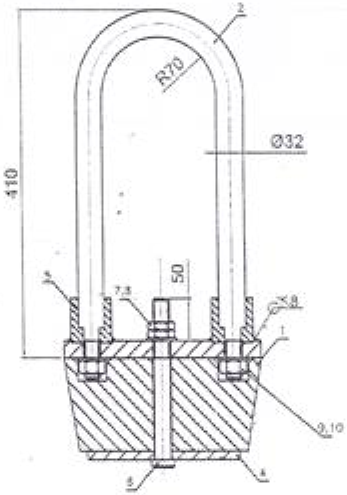
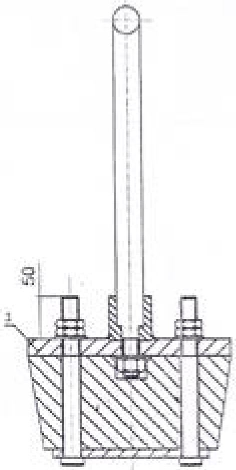
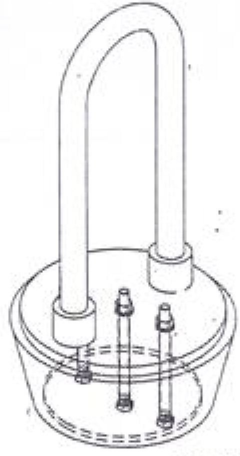


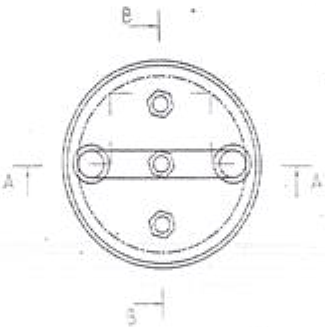
Sec. A-A



Sec. B-B



ISOMETRIC VIEW



Note 1: Part No.2 must be bent in the hot condition
Note 2: Stress relieving is needed after the parts No.2, 3 and 5 are welded.
Note 3: Break all sharp edges with chamfer 0.5*45 and corners with fillet R0.5

POS.	DESCRIPTION	QTY.	MATERIAL	Unit W(kg)	Total W(kg)	
10	SPRING WASHER M20	2	STD	–	–	
9	NUT M20	2	8.8	–	–	DIN934
8	SPRING WASHER M20	3	[illegible]	–	–	
7	NUT M20	3	8.8	–	–	DIN439
6	BOLT M20,L=310	3	42CrMo4	–	–	
5	Bushing	2	ST52	–	–	
4	PLATE Φ183X10	1	ST37	3.1	3.1	
3	PLATE Φ240X20	1	ST52	7	7	
2	HANDLE ROD Φ32, [illegible]	1	ST52	6	6	
1	GRAPHITE NIPPLE	1	STD	–	–	

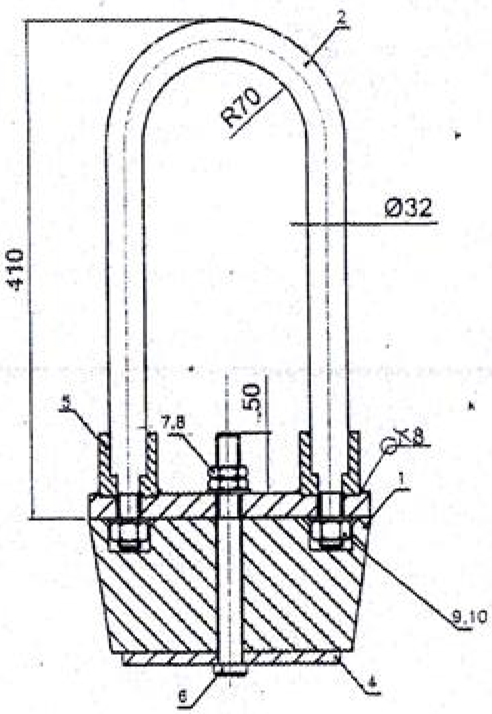
M.S.C.
Y.E.I.
[illegible]

