVICE SPRING	MCNDEL X750
27	DIAM PLUG	ASTM A179 321
28	VENT PLUG	ASTM A179 321
29	LANTERN	ASTM A179 321
30	STEM GASKET FL	ASTM A179 321
31	CLAND PLATE	ASTM A179 321
32	CLAND CAP SCREW	A170
33	GASKET RING	ASTM A179 321
34	SEAT GASKET	GRAPHITE

(*) RECOMMENDED SPARE PARTS



KLAUS UNION
 Bochum

ATCCAD FILE NAME: GRTT801 SIZE: IN A3

REV. 1 REVISION 22-11-04

DATE 19-11-04

DESCRIPTION PASSED

SCALE N.T.S.

MATERIAL /

GENERAL TOLERANCES UN ISO 2768 - MK

VALVE TYPE 13-T

PART NAME ASSEMBLY DRAWING

DRAWING N° 0A/S.00.1.0.1

REV. 1

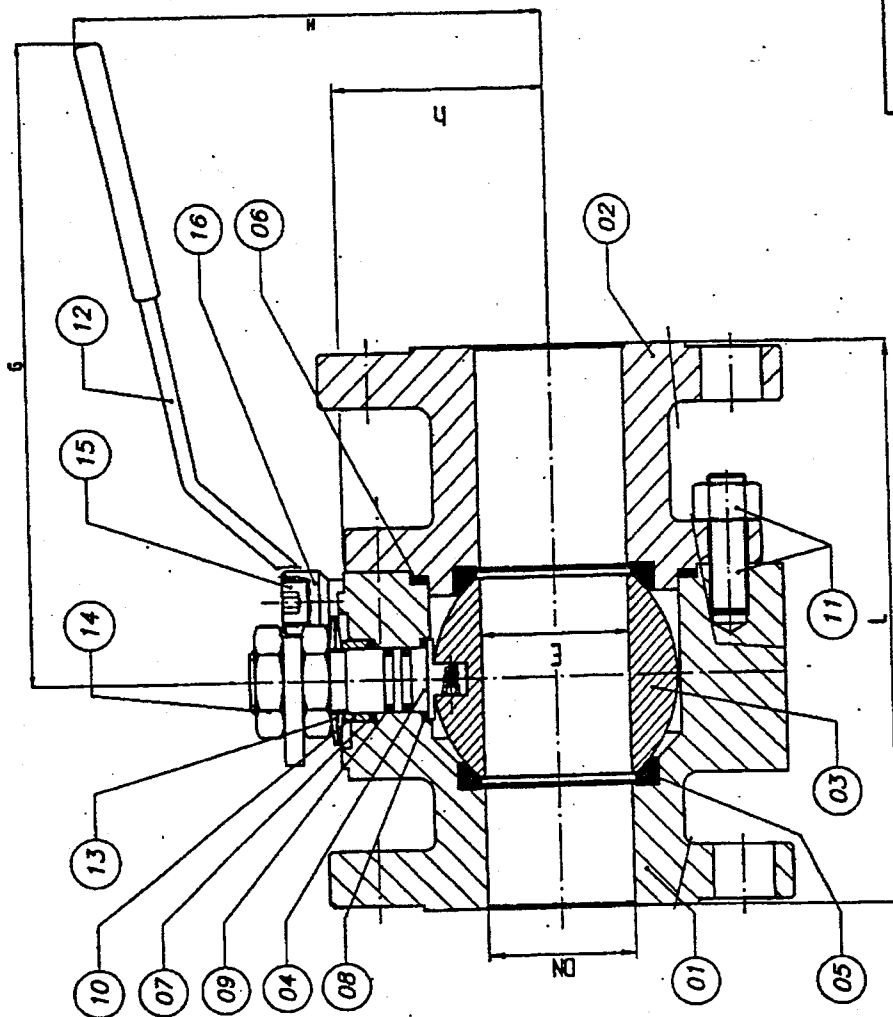
44-02537

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 04-11-13 BY 60322 UCBAW

169690-10

4567960-000/169690/136

2nd ZAGROS MEGAMEIHANUL



POS.	DESCRIPTION	MATERIAL	NOTE
01	BODY	ASTM A105	
02	BODY ADAPTER	ASTM A105	
03	BALL	ASTM A479 316	
04	STEM	ASTM A479 316	
05	SEAT	PITE	
06	BODY GASKET	PITE	
07	STEM GASKET	GRAPHITE	
08	STEM GASKET	PITE	
09	O RING	NITROLE	
10	SPACER	C.S. ZINC PL	
11	BOLTING	A193 B7 - A194 2H	
12	HANDLE	C.S. ZINC PL + PVC	
13	CLIP SPRINGS	50CGV4	
14	STEM NUTS	SF 568 6S	
15	HEX SOCKET HEAD SCREW	SF 568 0.0	
16	STOP PIN	C.S. ZINC PL	

(c) RECOMMENDED SPARE PARTS

ITEM	TAG	DN	E	α_{gas} 150 100	G	h	H	ISO 6211	Kg
0000A	100 201	11/7"	34	165	250	60	68	P05	11

FULL BORE

FACE TO FACE : ASME B6.10 LONG PATTERN
DATE : ASME B6.36

FLANGE: ACC TO ASME, B16.5

-TEMPERATURE: UP TO 100°C

[illegible]