



HEAVY MECHANICAL COMPLEX
Government Of Pakistan



TENDER ENQUIRY

PUR/TE/01

NO.	FPG-24-005	Date:	29-04-2024	Due on:	16-05-2024
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Please ensure to indicate your offer in this schedule. In case of shortage of space, you may use your letterhead but this schedule is to be returned duly filled in & signed.

Dear Sirs,

We invite your sealed bid on CFR basis for the supply of following store (s) as per format depicted below and over leaf.
Bid must reach Admin Building by 1400 hours for opening in public at 1430 hours on due date.

S. NO.	DESCRIPTION	Qty.	Unit	Unit Price	Total Price
1	Valve Cup Drg. No. Y35-234	03	Nos		
2	Valve Stem Drg. No. Y35-228	06	Nos		
3	Valve Seat Drg. No. Y35-229	06	Nos		
4	Valve Cup Drg. No. Y35-230	03	Nos		
5	Valve Drg. No. Y35-231	06	Nos		
6	Valve Cup Drg. No. Y35-232	03	Nos		
7	Nut Drg. No. Y35-233	06	Nos		
8	Valve Stem Drg. No. Y35-218	06	Nos		
9	Valve Seat Drg. No. Y35-219	06	Nos		
10	Valve Drg. No. Y35-220	06	Nos		
11	Nut Drg. No. Y35-221	06	Nos		
12	Valve Cup Drg. No. Y35-222	03	Nos		
All Technical details should be as per attached Drawings. Warranty: 01 Year					
- Bidding Procedure: Single stage - Single Envelope					
Note: The following are mandatory and to be fulfilled.					
1: Letter of Authorization as a local agent of Foreign principal must be attached with Quotation.					
2: Certificate of Origin Under Pak - China Free Trade (FTA) is essentially required with the shipping documents. (If country Origin is China).					
3: Quantity can be increased, decreased or deleted after tender opening if necessary.					
4: Ocean freight charges upto Karachi seaport must be quoted Separately.					
5: Offers having country of origin Israel & India will not be Considered.					
6: Quotation of foreign principal must be attached.					
7: 2% Bid security is essential to be submitted with Bid as per clause "2" of our Tender Enquiry Terms & Conditions.					
8: Supplier can quote only one offer in a Tender, No Options / Alternate offers will be considered.					
9: One Local Agent can quote offer only from one foreign principal in Tender. Local agent offering bids with more than one foreign principal will not be considered.					
10: HMC may reject all those offers which have validity period less than required (30 days) against tender.					
11: Supply reference record for the quoted material must be provided with the quotation.					

Issued By

For Head Purchase Department
Heavy Mechanical Complex Taxila.

Incl: Terms & Conditions, Proforma for Performance/Bid Bond

DECLARATION

We certify that we have read the terms and conditions of the tender enquiry over leaf and the same are fully acceptable to us. We further agree to provide performance bond, if required.

