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RAPHOPLEX

BREVETÉ S.G.D.G.

his backlet is a gift to you by sta, Hattalia was berwijhen. I would like threads out you enabled constraints on this bookta, we byout and idea behind is a hours, and or slide value that six not mentioned is this booktat then i would like a receive that incommute a state cot mentioned is this booktat then i would like the receive that incommute a state cot mentioned is this booktat then i would like the receive that incommute a state cot mentioned is this booktat then it would like the receive that incommute a state cost mentioned is this booktat then it would like the receive that incommute a state cost product the state of the information and of this has would be very much approximate. As there are very this data known from an effective and as the indicate op of catalogoes may slowly have to be done i matched, as I am, this mented of sending pool copies of data to the compiler of attrings of a certain make will probably be the work of a to be come to a fit are by resulting and growing structure catalogoes. Figure help note that the goal

September 1997

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Introduction:

This booklet is meant as a specimen of future slide rule catalogues. Manufacturer Graphoplex is used as example and a description and often a picture of the slide rules, known to the compiler of the booklet, Herman van Herwijnen, is given. The layout is based upon the catalogue started many years ago by members of the "Dutch Circle of Slide Rule Collectors", to which many members of the Circle contributed, and which culminated in the issue of the Blue Book in April 1994 and an Update in November 1995 with nearly 3000 descriptions of rules.

This booklet not only includes the basic slide rules (one per manufacturers own number) but also variants which have the same number but may have different scales, scale codes or other text- or construction variations. The pictures are in black and white and produced on a copying machine. This has a technical reason because for proper scanning still a lot of computer memory is required and a commercial reason because pictures in colour would be very expensive. Also time spent is not commercially recoverable. In future we plan to go to a loose leaf system which will make updating easier.

Future booklets on specific manufacturers should have the history of the manufacturers and other important data which so far has been impossible to find for Graphoplex.

This booklet is a gift to you by me, Herman van Herwijnen. I would like to receive from you constructive comments on this booklet, its layout and idea behind it including needed corrections. When you have information on Graphoplex the manufacturer and/or slide rules that are not mentioned in this booklet then I would like to receive that information. Also good photocopies of the information and of slide rules would be very much appreciated. As there are very little data known from manufacturers and as the building up of catalogues may always have to be done by amateurs, as I am, this method of sending good copies of data to the compiler of a catalogue on a certain make will probably be the only method to come to a reasonable result and growing standard catalogue. Please help materialise this goal.



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member of



Some guidance:

For those not familiar with the slide rule coding system:

1. The code starts with the first 4 letters of the name (here Grap) followed by the number given by the manufacturer to the rule, for instane Grap 699. In case there is no number the first choice is a text like Béton or Statos or Vanne or if no text is available a number starting with .01 and in the case of Graphoplex, going to .07 In case there are variants the code gets also the .01 etc. but then added to the code of the basic rule like Grap 612 .01

2. The abbreviations (flt) mean: front left top, (sfr) slide front right, (sbr) slide back right, (brb) back right bottom.

The, longer than 27 cm, rules have been scaled to 80% and you are requested to use that factor in case you send a picture to a catalogue compiler in case the rule would not fit into the A-4 formaat.

There are three rules without a description because no data was available namely: Grap 614, Grap 670 and Grap 6245 (please send me photocopies and an indication what is coloured if you have one)

Value and rarity:

On page 38 an attempt is made to give the rules a value and a feel for the rarity. This is only an example of how it could look like. Some prices and rarity qualifications may be correct but other data may be very much dependent on the country you are living in and the colleague collectors you know.

The best example where it is difficult to set the rarity is the Grap Show Small (see real size on page 39). This is probably a very scarce item because it was made to put in a shop window and one can imagine that there were not thousands made. Because I met the man who bought a large stock of slide rules, including these special ones, I was able to buy several. You may not see them in flea markets. Is it rare or not? Not for me but probably yes in general.

In general the odd ones of which there are only one or two in the Dutch Circle and/ or the very complex ones I gave the label R or RR in the list. A price list needs updating regularly and should be loose leaf.

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BREVETÉ S.G.D.G.