REFERENCE DRAWINGS	ITEM NO.
	QUANTITY

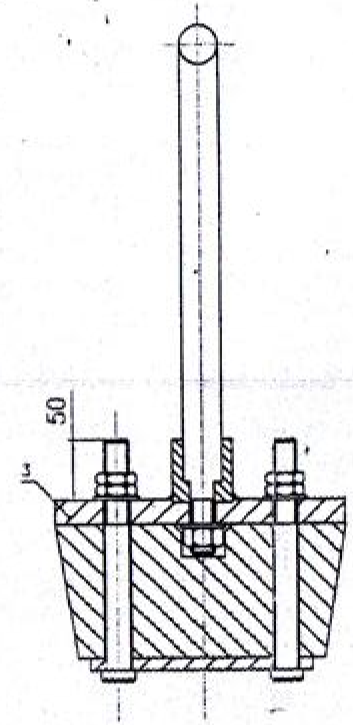
LIFTING RIG FOR HALF NIPPLE 450mm

A 890717DAG022
3

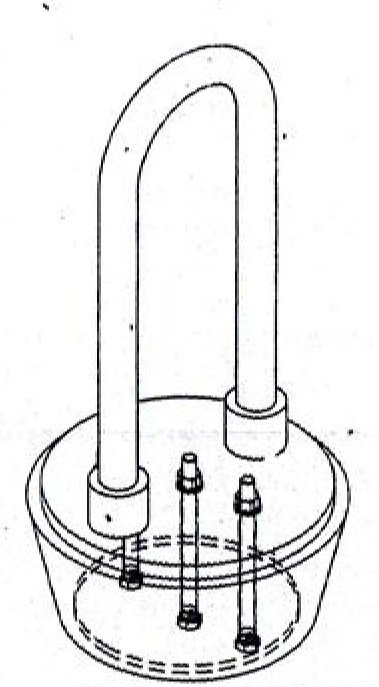
DETAIL DWGS 89071?DAG023~28



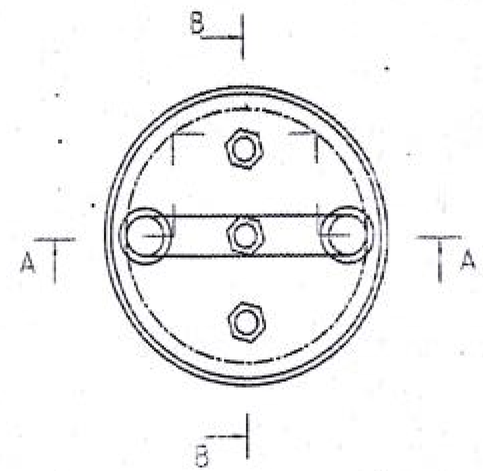
Sec. A–A



Sec. B–B



ISOMETRIC VIEW



Note 1: Part No.2 must be bent in the hot condition.
Note 2: Stress relieving is needed after the parts No.2, 3 and 5 are welded.
Note 3: Break all sharp edges with chamfer 0.5*45 and corners with fillet R0.5

M16

POS.	DESCRIPTION	QTY.	MATERIAL	Unit W(KG)	Total W(KG)	
10	SPRING WASHER M20	2	STD	–	–	
9	NUT M20	2	8.8	–	–	DIN934
8	SPRING WASHER M20	3	STD	–	–	
7	NUT M20	3	8.8	–	–	DIN439
6	BOLT M20 L=210	3	42CrMo4	–	–	
5	Bushing	2	ST52	–	–	
4	PLATE Ø185X10	1	ST52	2.1	2.1	
3	PLATE Ø240x20	1	ST52	7	7	
2	HANDLE ROD Ø32, L=950	1	ST52	6	6	
1	GRAPHITE NIPPLE	1	STD	–	–	

M.S.C.
T.E.I.
I.S.C.

REFERENCE DRAWINGS	ITEM IT
	QUNTITY

LIFTING RIG FOR HALF NIPPLE 450mm

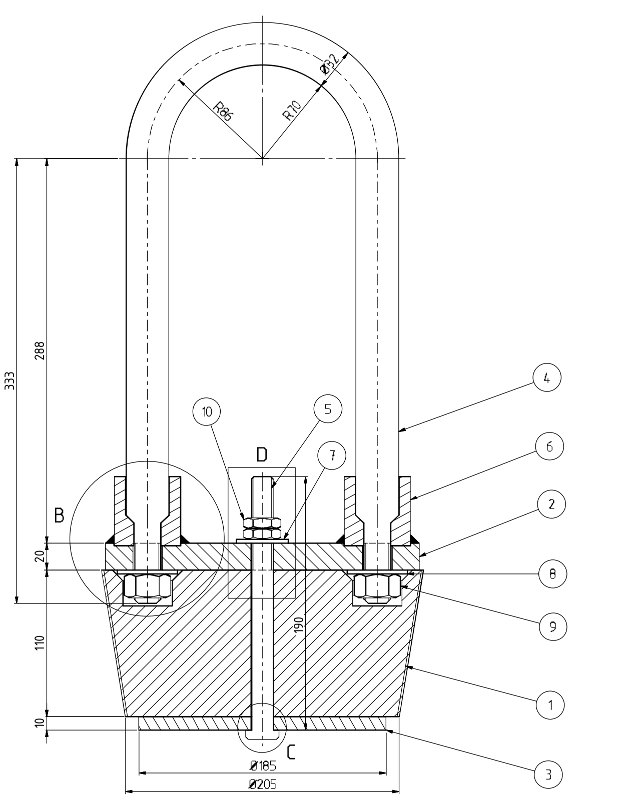
89/05/25 0:0
89/05/25 0:0
89/05/25 0:0
89/05/25 0:0