Signature _____

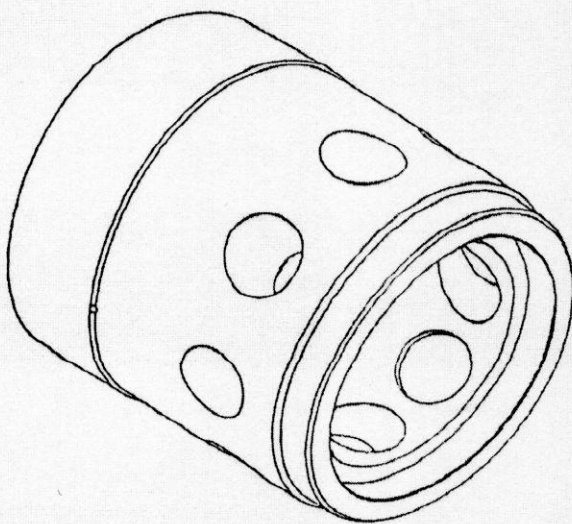
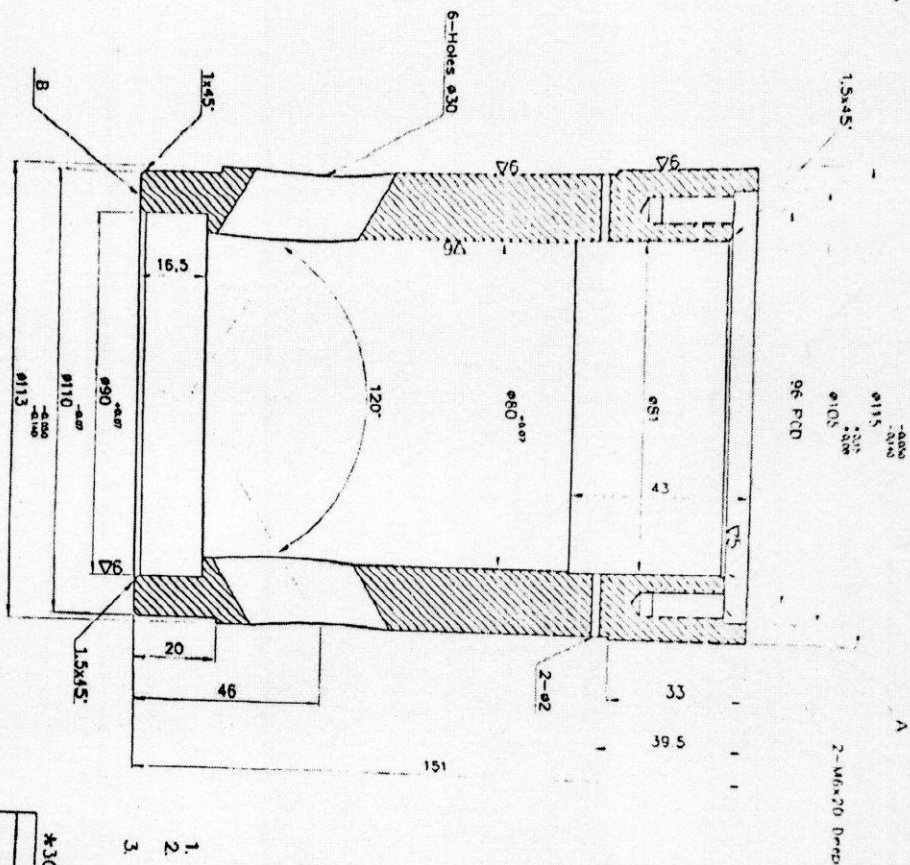
Full Name _____

Seal of the Firm _____

Holder of ASME
Stamp Designator
UJ2,S-PP and
The National Board
NB & R Stamp

Taxila : 47050 Pakistan Phones : (+92-51) 9270562 (5 Lines), (+92-51) 9314181
Fax: (+92-51) 9270560, (92-51) 9314202, 3
Email: hmcengg@hmc.com.pk, marketing@hmc.com.pk & procurement.hmc@gmail.com
Web Site: http://www.hmc.com.pk





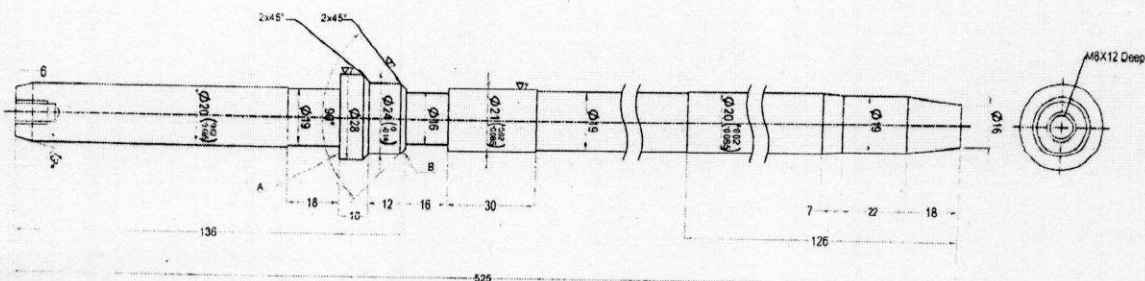
TECHNICAL REQUIREMENTS:

1. The unconcentricity of ø115, ø90 to ø80 is not more than 0.03mm.
2. The perpendicularity of end faces A and B to the centre line ø80, on the length of diameter is not more than 0.03mm.
3. Hardness of part after improvement 241-285 HB.