Cuante		cation		laterial	Sizes	IVI	anufac	turer	N	CV-c	ode	2	Cons	struc	ction	Own n
Grapho	plex	Béto	n						G	rap	B	éto	n			
slide rule	tech	hnical		plastic	248x47.5x6	5	Graph	oplex			1		close	d fran	ne	
Scales				- L	Front				1)	= 2)	=	3)				
(f) Scale cod (f) 1)=Q=DÉE 20-10000, 2) 0,30-3,2 and MILLIÉMES	BIT EN LIT =D=DIAM 3)=J=PEF	RES PAR ÈTRE EN RTE DE C	SECO	IES from	Text (fit) MODE D'EI CALCUL HYDF BÉTON, (frt) log TUYAUX BONI rule but on inst (b) Tables and CONDUITE EC ORFICES-DEV	AULIQU o STB ir NA. Nam ruction g formulas	IE DES CO n circle, (frb guide. s ÉQUIVAL	NDUITES EI) SOCIETE I ex not on th ENCES, PO	↓ DES ∋ slide	No c Unde			slide a etal strip			
Grapho	xela	Gaz	de	France					G	rap	G	az				
slide rule		/tech	1	plastic	297x39.5x5	5	Graph	polex					close	d fran	ne	1
Scales	109	, coon		practic	Front			PA-PB	P	PA2-F	B ²	= 1	. D :		and the second se	5
) Scale cod	es left no	formulas	right		Text				-	and the second	her		-	16 1001		
ame line as PA ² -PB ² en k rom 1 m- 10 Débit Q en m Pression P fr ine,	g/cm ² from 00 km, Dia ³ /h from 5-	n .0001-10 amètre D e -100000 a	n mm	Longuer L from 20-1000, a de la	FRANCE (b) Instruction of Direction des E <u>CHARGE DAN</u> simplified versit used	tudes et	Necherch ONDUITES	DE GAZ. A	DE	from Prop	o.4-1 0.4-1 o. of g	ng a f which as 1.1	actor in are for	cluding Gaz, n	densit at. 0.54	ertical lines y and visco l, Air prop. 1
Grapho	plex	Instr	uct	ion rule	r				G	rap	In	str				
slide rule	gei	neric		plastic	1320X285X	10	Graph	oplex	1	00 cm			close	d frar	ne	
Scales					Front		LL2 LL	3 L A	= B	КС	C	:=	DS	SRT	T<4	5
Cl completel			C and		Text		V rod and I			. 200100	her					
				D and numbers	Text (fib) logo GRAF black	PHOPLE	X red and M	ADE IN FR	ANCE	Flat guid In sli the b	persp es ide bo back 2	oth end 2 supp	ls a 35	mm di 50 mn	ameter 1 with 2	ntal synthet black circle small hole:
ed	y red. cos	and ctg le	otters a		(flb) logo GRAF black	PHOPLE	X red and N	ADE IN FR	9	Flat guid In sli the b	persp es ide bo back 2 the r	oth end 2 supp ruler in	ls a 35 orts 80> a shop	mm di 50 mm windo	ameter 1 with 2	black circle
ed	plex	and ctg le	otters a	and numbers	(flb) logo GRAF black	PHOPLE	X red and M		G	Flat guid In sli the t hang	persp es ide bo back 2 the r	oth end 2 supp ruler in	ls a 35 orts 80> a shop	mm dia 50 mm windo	ameter 1 with 2 w	black circle
Grapho slide rule	plex	and ctg le	otters a	ion rule	(flb) logo GRAF black ľ	PHOPLE	Graph	oplex		Flat guid In sli the t hang 00 cm a b	persp es ide bo pack 2 g the r In	sth end supp ruler in Str B L	ls a 35 orts 80» a shop .01	mm dia 50 mm windo d frar	ameter n with 2 w	black circle
Grapho	plex gei	and ctg le Instr neric	uct	ion rule	(fib) logo GRAF black r 1280x250	PHOPLE	Graph	oplex		Flat guid In sli the b hang rap 00 cm	persp es ide bo pack 2 g the r In	sth end supp ruler in Str B L	ls a 35 orts 80, a shop .01 close	mm dia 50 mm windo d frar	ameter n with 2 w	black circle
Grapho slide rule Scales extending a completely 0.5 and 5 tick icale.	pplex gen gen scales red, red, P let c marks a 2 horizoni	Instr neric , B ² , b ² , a tters and r red point i tal lines e	a, b an umber n B ² , b	ion rule	(fib) logo GRAF black r 1280x250 Front		Graph P E	oplex ³ B ² =	$\begin{array}{c c} G \\ 1 \\ b^2 \\ I \\ = \\ \end{array}$	Flat guid In sli the t hang 00 cm a b 5 T s	persp es ide bo pack 2 g the r In	sth end supp ruler in Str B L	ls a 35 orts 80, a shop .01 close	mm dia 50 mm windo d frar	ameter n with 2 w	black circle
Grapho slide rule Scales extending a completely 0.5 and 5 ticl scale. f) All scales 3 which have	plex plex gei scales red, red, P let marks a 2 horizon 1 horizon	Instr Instr neric , B ² , b ² , a tters and r red point i tal lines e ntal line	a, b an umber n B ² , b xcept I	ion rule plastic d B s red. On the s ² , a, b and B	(fb) logo GRAF black r 1280x250 Front Back Text (fl) logo GRAP (rb) MADE IN F		Graph P E	oplex ³ B ² =	$\begin{array}{ c }\hline G\\ 1\\ b^2 \\ \hline \\ = \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	Flat guid In sli the t hang 00 cm a b 5 T S Ot	perspes de bo pack 2 the r ln = = 5T I her	bth end 2 supp ruler in Str B L b =	ls a 35 orts 80 a shop .01 close .L3 L	mm dia 50 mm windo d frar	ameter n with 2 w	black circle
Grapho slide rule Scales extending s completely 0.5 and 5 tick cale. f) All scales 3 which have	gei gei scales red, red, P let marks a 2 horizon 2 horizon plex	Instr Instr neric , B ² , b ² , a tters and r red point i tal lines e ntal line	a, b an umber n B ² , b xcept I	ion rule plastic d B rs red. On the s ² , a, b and B B ² , b ² , b and	(fb) logo GRAF black r 1280x250 Front Back Text (fl) logo GRAP (rb) MADE IN F	HOPLES	Graph P E	oplex ³ B ² = 5.G.D.G. re	G 1 b ² L = 5 .d,	Flat guid In sli the t hang 00 cm a b 5 T S Ot Ot	persp es de bc dack 2 the r In ST I her	oth end 2 supp uler in Str B L b =	ex close	mm dia 50 mm windo d frar L2 L	ameter n with 2 w	black circle
Grapho slide rule cales extending s completely 5 and 5 tick cale. All scales which have Grapho disc(s)	gei gei scales red, red, P let marks a 2 horizon 2 horizon plex	Instr neric , B ² , b ² , a tters and r red point i tal lines e ntal line Calc	a, b an umber n B ² , b xcept I	ion rule plastic d B rs red. On the s ² , a, b and B B ² , b ² , b and teur Ro	(fib) logo GRAF black r 1280x250 Front Back Text (fil) logo GRAP (frb) MADE IN F plex	HOPLES	Graph P E (BREVETE red	oplex ³ B ² = 5.G.D.G. re	$\begin{array}{ c c }\hline G \\ 1 \\ \hline b^2 \\ I \\ \hline = \\ 0 \\ d, \\ \hline \\ G \\ \hline \\ = \\ n \\ \end{array}$	Flat guid In sli the t hang 00 cm a b 5 T s Ot Ot PR cm n ² =	persp es de bc pack 2 the r In b = ST I her R = n ²	bth ence 2 supp uler in Str B L b = opl	ex close	mm dia 50 mm windo d frar L2 L	ameter n with 2 w	black circle
Grapho slide rule Scales extending a completely 0.5 and 5 tick ccale. f) All scales which have Grapho	scales red, red. P let marks a 2 horizon plex gen codes but	Instr neric , B ² , b ² , a tters and r red point i tal lines e ntal line Calc neric formulas v	uct a, b an number n B ² , t ucept 1 ula	ion rule plastic d B rs red. On the s², a, b and B B², b², b and teur Ro plastic	(fb) logo GRAF black r 1280x250 Front Back Text (fil) logo GRAP (frb) MADE IN F plex 128x128x6	HOPLES	Graph P E (BREVETE red	oplex ³ B ² = 5.G.D.G. re	$\begin{array}{ c c }\hline G \\ 1 \\ \hline b^2 \\ I \\ \hline = \\ 0 \\ d, \\ \hline \\ G \\ \hline \\ = \\ n \\ \end{array}$	Flat guid In sli the t hang 00 cm a b 5 T S 0t Ot PR cm n ² = S L	persp es de bc pack 2 the r In b = ST I her R = n ²	bth ence 2 supp uler in B L b = Opl	ex close	mm dia 50 mm windo d frar L2 L	ameter n with 2 w	black circle