A 890717DAG022
3 PU07

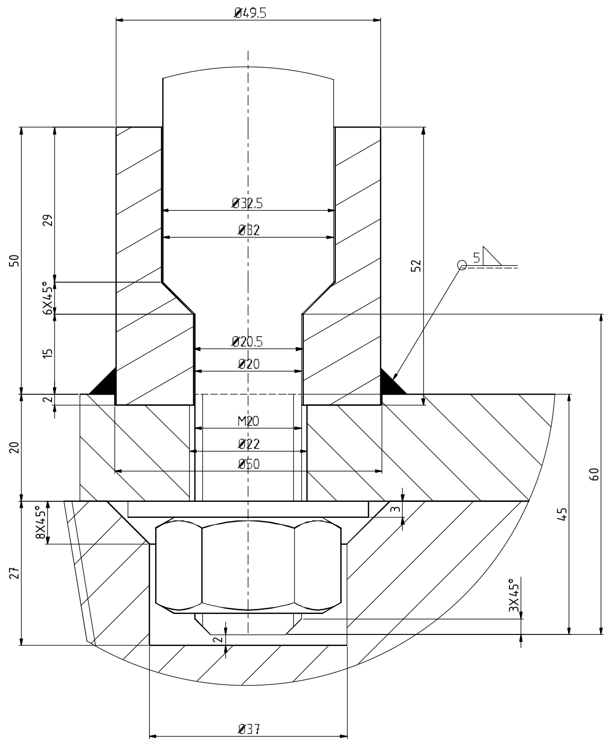
REV.

DETAIL DWGS 8907017DAG023~28

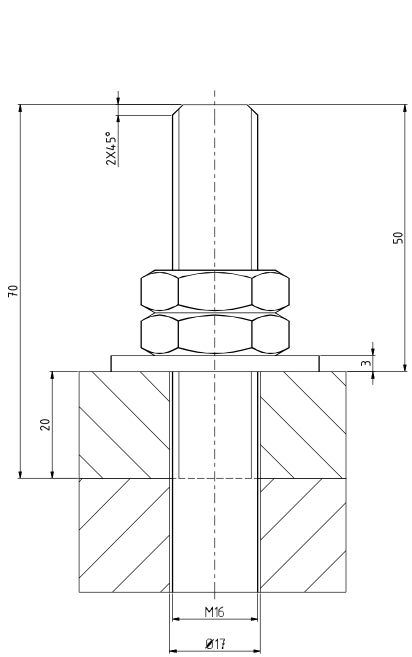
A-A (1 : 2)

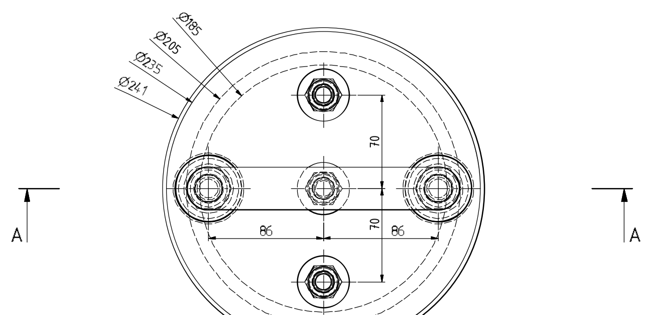


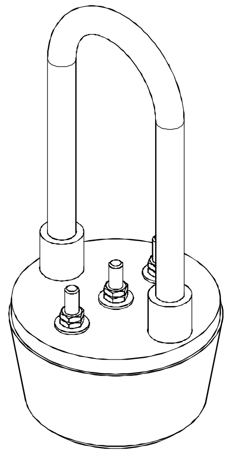
B (2:1)



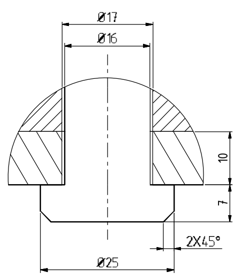
D (2:1)







C (2:1)



Note 1: Part No.4 must be bent in the hot condition.

Note 2: Stress relieving is needed after the parts No.2 and 6 are welded.

ITEM	QTY	DESCRIPTION		MATERIAL
10	6	NUT M16		8
9	2	NUT M20		8
8	2	SPRING WASHER M20		BY STANDARD
7	3	SPRING WASHER M16		BY STANDARD
6	2	BUSHING		S355J2G3 OR CK30
5	3	BOLT M16	L=190	42CRMO4
4	1	ROD	L=936	S355J2G3 OR CK30
3	1	PLATE	THIC=10	S355J2G3 OR CK30
2	1	PLATE	THIC=20	S355J2G3 OR CK30
1	1	GRAPHITE NIPPLE		BY STANDARD

PARTS LIST

M.S.C شرکت فولاد مبارکه

EHYASANAT Engineering Corporation AUTOMATION & POWER

Project Title: PU07 modified half nipple 450mm

Drawing Title: lifting rig for half nipple 450mm

for approval

		Signature	Date	Scale	Size	Client Drawing No.	Sheet	Rev.
Reference Drawing	Designed by	Noor	92/12/20	AS SHOW	A1	8A07170AG001		0
	Drawed by	Noor	92/12/20					
	Checked by	Jamshidi	92/12/20					
	Approved by	Jamshidi	92/12/20			Cont , D ON.		