*33C13

H.M.C		F&F WORKS	
TAXILA		DATE	
ALTERATION		DATE	
NO. 5.00		N.T.S.	
MATERIAL		SCALE	
Wt (kg)		WATER DRAM VALVE	
APPLICATION NO.		POSITION	
REF. DRG. NO.		AS PER SAMPLE	
NATURE OF PIECE		FINISHED	
VALVE SEAT		C 11 D	
DRG. NO.		Y35-234	
DATE		23-06-2022	
APPROVED		APPROVED	
DRAWN		DRAWN	
CHECKED		CHECKED	
REVIEWED		REVIEWED	

The Rest $\nabla 6$

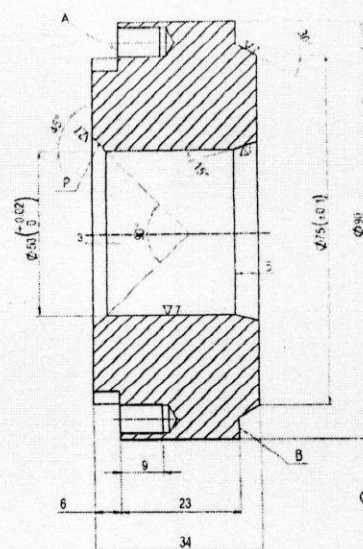
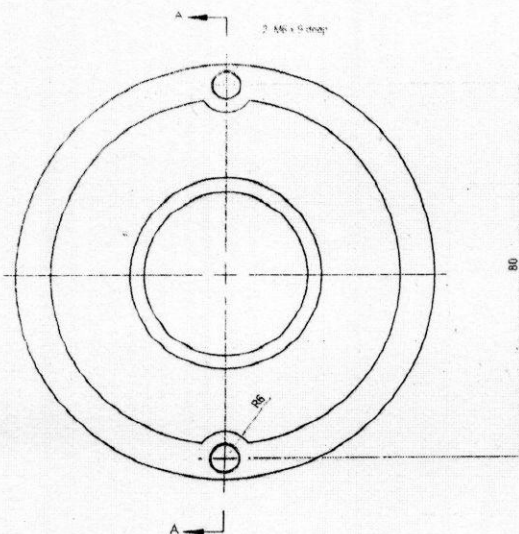


TECHNICAL REQUIREMENTS:

1. The unstraightness of generating line $\phi 20$ along with 525 mm length should not be more than 0.05mm.
2. End face A & B after surface quenching HRC ≥ 48 .
3. Hardness of the part after improvement HB 241~285.
4. Remove the sharp edges at R 0.5

* 3Cr13		Qty: 2 Pcs/Set	
S. No.		HMC	
F. No.		F&F WORKS	
T. No.		TAXILA	
* 1.25		ALTERATION	
NTS		DATE	
CUSTOMER: 800 ton H. Press (K2027SM)		SIGN	
MAT. WT (kg)		GROUP: Valve Stem Valve	
SCALE		DESIGNED	
APPLICATION No.		DRAWN	
POSITION		CHECKED	
REF DRG No.		TRACED	
As per sample		DATE	
VALVE STEM		DRG NO.	
		Y35-228	

The Rest ∇6



SECTION A-A

TECHNICAL REQUIREMENTS:

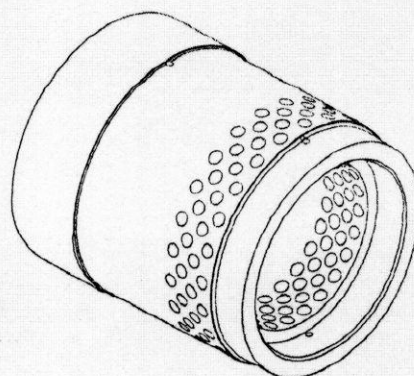
1. The unconcentricity of $\phi 90$, $\phi 75$ and Taper Face "P" to 90 is not more than 0.03mm
2. The unperpendicularity of end face A and B to centre line of $\phi 90$ is not more than 0.03 mm.
3. The Taper Face P is grinded together with connected part in Assembling
4. Hardness of the part after improvement HB 241~285
5. Hardness of Taper Face P after surface quenching HRC ≥ 45
6. Remove the sharp edges at R 0.5

* 3C/13

S.No.				ALTERATION		DATE		SIGN	
★ 1.8				NTS		CUSTOMER:- 800 ton H. Press (K2027SM)		DESIGNED	
MAT. WT.(kg)				SCALE		GROUP:- Water Drain valve		DRAWN	
APPLICATION No.				POSITION		VALVE SEAT		TRACED	
REF.DRG.No				As per sample				DRG NO.	
								Y35-229	

HMC
F&F WORKS
TAXILA.

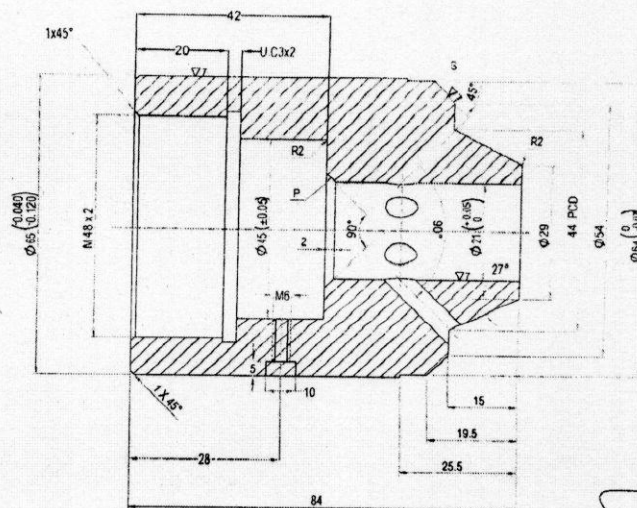
APPROVED
MICHAEL HUSSAIN
CHECKED
A. SHAIKH
DATE
08-04-2023

[illegible]

TECHNICAL REQUIREMENTS:

1. The unconcentricity of $\phi 95$, $\phi 75$ to $\phi 65$ is not more than 0.03 mm.
2. The perpendicularity of end faces A and B to the centre line of $\phi 65$, on the length of diameter is not more than 0.03 mm.
3. Hardness of part after improvement 241 - 285 HB.

* 3C/13						HMC	
						F&F WORKS	
						TAXILA.	
S.No		ALTERATION		DATE		SIGN	
★		2.6 NTS		CUSTOMER - 800 Iqn Hl Press (120275M)		APPROVED	
MAT.		WT.(kg) SCALE		GROUP - Water Drain valve		INAD HUSSAIN	
						DRAWN	
						M. S. HAN	
						CHECKED	
						DATE	
						06-04-2021	
APPLICATION NO.		POSITION		VALVE CUP ✓		TRACED	
REF. DRG. No.		As per sample				DRG NO. Y35-230	



TECHNICAL REQUIREMENTS:

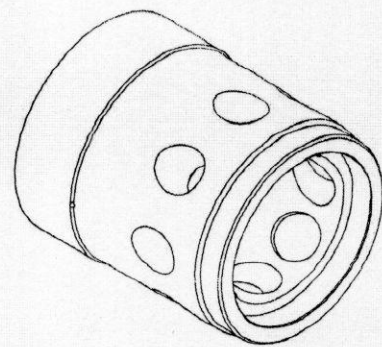
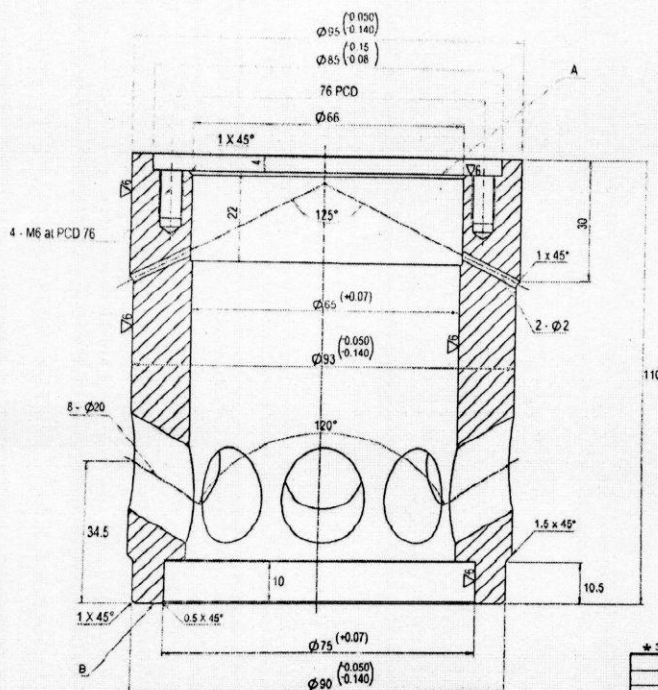
1. The unconcentricity of $\phi 65$, to $\phi 21$ should not be more than 0.03mm.
2. The unconcentricity of $\phi 64$, to $\phi 21$ should not be more than 0.01mm.
3. The Taper Face P&S is grinded together with connected part in Assembling.
4. Hardness of the part after improvement HB 241~285
5. Hardness of Taper Face P & S after surface quenching HRC ≥ 48
6. Remove the sharp edges at R 0.5

* 3C/13

Qty:-2 P/Set

W. J. S. 10				Qty. 2 Pcs	
				HMC	
				F&F WORKS	
				TAXILA	
S.No.	ALTERATION			DATE	SIGN
1.8	CUSTOMER - 800 ton M. Press (K2027SM)				
MAT.	WT (kg)	SCALE	GROUP -	Water Drain valve	
APPLICATION NO			VALVE	APPROVED	
REF. DRG NO				DRAWN BY	
As per sample				CHECKED BY	
				TRACED DATE	
				09-04-2021	
				DRG NO.	
				Y35-231	

The Rest ▽4

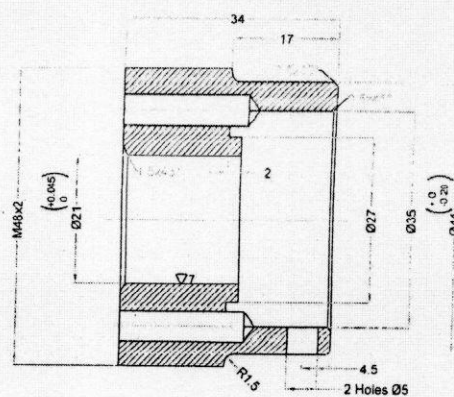
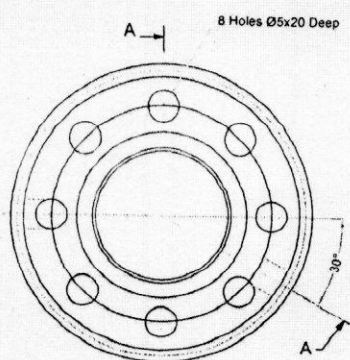


TECHNICAL REQUIREMENTS:

1. The unconcentricity of $\varnothing 95$, $\varnothing 85$ to $\varnothing 65$ is not more than 0.03 mm
2. The unperpendicularity of end faces A and B to the centre line of $\varnothing 65$, on the length of diameter is not more than 0.03 mm
3. Hardness of part after improvement 241 - 285 HB