	Model 1	rao		NCV-code Construction O Grap Show Large	
Graphoplex Show			Oreshaalar		
slide rule generic	plastic	1275x270x9 Front	Graphoplex P B ³ B ² - H	100 cm closed frame b^2 L a b = B LL3 LL2 LL1	
Scales	h and D		F D D = 1		
5 extending scales red, B ² , b ² , a, a completely red. P letters and nu 0.5 and 5 tick marks a red point in scale.	mbers red. On the	(fmm) RÉGLES A CA	EX BREVETÉ S.G.D.G. re ALCULS in black in large lo d with size 550x115 mm	Ogo On the back 2 supports 80x50 mm with 2 s	mall ho
 (f) All scales 2 horizontal lines exists B which have 1 horizontal line 	cept B ² , b ² , b and			to hang the rule in a shop window	
Graphoplex Show	/ Model s	mall		Grap Show Small	
slide rule generic	plastic	750x158x1.2	Graphoplex	58.8 cm closed frame	
Scales		Front	$P B^3 B^2 = t$	p^2 L a b = B LL3 LL2 LL1	
5 extending scales red, B ² , b ² , a, a completely red. P letters and nu 0.5 and 5 tick marks a red point in scale. (f) All scales 2 horizontal lines ex B which have 1 horizontal line	mbers red. On the B ² , b ² , a, b and B	(fmm) RÉGLES A CA	EX BREVETÉ S.G.D.G. re ALCULS in black in large I d with size 323x67 mm	d, ogo On the back 2 supports 147x48 mm to plac model in a shop window and in top 2 small hang the rule	e the sl holes t
Graphoplex State	os Stahlbe	eton		Grap Statos	
slide rule concrete	plastic	153x44x4.8	Graphoplex	12.5 cm closed frame	
Scales		Front	13 <u>cm</u> / L cos		
f) Scale codes right, no formulas etters σe, left of b ² letters bM, left		Back		= S&T S T b =	
5 extending scales red B ² , b ² , a, b a and 1) completely red, cos lette red. (f) 1)=Armierung Fe=μ%b.h from 1. -lebelarm η.h from 0.87-0.96,3)= Spannungsverhältnis σe:σb. All s ines except B ² , b ² , b and B which (sb) S and T 2 horizontal lines. St porizontal line	nrs and numbers .4-0.05, 2)=Innerer scales 2 horizontal n have 1	STATOS Stahlbeton (blm) vertical Pat. "S armé Syst. P.Lüthy /	(fb) MADE IN FRANCE rec TATOS" Brev. Stahlbeton / M. Nussbaum, Ing ^a Basel s instruction guide. (brb) Ci and vertical VON	(b) One open window right. Under slide 2 m 5 mm wide. On the back 4 small 3 mm Ø k same material as rule.	netal stri nobs of
Graphoplex Regle	a Calcul	de Vannes		Grap Vanne	
slide rule log/tech	plastic	238x48x	Graphoplex	20 cm closed frame	2.5
Scales		Front	1) :	= 2) 3) 4) = 5) 6)	
f) 6)=SURCHAUFFE VAPEUR °C) from 0-300	Back	7) 8) =	9) = 10) 11) 12) 13)	
completely red (f) 1)=kg/cm ² abs from 100-0.01 w abs. 2)=kg/cm ² m eau from 0.01-1 and ΔH, 3)=DENSITE liqu/eau à 1 from 0.4-10, 5)=TEMPERATURE (500 and in same line on the right 6)=SURCHAUFFE VAPEUR °C fro	100 with right ∆P T° from 0.1-10, 4)=A GAZ °C from -50 to side om 0-300	guide, (frt) RETOURI instruction guide, (flt BREVETE S.G.D.G.	BIMETRES red with instru- NER LA REGLE red with b) logo GRAPHOPLEX MADE IN FRANCE, (frb) posée, (fmt) REGLE A CAI DEBITMETRES	pourcentage in graph form, Rv= 50, 40, 30, % levée from 0-100 red	25 vers
(b) 7)=Ø Vanne Double siége from	, 9)=three scales in	(blb) CONTROLEXA (sbl) and (sbr) vertica	CT, (bmb) instruction guide al VAP-GAZ-LIQ	Suge of	
one for m ³ /h, m ³ /h15° 1 atm, T/h r 0.1-1000, 1- 10000 and 0.01-100, 0.1-1000, 11)=B=d/D for Diaphrag	10)=Cv from me 25-25 (flange				
one for m^3/h , $m^3/h15^\circ$ 1 atm, T/h r 0.1-1000, 1- 10000 and 0.01-100, 0.1-1000, 11)= β =d/D for Diaphrag ap) from 0.20-0.75, 13)=D" condu 14)= β =d/D for Venturi AFNOR from	10)=Cv from me 25-25 (flange			Grap .01	
one for m^3/h , $m^3/h15^\circ$ 1 atm, T/h r 0.1-1000, 1- 10000 and 0.01-100, 0.1-1000, 11)= β =d/D for Diaphrag ap) from 0.20-0.75, 13)=D" condu 14)= β =d/D for Venturi AFNOR from	10)=Cv from me 25-25 (flange	291x40x6.2	Graphoplex	25 cm closed frame	
$\begin{array}{c c} & \text{for } m^3/h, m^3/h 15^\circ 1 \text{atm, T/h r}, \\ & \text{0.1-1000, 1- 10000 and 0.01-100,} \\ & \text{0.1-1000, 11)=}\beta=d/D \text{for Diaphrag}, \\ & \text{ap) from } 0.20\text{-}0.75, 13)=D^* \text{condu}, \\ & \text{14)=}\beta=d/D \text{for Venturi AFNOR from}, \\ & \text{Graphoplex}, \\ & \text{slide rule} \log/\text{tech}, \\ & \text{Scales}, \\ \end{array}$	10)=Cv from me 25-25 (flange ite from 2-1, n 0.15-0.80	291x40x6.2 Front	Graphoplex 27 <u>cm</u>		
bene for m ³ /h, m ³ /h15° 1 atm, T/h r 0.1-1000, 1- 10000 and 0.01-100, 11)=β=d/D for Diaphragi (ap) from 0.20-0.75, 13)=D" condu 14)=β=d/D for Venturi AFNOR from Graphoplex slide rule log/tech Scales (f) No scale codes (f) 1)=Dénivelées et distances en yards from 100-14000, 2)=Site en 50-1600, 3)=Site en millièmes froi 4)=Ligne de sondage en mètres fr	10)=Cv from me 25-25 (flange iite from 2-1, n 0.15-0.80 plastic mètres ou en n millièmes from m 50-1600,	Front Text	and the second se	25 cm closed frame	ne plate
one for m^3/h , $m^3/h15^\circ 1$ atm, T/h r 0.1-1000, 1- 10000 and 0.01-100, 1.1-1000, 11)= β =d/D for Diaphragi tap) from 0.20-0.75, 13)=D" condu 14)= β =d/D for Venturi AFNOR from Graphoplex slide rule log/tech Scales (f) No scale codes (f) 1)=Dénivelées et distances en yards from 100-14000, 2)=Site en 50-1600, 3)=Site en millièmes froi de sondage en yards from 2-13	10)=Cv from me 25-25 (flange iite from 2-1, n 0.15-0.80 plastic mètres ou en n millièmes from m 50-1600,	Front Text	27 <u>cm</u>	25 cm closed frame / 1) = 2) 3) = 4) 5) Other Flat perspex cursor in two horizontal chrommetal guides. Dark red cardboard case Under slide 2 metal strips 5 mm wide	ne plate
one for m^3/h , $m^3/h15^\circ 1$ atm, T/h r 0.1-1000, 1- 10000 and 0.01-100, 1.1-1000, 11)= β =d/D for Diaphragi- tap) from 0.20-0.75, 13)=D" condu 14)= β =d/D for Venturi AFNOR from Graphoplex slide rule log/tech Scales (f) No scale codes (f) 1)=Dénivelées et distances en yards from 100-14000, 2)=Site en 50-1600, 3)=Site en millèmes fro 4)=Ligne de sondage en mètres fr de sondage en yards from 2-13 Graphoplex	10)=Cv from me 25-25 (flange lite from 2-1, n 0.15-0.80 plastic mètres ou en n millièmes from m 50-1600, rom 2-13, 5)=Ligne	Front Text	27 <u>cm</u> LEX BREVETÉ S.G.D.G.	25 cm closed frame / 1) = 2) 3) = 4) 5) Other Flat perspex cursor in two horizontal chrommetal guides. Dark red cardboard case	ne plate
Vanne simple siège from 1/16"-8" one for m ³ /h, m ³ /h15° 1 atm, T/h r. 0.1-1000, 1-1000 and 0.01-100, 0.1-1000, 11)= β =d/D for Diaphragi tap) from 0.20-0.75, 13)=D" condu 14)= β =d/D for Venturi AFNOR from Graphoplex slide rule log/tech Scales (f) No scale codes (f) Scales Graphoplex slide rule generic Scales	10)=Cv from me 25-25 (flange iite from 2-1, n 0.15-0.80 plastic mètres ou en n millièmes from m 50-1600,	Front Text (sfl) logo GRAPHOP	27 <u>cm</u>	25 cm closed frame / 1) = 2) 3) = 4) 5) Other Flat perspex cursor in two horizontal chrommetal guides. Dark red cardboard case Under slide 2 metal strips 5 mm wide Grap .02 25 cm closed frame	ne plate

Form A	Application	Material	Sizes	Manufacturer	NCV-code Construction Own nr.
Grapho	plex	-	1	14 C	Grap .03
slide rule	generic	plastic	294x38.7x8.2	Graphoplex	25 cm closed frame
Scales			Front	27 <u>cm</u> /	K A = B C I C = D L
(f) No scale co			Back		= S S&T T =
	s left and right ales red, A, B, C and	d D	Text		Other
CI completely	red		(frt) logo GRAPHO	PLEX BREVETÉ S.G.D.G. (fi Fred, (flb) Quot. +1 and (frb)	Prod. Black cardboard case
(f) CI 2 horizor horizontal line	ntal lines. Other scale	es have 1	-1 red		(b) Two closed windows 20 mm long. In bottom on the
(sb) S&T scale horizontal line	2 horizontal lines, S	S and T have 1	(b) Densities, form	nulas and conversion factors	in the body.
Grapho	plex (615)	Caltex			Grap.04
slide rule	generic	plastic	185x32x5	Graphoplex	15 cm closed frame
Scales			Front	17 <u>cm</u> / B³ I	B ² = b ² a b = B L #°F °C#
	s left, no formulas rig s right, no formulas		Back		= 1) 2) =
	ales red, B ² , b ² , a, b		Text	DIEX BDEVETÉ SODO (Other
a completely r		havinental line	MADE IN FRANCE	PLEX BREVETÉ S.G.D.G. (fi Fred, (fib) Quot. +1 and (frb) I	Prod. Flat perspex cursor with trapezium shape with 1 vertical and 1 diagonal red line and 2 vertical black
Under slide sc	prizontal lines, rest 1 ales for conversion	°F to °C and visa	(f) No code numbe	r on rule. The appearance of	the Brown leather case
	°F till 590°F and -40 om 10-70, 2)=D from		front side is as that		
New MA Marcos			scales DEGRES E	red star in circle, 4 conversio NGLER from 200-1,25, 2 sc	ales
			CENTISTOKES fro	rom 8000-37 and 1 scale om 2000-4 all at different	
			100°C. Baril to U.S	20°C, 100°F, 50°C, 210°F at S. Gal. to I conversion factors	S.
			Three scales red. Texaco. Probably	Same special scales as Gra specially made for oil indus	p 615 try.
Grapho	plex				Grap .05
slide rule	generic	plastic	156X40X3.2	Graphoplex	12.5 cm closed frame
Scales			Front	PKADF	= CFLCIC = DSSRTT
	ales red, C and D		Text	eronaleren sonreitakenen se	Other
CI completely and tg number	red, P letters and nu s in S and T scale re	mbers red, cotg	(frt) logo GRAPHO	PLEX FRANCE red.	Curved whole perspex cursor
					On the back side a 16 mm wide 0.2 mm high rim over the full length
Grapho	nley				Grap.06
slide rule	generic	plastic	270x40x6	Graphoplex	25 cm closed frame
	generic	plastic	Front	27 <u>cm</u> /	$B^3 B^2 = b^2 a b = B L$
Scales	alaa D ² b ² a b aad	David	Back	21 <u>0111</u> 1	= S ST T =
a completely r	ales B², b², a, b and ed	Brea	Text		Other
(f) a scale 2 h	orizontal lines, rest 1	I horizontal line	(frt) logo GRAPHC	PLEX BREVETÉ S.G.D.G. (lb)
			Quot +1 and (frb) F	100 - 1 100	Under slide 2 metal strips 5 mm wide
Grapho	plex				Grap .07
slide rule	log/tech	plastic	295x39.5x5.5	Graphoplex	25 cm closed frame
Scales			Front	27 <u>cm</u>	./ω R = 1) Q = H
	left and w and Q rig ales R and H only I		Text		Other
	numbers 5 and 500			PLEX BREVETÉ S.G.D.G. N	
	10-1-0,1, R=from 1-10 f scale the word mu		IN FRANCE red		Red plastic case
at 4, 40, 4 and	4 with left of arrow r	esp. x1, x1/10,			Under slide 2 metal strips 5 mm wide
	1000 in red and on 1 00, x10, x1 and x1/1				
scale one from	5-100-500 and one 0-100-103 with on th	from 0.5-10-50,			
words mm d'ea		e nght blue the			
Grapho	olex Fedra	Rietz 63			Grap 63
slide rule	generic	plastic	153x33x4.5	Graphoplex	12.5 cm closed frame
Scales	200 - 200 - 200 - 200 - 200 - 200		Front	13 <u>cm</u> /	$B^3 B^2 = b^2 a b = B L$
	left, no formulas rig	pht	Back		= S S&T T =
	s left and right ales red, B2, b2, a, l	b and B	Text	lana Foder and with Form	Other
a completely r	ed		(flb) Quot. +1 and (logo Fedra red with F as a fe (rb) Prod1 red.	ather, Curved whole perspex cursor
(I) All scales 2	norizontal lines exc	ept B ^c , b ^c , b and	10		(b) One open window right. Under slide 2 metal strips
B which have	horizontal lines exc 1 horizontal line				3 mm wide. Apart from logo and number identical with