* 3C/13										HMC F&F WORKS TAXILA.	
S No		ALTERATION		DATE		SIGN					
W 6.1		NTS		CUSTOMER: 800 ton H. Press (K2027SM)						DESKED	
MAT. WT. (kg)		SCALE		GROUP: Water Drain valve						APPROVED	
										DRAWN	
										M. ISRAR	
										CHECKED	
										A. RAZVI	
										DATE	
										08-04-2021	
APPLICATION NO.		POSITION		VALVE SEAT						DRG NO.	
REF DRG NO.		As per sample								Y35-232	

THE REST 74



TECHNICAL REQUIREMENTS:

1. HARDNESS OF PART AFTER IMPROVEMENT HB 241 - 285.

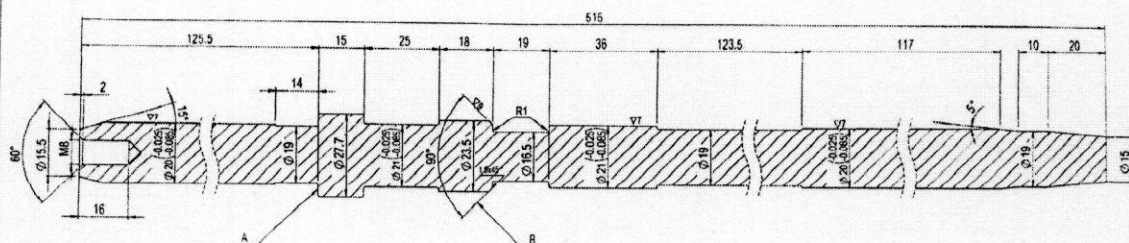
* 30/13

S. No.		ALTERATION		DATE	SIGN
★ 0 35		NTS	CUSTOMER - 800 Ton H Press (K 2027 SM)		
MAT.	WT.(kg)	SCALE	GROUP - Water Drain Valve		
APPLICATION No.		POSITION		NUT	
REF DRG No.		As per Sample			

HMC
F&F WORKS
TAXILA.

APPROVED
DRAWN
MISRAR
TRACED
DATE
12-04-2021
DRG NO.
Y35-233

The Rest ▽6



TECHNICAL REQUIREMENTS:

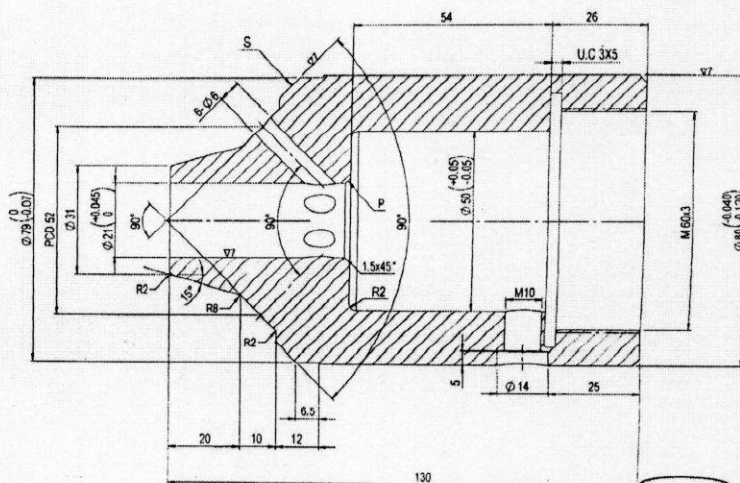
1. The unstraightness of generating line of $\varnothing 20$ along the 515mm length should not be more than 0.05mm
2. End face A and Taper face B, after surface quenching HRC ≥ 48
3. The unconcentricity of two $\varnothing 20$ and taper face to $\varnothing 21$ should not be more than 0.02 mm.
4. Hardness after improvement is HB 241 - 285
5. Sharp edges to be removed at R 0.5

* 3Cr13

INDEX		ALTERATION		DATE	SIGN	TIME
#	1.2 kg	NIS	EQUIP	800 100 H Press (KJ275M)		EX-F WORKS
DATE	WJ	SCALE	GRADE	Supplies Drawn Value		TAXILA
<p align="center">VALVE STEM</p> <p>NATURE OF PIECE: Finish</p>						DESIGNED APPROVAL
						DATE
APP NO.	PEN					DATE
REV. NO.	NO.					DATE
1.25-933						28.01.20
						ORG NO. V35-218