Form Application Material	Sizes	Manufacturer	NCV-code Construction Own nr.
Graphoplex Lignomètre - 7	ypomètre	604	Grap 604
slide rule other plastic	336x41x5.5	Graphoplex	closed frame
Scales	Front	30 <u>cr</u>	n_/67891012
(f) Scale codes left, no formulas right The 6 scales 6, 7, 8, 9, 10 and 12 represent font sizes. With a line in the cursor and a black pointer it can be read how many charactors will fit in the chosen cm reading.	S.G.D.G. MADE I	GRAPHOPLEX BREVETÉ N FRANCE. Name and number the instruction guide.	Other Curved whole perspex cursor No slide, no windows
Graphoplex Rietz 610			Grap 610
slide rule generic plastic	295x30x4	Graphoplex	25 cm closed frame
Scales	Front	КА	= B CI C = D L
5 extending scales red, A, B, CI, C and D CI completely red. On the 0.5 and 5 tick marks a red point in A, B, CI, C and D scale.	RIÉTZ black, (flb) (sfr) vertical Réf.	DPLEX BREVETÉ S.G.D.G. rec Quot. +1 and (frb) Prod1 red 610 trip with formulas and data in 2	Other I, (frt) Curved whole perspex cursor Dark red synthetic case in white and dark red cardboard box On the back side a 16 mm wide 0.2 mm high rim over the full length
Graphoplex 612			Grap 612
slide rule generic plastic	150x32x4.5	Graphoplex	12.5 cm closed frame
Scales	Front	13 <u>cm</u> /	$B^3 B^2 = b^2 a b = B L$
(f) Scale codes left, no formulas right	Back		= S S&T T =
 (b) Scale codes left and right 5 extending scales red, B2, b2, a, b and B a completely red (f) All scales 2 horizontal lines except B², b², b and B which have 1 horizontal line (sb) S&T 2 horizontal lines. S and T have 1 horizontal line 	Text (fib) (sfr) vertical 612		Other Curved whole perspex cursor or flat perspex cursor between two horizontal metal guides Brown leather case in white and dark red cardboard box (b) One open window right. Under slide 2 metal strips 3 mm wide
Graphoplex 612	- M		Grap 612 .01
slide rule generic plastic	152x32.8x4.5	Graphoplex	12.5 cm closed frame
Scales	Front	13 <u>cm</u> /	K A = B CI C = D L
5 extending scales red, A, B, CI, C and D CI completely red (sb) In the T scale numbers for cot and in the S scale numbers for cos are given. The ST scale is shown in degrees and decimal parts of degrees (not in minutes)	Back Text (fil) logo GRAPHO MADE IN FRANC -1 red. (sfl) vertical 612	DPLEX red. (frt) BREVETÉ S.C E red, (fib) Quot. +1 and (frb) F	= S ST T = Other S.D.G. Prod. Curved whole perspex cursor Brown leather case in white and dark red cardboard box (b) One open window right. Under slide 2 metal strips 3 mm wide
Graphoplex 612			Grap 612 .02
slide rule generic plastic	152x32.8x4.5	Graphoplex	12.5 cm closed frame
Scales	Front	and the second se	K A = B CI C = D L
5 extending scales red, A, B, CI, C and D	Back		= S ST T =
CI completely red (sb) In the T and S scale No numbers for cot and cos are given. The ST scale is shown in degrees and per degree 60 minutes with ' instead of decimal parts of degrees.	Text (fit) logo GRAPHO MADE IN FRANC -1 red. (sfl) vertical 612	DPLEX red. (frt) BREVETÉ S.C E red, (fib) Quot. +1 and (frb) F	3.D.G. Prod. Curved whole perspex cursor Brown leather case in white and dark red cardboard box (b) One open window right. Under slide 2 metal strips 3 mm wide
Graphoplex 612			Grap 612 .03
slide rule generic plastic	150x32.2x5.5	Graphoplex	12.5 cm closed frame
Scales	Front	13 <u>cm</u> /	$B^3 B^2 = b^2 a b = B L$
(f) Scale codes left, no formulas right	Back		= S S&T T =
 (b) Scale codes left and right 5 extending scales red, B², b², a, b and B a completely red (f) a scale has 2 horizontal lines others have 1 horizontal line (sb) In the T and S scale No numbers for cot and cos are given. The ST scale is shown in degrees and per degree 60 minutes without ' instead of decimal parts of degrees. (sb) S&T 2 horizontal lines, S and T have 1 horizontal line 	No code number	OPLEX BREVETÉ S.G.D.G. M (flb) Quot. +1 and (frb) Prod1 on rule. Rule is, apart from min ame as the 612's.	red. Uicht brown logtbor coso