X CaO_3 $\frac{5}{2}$ $\frac{1}{2}$
GAY 2. P. 20

SECTION A-A

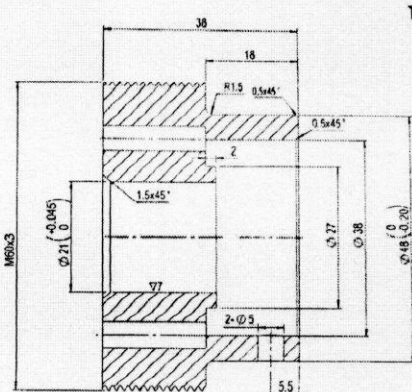
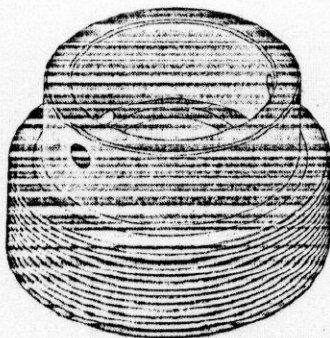
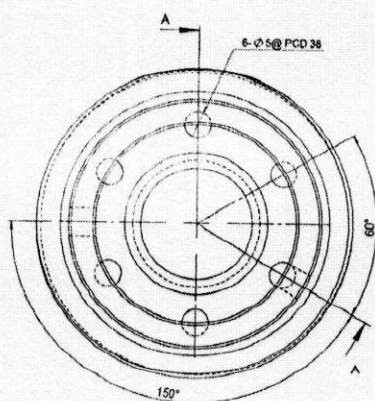


TECHNICAL REQUIREMENTS

1. The unconcentricity of $\phi 80$ and taper face P & S to $\phi 21$ should not be more than 0.03mm
2. The unconcentricity of $\phi 79$ to $\phi 21$ should not be more than 0.1mm
3. The taper faces 'P' and 'S' are ground together with concerned parts in Assembling
4. Hardness of part after improvement HB 241-285
5. Hardness of $\phi 80$ and taper face S after surface quenching HRC \geq 48
6. Hardness of taper face P after surface quenching HRC \geq 45

* 3Cr13

						RMC	
						F&F WORKS	
						LAMILA	
INDEX	ALTERATION				DATE	SIGN.	
#	26K8	NTS	FOLD IN	MAR 10 H. POUND	12-302-741		
MAT	WI	SCALE	GROUP:	Water Drain Valve			
				VALVE			
APP NO.		SCALE		DRAWN BY: [Signature]			
				CHECKED BY: [Signature]			
				TRACED BY: [Signature]			
				DRG NO. Y35-220			
REV. INFO: N/A				NATURE OF PIECE			
MAINT 1300-00-D				Emals			