Form	Application	n Material	Sizes	Manufacturer	NCV-code	Construction	Own nr.
Grapho	plex 612				Grap 612	.04	
slide rule	generic	plastic	152x32.8x4.5	Graphoplex	12.5 cm	closed frame	
Scales			Front	13 <u>cm</u> /		: = D L	
5 extending s CI completely	cales red, A, B, CI	, C and D	Back		= S ST T =		
(sb) In the T scale number	scale numbers for a solution of the solution o	cot and in the S n. The ST scale is parts of degrees (not	Text (fit) logo GRAPHO MADE IN FRANCE -1 red. (sfl) vertical 612	PLEX red. (frt) BREVETÉ S.C Fred, (fib) Quot. +1 and (frb) P	box (b) One closed	perspex cursor case in white and dark re window 22x11 mm. netal strips 3 mm wide	d cardboard
Grapho	plex 612				Grap 612	.05	1.5
slide rule	Protocology and the state	plastic	144.5x32.3x5.2	Graphoplex	12.5 cm	closed frame	
Scales			Front			: = <u>D L</u>	
(f) No scale o			Back		= S S&T T =		
5 extending s CI completely (f) CI has 2 h (sb) In the T	es left and right cales red, A, B, Cl v red orizontal lines rest and S scale No nu the ST scale is se 60 minutes with of degrees. (sb) S I have 1 horizonta	1 horizontal line Imbers for cot and	Text (frt) logo GRAPHC (frb) MADE IN FR/ Prod1 red.	DPLEX BREVETÉ S.G.D.G. re ANCE red, (fib) Quot. +1 and (f	other ^{rd,} rb) (b)Twoopenw	indows left and right	
Grapho	plex Log	Log Scola	614		Grap 614		
		plastic		Graphoplex	25 cm		
Grapho	plex 615				Grap 615		
slide rule		plastic	185x32x4	Graphoplex	15 cm	closed frame	
Scales			Front	17 <u>cm</u> /		C = D L	
	cales red, A, B, Cl	, C and D	Back		= S ST T =		
degree 60 mi	scale is shown in d nutes with '. Only degree have symb	legrees and per numbers in ST scale ol °. In S and T scale	Text (frt) logo GRAPHO IN FRANCE red, (i (sfr) vertical 615	OPLEX BREVETÉ S.G.D.G. M flb) Quot. +1 and (frb) Prod1	red. Brown leather box (b) One closed	perspex cursor case in white and dark m window right. On the ba nm high rim over the full	ck side a 16
Grapho	plex 615				Grap 615	.01	
slide rule		plastic	185x32x5	Graphoplex	15 cm	closed frame	
Scales			Front	17 <u>cm</u> /	$B^3 B^2 = b^2 a$	b = B L	
(f) Scale cod	es left, no formulas	s right	Back		= S S&T T =		
5 extending s a completely (sb) The ST	scale is shown in d inutes with '. All nu		-1 red.	DPLEX BREVETÉ S.G.D.G. (fr E red, (fib) Quot. +1 and (frb) on rule but on case the numbe	Light brown les	perspex cursor ather case window right. Under slide	2 metal strips
1000	plex 615	;			Grap 615	.02	
slide rule		plastic	185x32x4	Graphoplex	15 cm	closed frame	
Scales	Jenene	L Provine	Front	17 <u>cm</u> /	KA=BCI		
5 extending s	scales red, A, B, C	I, C and D	Back		= S ST T =		
degree 60 m	scale is shown in c inutes with '. Only	legrees and per numbers in ST scale vol °. In S and T scale	Text (frt) logo GRAPHO IN FRANCE red, ((sfr) vertical 615	DPLEX BREVETÉ S.G.D.G. N flb) Quot. +1 and (frb) Prod1	red.	perspex cursor case in white and dark r vindow right	ed cardboard
Grapho	plex 615	Texaco			Grap 615	Texaco	
slide rule		plastic	185x32x5	Graphoplex	15 cm	closed frame	
Scales			Front	17 <u>cm</u> / K A	A = B C C =	D L #°F °C#	
5 extending a a completely (f) Under slid visa versa fro	e scales for conve	and D rsion °F to °C and and -40°C till 310°C	IN FRANCE red, ((sfr) vertical 615. (b) TEXACO logo ENGLER from 20 from 8000-37 and 2000-4 all at diffe	DPLEX BREVETÉ S.G.D.G. M flb) Quot. +1 and (frb) Prod1 -, 4 conversion scales DEGR 0-1,25, 2 scales SAYBOLT UI 1 scale CENTISTOKES from rent temperatures 0°C, 20°C, 100°C. Baril to U.S. Gal. to 1 s. Three scales red. Same sp 615) Caltex. Probably special stry.	red. vertical and 1 lines. NIV. (b) One open v 100°F,	ursor with trapezium sha diagonal red line and 2 vindow right	

	CAR MERCEDING AND	Manufacturer	NCV-code Construction Own nr		
Graphoplex Rietz 620	- 1		Grap 620		
slide rule generic plastic	290x40x6	Graphoplex	25 cm closed frame		
Scales	Front	27 <u>cm</u>	$/ B^3 B^2 = b^2 a b = B L$		
 (f) Scale codes left, no formulas right (b) Scale codes left and right 	Back		= S S&T T =		
5 extending scales B ² , b ² , a, b and B	Text	PLEX BREVETÉ S.G.D.G.	Other		
CI completely red (f) a scale 2 horizontal lines, rest 1 horizontal line	Quot +1 and (frb) F	Prod -1 red	Dark red cardboard case		
(sb) S&T 2 horizontal lines. S and T 1 horizontal lin	e Separate paper st Réf. 1002 11-61. formulas and conv MADE IN FRANCI	rip with formulas and data ir (brb) N° 620 RIETZ. (b) Den version factors. (brm) vertica E	n French (b) One open window right. Under slide 2 metal str sities, 5 mm wide al		
Graphoplex Rietz 620			Grap 620 .01		
slide rule generic plastic	296x39.4x5.5	Graphoplex			
Scales	Front		25 cm closed frame / K A = B CI C = D L		
5 extending scales A, B, CI, C and D	Back		SRT S T<45° C =		
CI completely red	Text	_	Other		
	(flt) logo GRAPHO	PLEX BREVETÉ S.G.D.G. (flb) Curved whole perspex cursor		
	(sfr) vertical Réf. 6	Prod1 red. (Irt) RIETZ	Brown leather case in blue and red cardboard box		
	Separate paper str	ip with formulas and data in			
	Réf. 1002 ¹ (sbl) vertical MADE	IN FRANCE	length		
Graphoplex Rietz 620 a			Grap 620 a		
slide rule generic plastic	296x39.4x5.5	Graphoplex			
Scales	Front		25 cm closed frame / K A = B CI C = D L		
extending scales A, B, CI, C and D	$\frac{27 \text{ Cm}}{\text{Back}} = \text{SRT S } \text{T} < 45^{\circ} \text{ C} =$				
CI completely red	Text Other				
	(flt) logo GRAPHOR	PLEX BREVETÉ S.G.D.G. (1 Prod1 red. (frt) RIETZ	b) Curved whole perspex cursor		
	(sfr) vertical Réf. 62		(br) One closed window 50 mm long right. On the h		
	(sbl) vertical MADE		side a 16 mm wide 0.2 mm high rim over the full		
		IN FRANCE	length		
Graphoplex 620 d		IN PRANCE	liength		
Side rule generic plastic	292x40x6.5		Grap 620 d		
slide rule generic plastic	292x40x6.5 Front	Graphoplex 27cm /	Grap 620 d 25 cm closed frame		
slide rule generic plastic Scales Scale codes left, no formulas right		Graphoplex	Grap 620 d 25 cm closed frame B ³ B ² = b ² a b = B L		
f) Scale codes left, no formulas right b) Scale codes left, no formulas right	Front Back Text	Graphoplex 27 <u>cm</u> /	$\begin{array}{c c c c c c c c c c c c c c c c c c c $		
slide rule generic plastic Scales () Scale codes left, no formulas right b) Scale codes left, no formulas right extending scales red, B ² , b ² , a, b and B completely red. On the 0.5 and 5 tick marks a red	Front Back Text	Graphoplex 27 <u>cm</u> /	$\begin{array}{ c c c c c c } \hline Grap 620 \ d \\ \hline 25 \ cm & closed \ frame \\ \hline B^3 \ B^2 = \ b^2 \ a \ b = B \ L \\ \hline = S \ S\&T \ T \ = \\ \hline Other \\ \hline b) & Flat \ perspex \ cursor \ between two \ borizontal \ metal \\ \hline \end{array}$		
slide rule generic plastic Scales b) Scale codes left, no formulas right b) Scale codes left, no formulas right extending scales red, B ² , b ² , a, b and B completely red. On the 0.5 and 5 tick marks a red oint in B ² , b ² , a, b, and B scale.	Front Back Text (frt) logo GRAPHOF Quot +1 and (frb) Pr Separate paper stri	Graphoplex 27 <u>cm</u> / PLEX BREVETÉ S.G.D.G. (f od -1 red. p with formulas and data in	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		
slide rule generic plastic cales) Scale codes left, no formulas right) Scale codes left, no formulas right extending scales red, B ² , b ² , a, b and B completely red. On the 0.5 and 5 tick marks a red point in B ² , b ² , a, b, and B scale.	Front Back (frt) logo GRAPHOF Quot +1 and (frb) Pr Separate paper stri French, Réf. 1002 -	Graphoplex 27cm / PLEX BREVETÉ S.G.D.G. (f od -1 red. p with formulas and data in 6-60	$\begin{array}{ c c c c c c } \hline Grap 620 \ d \\ \hline 25 \ cm & closed frame \\ \hline B^3 \ B^2 = b^2 \ a \ b = B \ L \\ \hline = S \ S\&T \ T = \\ \hline Other \\ \hline B^1 \ Graphic Control Contr$		
slide rule generic plastic cales) Scale codes left, no formulas right) Scale codes left, no formulas right extending scales red, B ² , b ² , a, b and B completely red. On the 0.5 and 5 tick marks a red oint in B ² , b ² , a, b, and B scale.) a scale 2 horizontal lines, rest 1 horizontal line	Front Back Text (frt) logo GRAPHOF Quot +1 and (frb) Pr Separate paper stri	Graphoplex 27cm / PLEX BREVETÉ S.G.D.G. (f od -1 red. p with formulas and data in 6-60	Grap 620 d 25 cm closed frame B³ B² = b² a b = B L = S S&T T = Other b) Flat perspex cursor between two horizontal metal guides Light brown cardboard case (b) One open window right. Under slide 2 metal strip 5 mm wide		
slide rule generic plastic Scales) Scale codes left, no formulas right b) Scale codes left, no formulas right extending scales red, B ² , b ² , a, b and B completely red. On the 0.5 and 5 tick marks a red point in B ² , b ² , a, b, and B scale.) a scale 2 horizontal lines, rest 1 horizontal line Craphoplex 620 d	Front Back Text (frt) logo GRAPHOF Quot +1 and (frb) Pr Separate paper stri French, Réf. 1002 - (sbr) vertical 620 d	Graphoplex 27 <u>cm</u> / PLEX BREVETÉ S.G.D.G. (f od -1 red. p with formulas and data in 6-60 MADE IN FRANCE	Grap 620 d 25 cm closed frame B³ B² = b² a b = B L = S S&T T = Other b) Flat perspex cursor between two horizontal metal guides Light brown cardboard case (b) One open window right. Under slide 2 metal strip 5 mm wide Grap 620 d .01		
slide rule generic plastic Scales Scale codes left, no formulas right sight b) Scale codes left, no formulas right sight completely red. On the 0.5 and 5 tick marks a red oint in B ² , b ² , a, b, and B scale. scale 2 horizontal lines, rest 1 horizontal line Caraphoplex 620 d	Front Back Text (frt) logo GRAPHOF Quot +1 and (frb) Pr Separate paper stri French, Réf. 1002 - (sbr) vertical 620 d	Graphoplex 27 <u>cm</u> / PLEX BREVETÉ S.G.D.G. (f od -1 red. p with formulas and data in 6-60 MADE IN FRANCE Graphoplex	Imagen Grap 620 d 25 cm closed frame B³ B² = b² a b = B L = S S&T T = Other b) Flat perspex cursor between two horizontal metal guides Light brown cardboard case (b) One open window right. Under slide 2 metal strip 5 mm wide Grap 620 d .01 25 cm 25 cm		
slide rule generic plastic Scales Scale codes left, no formulas right sight b) Scale codes left, no formulas right sight sight b) Scale codes left, no formulas right sight sight completely red. On the 0.5 and 5 tick marks a red oint in 8 ² , b ² , a, b, and B scale. scale 2 horizontal lines, rest 1 horizontal line Caraphoplex 620 d slide rule generic plastic cales slide rule generic	Front Back Text (frt) logo GRAPHOF Quot +1 and (frb) Pr Separate paper stri French, Réf. 1002 - (sbr) vertical 620 d 292x40x6.5 Front	Graphoplex 27 <u>cm</u> / PLEX BREVETÉ S.G.D.G. (f od -1 red. p with formulas and data in 6-60 MADE IN FRANCE Graphoplex 27 <u>cm</u> /	Grap 620 d 25 cm closed frame B³ B² = b² a b = B L = S S&T T = Other b) Flat perspex cursor between two horizontal metal guides Light brown cardboard case (b) One open window right. Under slide 2 metal strip 5 mm wide Grap 620 d .01 25 cm closed frame B³ B² = b² a b = B L		
slide rule generic plastic Scales f) Scale codes left, no formulas right b) Scale codes left, no formulas right b) Scale codes left, no formulas right extending scales red, B ² , b ² , a, b and B completely red. On the 0.5 and 5 tick marks a red oint in B ² , b ² , a, b, and B scale. horizontal lines, rest 1 horizontal line Graphoplex 620 d slide rule generic plastic Scale codes left, no formulas right b) Scale codes left, no formulas right b) Scale codes left, no formulas right	Front Back Text (frt) logo GRAPHOF Quot +1 and (frb) Pr Separate paper stri French, Rét, 1002 - (sbr) vertical 620 d 292x40x6.5 Front Back	Graphoplex 27 <u>cm</u> / PLEX BREVETÉ S.G.D.G. (f od -1 red. p with formulas and data in 6-60 MADE IN FRANCE Graphoplex 27 <u>cm</u> /	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		
slide rule generic plastic Scales Scale codes left, no formulas right sight b) Scale codes left, no formulas right sight sight completely red. On the 0.5 and 5 tick marks a red oint in B ² , b ² , a, b and B scale. scale 2 horizontal lines, rest 1 horizontal line a scale 2 horizontal lines, rest 1 horizontal line generic plastic Scale codes left, no formulas right scale codes left, no formulas right b) Scale codes left, no formulas right scale codes left, no formulas right completely red. On the 0.5 and 5 tick marks a red scale codes left, no formulas right	Front Back Text (frt) logo GRAPHOF Quot +1 and (frb) Pr Separate paper stri French, Réf. 1002 - (sbr) vertical 620 d 292x40x6.5 Front Back Text [(frt) logo GRAPHOP	Graphoplex 27 <u>cm</u> / PLEX BREVETÉ S.G.D.G. (f od -1 red. p with formulas and data in 6-60 MADE IN FRANCE Graphoplex 27 <u>cm</u> / = S LEX BREVETÉ S.G.D.G. (fi	$\begin{array}{c c c c c c c c c c c c c c c c c c c $		
slide rule generic plastic Scales Scale codes left, no formulas right b) Scale codes left, no formulas right b) Scale codes left, no formulas right completely red. On the 0.5 and 5 tick marks a red oint in B², b², a, b, and B scale. b) a scale 2 horizontal lines, rest 1 horizontal line Graphoplex 620 d slide rule generic plastic Scale codes left, no formulas right b) Scale codes left, no formulas right completely red. On the 0.5 and 5 tick marks a red oint in B2, b2, a, b, and B scale.	Front Back Text (frt) logo GRAPHOF Quot +1 and (frb) Pr Separate paper strij French, Réf. 1002 - (sbr) vertical 620 d 292x40x6.5 Front Back Text (frt) logo GRAPHOP Quot +1 and (frb) Pr	Graphoplex 27 <u>cm</u> / PLEX BREVETÉ S.G.D.G. (f od -1 red. p with formulas and data in 6-60 MADE IN FRANCE Graphoplex 27 <u>cm</u> / = S LEX BREVETÉ S.G.D.G. (fl od -1 red.	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		
slide rule generic plastic Scales Scale codes left, no formulas right b) Scale codes left, no formulas right b) Scale codes left, no formulas right completely red. On the 0.5 and 5 tick marks a red oint in B², b², a, b, and B scale. b) a scale 2 horizontal lines, rest 1 horizontal line Graphoplex 620 d slide rule generic plastic Scale codes left, no formulas right b) Scale codes left, no formulas right completely red. On the 0.5 and 5 tick marks a red oint in B2, b2, a, b, and B scale.	Front Back T e xt (frt) logo GRAPHOF Quot +1 and (frb) Pr Separate paper strip French, Rél, 1002 - (sbr) vertical 620 d 292x40x6.5 Front Back T e xt (frt) logo GRAPHOP Quot +1 and (frb) Pr Quot +1 and (frb) Pr Separate paper strip French, Réf. 1002'	Graphoplex 27cm / PLEX BREVETÉ S.G.D.G. (f od -1 red. p with formulas and data in 6-60 MADE IN FRANCE Graphoplex 27cm / = S LEX BREVETÉ S.G.D.G. (fl od -1 red. p with formulas and data in	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		
slide rule generic plastic Scales Scale codes left, no formulas right sight b) Scale codes left, no formulas right sight completely red. On the 0.5 and 5 tick marks a red oint in B², b², a, b, and B scale. scale 2 horizontal lines, rest 1 horizontal line a scale 2 horizontal lines, rest 1 horizontal line generic plastic Scale codes left, no formulas right scale codes left, no formulas right b) Scale codes left, no formulas right scale codes left, no formulas right completely red. On the 0.5 and 5 tick marks a red oint in B2, b2, a, b, and B scale. scale codes left, no formulas right	Front Back Text (Irt) logo GRAPHOF Quot +1 and (Irb) Pr Separate paper strij French, Réf. 1002 - (sbr) vertical 620 d 292x40x6.5 Front Back Text (Irt) logo GRAPHOP Quot +1 and (Irb) Pro Separate paper strip	Graphoplex 27cm / PLEX BREVETÉ S.G.D.G. (f od -1 red. p with formulas and data in 6-60 MADE IN FRANCE Graphoplex 27cm / = S LEX BREVETÉ S.G.D.G. (fl od -1 red. p with formulas and data in	Image:		
slide rule generic plastic Scales Scale codes left, no formulas right b) Scale codes left, no formulas right extending scales red, B², b², a, b and B completely red. On the 0.5 and 5 tick marks a red oint in B², b², a, b, and B scale. a scale 2 horizontal lines, rest 1 horizontal line Araphoplex 620 d slide rule generic scale codes left, no formulas right a scale 2 horizontal lines, rest 1 horizontal line	Front Back T e xt (frt) logo GRAPHOF Quot +1 and (frb) Pr Separate paper strip French, Rél, 1002 - (sbr) vertical 620 d 292x40x6.5 Front Back T e xt (frt) logo GRAPHOP Quot +1 and (frb) Pr Quot +1 and (frb) Pr Separate paper strip French, Réf. 1002'	Graphoplex 27cm / PLEX BREVETÉ S.G.D.G. (f od -1 red. p with formulas and data in 6-60 MADE IN FRANCE Graphoplex 27cm / = S LEX BREVETÉ S.G.D.G. (fl od -1 red. p with formulas and data in	Grap 620 d 25 cm closed frame B³ B² = b² a b = B L = S S&T T = Other b) Flat perspex cursor between two horizontal metal guides Light brown cardboard case (b) One open window right. Under slide 2 metal strip 5 mm wide Grap 620 d .01 25 cm closed frame B³ B² = b² a b = B L Scos. S&T Tctg. = Other b) Flat perspex cursor between two horizontal metal guides Dark red synthetic case in white and red cardboard box (b) One open window right. Under slide 2 metal strip 5 mm wide		
slide rule generic plastic Scales Scale codes left, no formulas right sight a) Scale codes left, no formulas right sight sight a) Scale codes left, no formulas right extending scales red, B², b², a, b and B completely red. On the 0.5 and 5 tick marks a red oint in B², b², a, b, and B scale. a scale 2 horizontal lines, rest 1 horizontal line Araphoplex 620 d slide rule generic plastic cales 0 Scale codes left, no formulas right b) Scale codes left, no formulas right extending scales red, B², b², a, b and B completely red. On the 0.5 and 5 tick marks a red oint in B2, b2, a, b, and B scale. a scale 2 horizontal lines, rest 1 horizontal line	Front Back Text (Ifri) logo GRAPHOF Quot +1 and (Irb) Pr Separate paper strip French, Réf. 1002 - (sbr) vertical 620 d 292x40x6.5 Front Back Text (Irt) logo GRAPHOP Quot +1 and (Irb) Pr Quot +1 and (Irb) Pr Separate paper strip French, Réf. 1002' (sbr) vertical 620 d	Graphoplex 27cm / PLEX BREVETÉ S.G.D.G. (f od -1 red. p with formulas and data in 6-60 MADE IN FRANCE Graphoplex 27cm / = S LEX BREVETÉ S.G.D.G. (fl od -1 red. p with formulas and data in MADE IN FRANCE	Grap 620 d 25 cm closed frame B³ B² = b² a b = B L = S S&T T = Other b) Flat perspex cursor between two horizontal metal guides Light brown cardboard case (b) One open window right. Under slide 2 metal strip 5 mm wide Grap 620 d .01 25 cm closed frame B³ B² = b² a b = B L Scos. S&T Tctg. = Other b) Flat perspex cursor between two horizontal metal guides Dark red synthetic case in white and red cardboard box (b) One open window right. Under slide 2 metal strip 5 mm wide		
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slide rule generic plastic Scales Scale codes left, no formulas right stand bit b) Scale codes left, no formulas right extending scales red, B ² , b ² , a, b and B extending scales red, B ² , b ² , a, b and B completely red. On the 0.5 and 5 tick marks a red oint in B ² , b ² , a, b, and B scale. a scale 2 horizontal lines, rest 1 horizontal line Graphoplex 620 d slide rule generic generic plastic Scale codes left, no formulas right slide codes left, no formulas right slice codes left, no formulas right scale codes left, no formulas right obscale codes left, no formulas right scale codes left, no formulas right a scale 2 horizontal lines, rest 1 horizontal line Araphoplex Rietz 620 d Side rule generic a scale 2 horizontal lines, rest 1 horizontal line Araphoplex Rietz 620 d slide rule slide rule generic plastic cales) Scale codes left and right extendin	Front Back Text (frt) logo GRAPHOF Quot +1 and (frb) Pr Separate paper strip French, Réf. 1002 - (sbr) vertical 620 d 292x40x6.5 Front Back Text (frt) logo GRAPHOP Quot +1 and (frb) Pr Quot +1 and (frb) Pr Separate paper strip French, Réf. 1002' (sbr) vertical 620 d I 292x39.7x5.5 Front Back Text	Graphoplex 27cm / PLEX BREVETÉ S.G.D.G. (f od -1 red. p with formulas and data in 6-60 MADE IN FRANCE Graphoplex 27cm / = S LEX BREVETÉ S.G.D.G. (fl od -1 red. p with formulas and data in MADE IN FRANCE Graphoplex 27cm / = S GRAPHOPLEX BREVETÉ +1 and (frb) Prod -1 red.	Grap 620 d 25 cm closed frame B³ B² = b² a b = B L = S S&T T = Other b) Flat perspex cursor between two horizontal metal guides Light brown cardboard case (b) One open window right. Under slide 2 metal strip 5 mm wide Grap 620 d .01 25 cm closed frame B³ B² = b² a b = B L Scos. S&T Tctg. = Other b) Flat perspex cursor between two horizontal metal guides Dark red synthetic case in white and red cardboard box (b) One open window right. Under slide 2 metal strip 5 mm wide Grap 620 d .02 25 cm closed frame box (b) One open window right. Under slide 2 metal strip 5 mm wide Grap 620 d .02 25 cm 25 cm closed frame K A = B Cl C = D L Scos. S&T Tctg. = Other		