SECTION A-A

The Rest 1/4

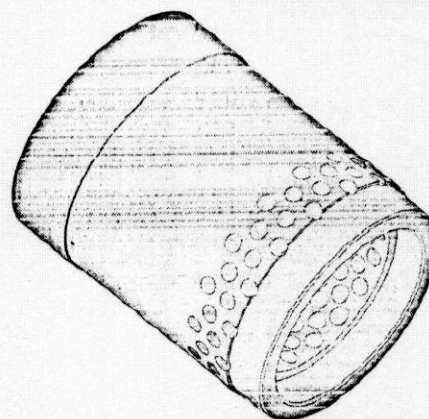
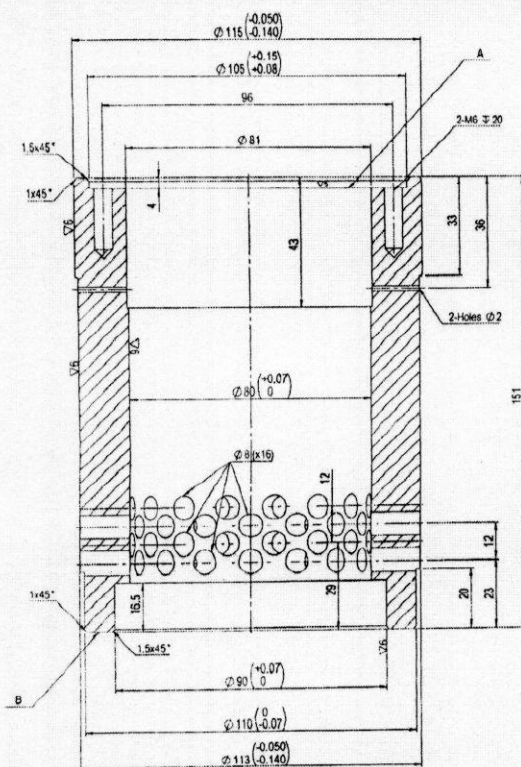
TECHNICAL REQUIREMENTS:

1. Hardness of part after improvement HB 241 - 285

* 3Cr13

INDEX				ALTERATION		DATE		SIGN		BYC EXP WORKS CANBA	
* 0.434	NTS	EQUP.	800	1.001	1.001	1.001	1.001	1.001	1.001	DESIGNED APPROVAL	
MAT	WT	SCALE	GROUP	Water	Donut	Value				TRACED APPROVAL	
APP NO	POS									TRACED	DATE
RTE. DRG. No										28-01-20	
Matut-1357-00											
				NUT		NATURE OF PIECE		Finish		DRG NO. Y35-221	

The Rest ∇4

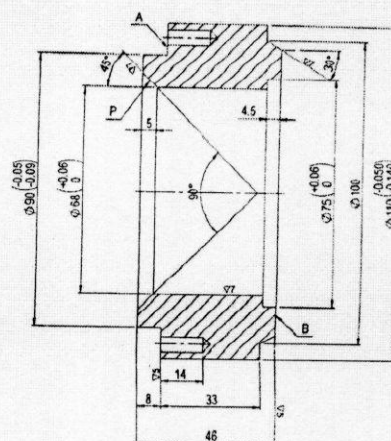


TECHNICAL REQUIREMENTS:

1. The unconcentricity of $\varnothing 115$, $\varnothing 90$ to $\varnothing 80$ is not more than 0.03 mm
2. The unperpendicularity of end faces A and B to the centre line of $\varnothing 80$, on the length of diameter is not more than 0.03 mm
3. Hardness of part after improvement 241 - 285 HB

* 3Cr13

INDEX				ALTERATION		DATE		SIGN.		TIC	
* 3Cr13				N.T.S.		Fig. 1/1		800 Test Press (20775N)		F&F WORKS	
MAT. WT.				SCALE		GROUP		Water Drain Valve		TANAL	
APP NO.				POS.		VALVE CUP				DRAWN	
REF. DES. No.				As per sample		NATURE OF PIECE		Finish		CHECKED	
										DATE	
										10.01.20	
										DRG NO.	
										Y35-222	



TECHNICAL REQUIREMENTS:

1. The unconcentricity of $\phi 110$, $\phi 100$ and Taper Face *P* to $\phi 90$ is not more than 0.03mm
2. The perpendicularity of end face A and B to centre line of $\phi 110$ is not more than 0.03 mm.
3. The Taper Face P is ground together with concerned part in Assembling
4. Hardness of the part after improvement HB 241~285
5. Hardness of Taper Face P after surface quenching HRC ≥ 45
6. Remove the sharp edges at R 0.5

* 3Cr13

						HVC E&F WORKS
INDEX	ALTERNATION				DATE / SIGN.	TAXILA
* 1 S K N T S	QUIP - 400 Lbs H.P. Pumps No. 275/Mk					APPROVED
MAY	WT	SEAT	GROUP - Water Train Valve			
APP NO	PUS		VALVE SEAT			
NATURE OF PLCT						URG NO. 235-219