Form Application M	Aaterial	Sizes	Manufacturer	NCV-code	e Construction	Own nr.
Graphoplex Rietz S	621			Grap 62	21	
slide rule generic	plastic	295X46X5	Graphoplex	25 cm	closed frame	
Scales		Front	27 <u>cm</u> / P SRT	A = B T < 45	5° S CI C = D K	L
5 extending scales red, A, B, CI, C an CI completely red. P, cot and cos lette numbers red		instruction guide	21. Text Rietz not on rule but rmulas and data on the back	t on Brown lea	hole perspex cursor ther case in white and dark re	ed cardboard
Graphoplex 630 Gé	omètre	Topograph	ne 400a	Grap 63	30	
slide rule generic	plastic	294x45x5.5	Graphoplex	25 cm	closed frame	4
Scales			$27cm / L B^{3} B =$			1/B ²
(f) Scale codes left, no formulas right		Back		sin sin&tg t	g b² =	
 (b) Scale codes left and right 6 extending scales of which B, sinxcored and 1/B² black (f) All scales 2 horizontal lines excep cos², b and B which have 1 horizontal and cos² in one line (sb) sin&tg and tg scales 2 horizontal b² have 1 horizontal line 	t B, sinxcos, al line. sinxcos		••••••	not on	hole perspex cursor pen window right. Under slide	2 metal strips
Graphoplex 630 Gé	omètre	Topograph	ne 400g	Grap 63	30.01	
slide rule generic	plastic	292x46x6 5	Graphoplex	25 cm	closed frame	and the second
Scales		Front		sinxcos co	$s^2 S&T b = B B^2$	1/B ²
(f) Scale codes left, no formulas right(b) Scale codes left and right		Back	1	sin sin&tg t	g b² =	
6 extending scales of which B, sinxco red and 1/B ² black (f) All scales 2 horizontal lines excep cos ² , b and B which have 1 horizonta and cos ² in one line. Different size nui compared with Grap 630 (sb) sin&tg and tg scales 2 horizontal b ² have 1 horizontal line	t B, sinxcos, al line, sinxcos mbers when	(sfr) 400 g		(h) One or	ex cursor without screws pen window right. Under slide e	2 metal strips
Graphoplex Electric	Log Lo	og 640		Grap 64	40	
slide rule generic	plastic	291x46x6	Graphoplex	25 cm	closed frame	
Scales		Front	27 <u>cm</u> / L B ³ E	$B^2 = b^2 a b$	= B LL3 LL2 LL1	
(f) Scale codes left and right. Right L I C = D	K A = B CI	Back	=	cos sin tg	b =	
 (b) Scale codes left and right 5 extending scales red, B², b², a, b a a completely red. On the 0.5 and 5 ticl point in A, B, C and D scale. (f) All scales 2 horizontal lines except D which have 1 horizontal line (sb) si and tg scales 2 horizontal lines have 1 horizontal line 	k marks a red A, B, C and	(bmb) No 640. ELE Déposée) (b) Form	PLEX BREVETÉ S.G.D.G. re CTRIC LOG - LOG (Marque nulas and data on the back. ip with data Réf. 1.002'	metal guid Dark red o	ex cursor in two horizontal cl des. cardboard case pen window right. Under slide	
Graphoplex Electric	Log Lo	og 640		Grap 64	40.01	
slide rule generic	plastic	295x45x5.5	Graphoplex	25 cm	closed frame	
Scales		Front	The second se	= B K CI (and the second	.1
5 extending scales red, A, B, CI, C an CI completely red. P letters and number		Back	=	ST S T<45°	202	
 (f) All scales 2 horizontal lines except (b) All scales 2 horizontal lines except (b) which have 1 horizontal line (sb) S and T scales 2 horizontal lines. have 1 horizontal line 	B, CI, C and D A, B, C and	IN FRANCE red	PLEX BREVETÉ S.G.D.G. M ip with data Réf. 1.002' MADE IN FRANCE	Dark red a	hole perspex cursor and grey cardboard case in lid pen window right. Under slide e	
Graphoplex Electric	Log Lo	og 640	COLUMN TO A	Grap 64	40.02	
slide rule generic	plastic	295x45x5.5	Graphoplex	25 cm	closed frame	
Scales		Front		= B K CI (.1
5 extending scales red, A, B, Cl, C an		Back	=	SRT S T<45	5°C =	
Cl completely red. P letters and numb 0.5 and 5 tick marks a red point in A, I scale. (f) Numbers below 1 have a 0 before t point.	B, CI, C and D	IN FRANCE red (sfr) vertical Réf. 6	rip with data Réf. 1.002'	Brown lea	hole perspex cursor ather case in white and dark ru- closed window right. On the bi 0.2 mm high rim over the full	

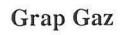
	Sizes Manufacturer	NCV-code Construction Own nr.
Graphoplex 640		Grap 640 .03
slide rule generic plastic	291x46x6 Graphoplex	25 cm closed frame
Scales	5 (107) 5552 TDL7 (TDL7 (TDL7 (TDL7 (TDL 7	$B^2 = b^2 a b = B LL3 LL2 LL1$
) Scale codes left and right. Right L K A = B CI	Back =	cos sin tg b =
b) Scale codes left and right is extending scales red, B^2 , b^2 , a , b and B is completely red. On the 0.5 and 5 tick marks a red is completely red. On the 0.5 and 5 tick marks a red is only in A, B, C and D scale. If All scales 2 horizontal lines except A, B, C and D which have 1 horizontal line sb) sin and Ig scales 2 horizontal lines. cos and b have 1 horizontal line	Text (frt) logo GRAPHOPLEX BREVETÉ S.G.D.G. rd Under slide (Im) PONT-A-MOUSSON purple (sbr) vertical 640 MADE IN FRANCE	ed Flat perspex cursor in two horozontal chrome plated metal guides. (b) One open window right. Under slide 2 metal strip: 5 mm wide
Graphoplex Electric Log Lo	og 640	Grap 640 .04
slide rule generic plastic	291x46x6 Graphoplex	25 cm closed frame
Scales		$B^2 = b^2 a b = B LL3 LL2 LL1$
) Scale codes left, no formulas right	Back =	= cos sin tg b =
b) Formulas left, no scale codes is extending scales red, B^2 , b^2 , a , b and B is completely red. On the 0.5 and 5 tick marks a red woint in A, B, C and D scale. (f) All scales 2 horizontal lines except A, B, C and D which have 1 horizontal line sb) sin and tg scales 2 horizontal lines. cos and b have 1 horizontal line	Text (frt) logo GRAPHOPLEX BREVETÉ S.G.D.G. ru (bmb) <i>No 640. ELECTRIC LOG-LOG (Marque Déposée)</i> . Formulas and data.	other ed Dark red cardboard case
Graphoplex Log Log S 641	1	Grap S 641
slide rule generic plastic	295x56.4x5.5 Graphoplex	25 cm closed frame
Scales	Front 27cm / L K P SRT A	$A = B T < 45^{\circ} S CI C = D LL3 LL2 LL1$
ed.	rule (sfr) vertical Réf. 641 Separate paper strip with formulas and data. F 1.0021	Brown leather case in red and white cardboard box Front and back glossy. lef.
	1.002	- and the second s
Graphoplex Log Log S 641		Grap S 641 .01
Graphoplex Log Log S 641 slide rule generic plastic	1 295x56.4x5.5 Graphoplex	25 cm closed frame
slide rule generic plastic Scales	1	25 cm closed frame = B T<45° S CI C = D LL3 LL2 LL
slide rule generic plastic Scales sextending scales red, A, B, CI, C and D completely red. P letters and numbers red. Letters cot, tg, cos, sin and numbers of cot and cos cos cos	1 295x56.4x5.5 Graphoplex	25 cm closed frame A = B T<45° S CI C = D LL3 LL2 LL
slide rule generic plastic Scales extending scales red, A, B, CI, C and D cl completely red. P letters and numbers red. etters cot, tg, cos, sin and numbers of cot and cos ad.	295x56.4x5.5 Graphoplex Front 27cm / L K P SRT A Text (fit) logo GRAPHOPLEX BREVETÉ S.G.D.G. I IN FRANCE red. Name Log Log S not on the strule (sfr) vertical Réf. 641 Separate paper strip with formulas and data. F 1.002 ¹ .	25 cm closed frame A = B T<45° S CI C = D LL3 LL2 LL
slide rule generic plastic Scales extending scales red, A, B, CI, C and D completely red. P letters and numbers red. cetters cot, tg, cos, sin and numbers of cot and cos ad. cos ad. Graphoplex Electro Log -	295x56.4x5.5 Graphoplex Front 27cm / L K P SRT A Text (fit) logo GRAPHOPLEX BREVETÉ S.G.D.G. I IN FRANCE red. Name Log Log S not on the strule (sfr) vertical Réf. 641 Separate paper strip with formulas and data. F 1.002 ¹ .	25 cm closed frame A = B T<45° S CI C = D LL3 LL2 LL
slide rule generic plastic Scales generic plastic Graphoplex Electro Log I slide rule generic plastic	1 295x56.4x5.5 Graphoplex Front 27cm / L K P SRT A Text (filt) logo GRAPHOPLEX BREVETÉ S.G.D.G. P IN FRANCE red. Name Log Log S not on the s rule (sfr) vertical Réf. 641 Separate paper strip with formulas and data. F 1.002 ^{1.} . Log 643	25 cm closed frame A = B T<45° S CI C = D LL3 LL2 LL
slide rule generic plastic Scales sextending scales red, A, B, CI, C and D CI completely red. P letters and numbers red. Cl completely red. P letters and numbers of cot and cos ed. Graphoplex Electro Log - I Slide rule generic plastic Scales Mark p Subjection Subjection Scales Mark p Subjection plastic Scale codes left, no formulas right Subjection Subjection	1 295x56.4x5.5 Graphoplex Front 27cm / L K P SRT A Text (fit) logo GRAPHOPLEX BREVETÉ S.G.D.G. P IN FRANCE red. Name Log Log S not on the s rule (sfr) vertical Réf. 641 Separate paper strip with formulas and data. F 1.002 ^{1.} LOG 643 152X45X4.5 Graphoplex	25 cm closed frame A = B T<45° S CI C = D LL3 LL2 LL
slide rule generic plastic Scales generic plastic Scales generic plastic Scales generic plastic Scales generic plastic Graphoplex Electro Log I slide rule generic plastic Scales wide mode mode plastic	1 295x56.4x5.5 Graphoplex Front 27cm / L K P SRT A Text (fit) logo GRAPHOPLEX BREVETÉ S.G.D.G. / IN FRANCE red. Name Log Log S not on the strule (sfr) vertical Réf. 641 Separate paper strip with formulas and data. F 1.002 ¹ . LOG 643 152X45X4.5 Graphoplex Front 13cm / L cos E Back Text (frt) logo GRAPHOPLEX BREVETÉ S.G.D.G. / IN FRANCE red. Name Electro Log-Log not on slide rule but in instruction guide (sfr) vertical 643	25 cm closed frame A = B T<45° S CI C = D LL3 LL2 LL
slide rule generic plastic Scales extending scales red, A, B, CI, C and D plastic Scales extending scales red, P letters and numbers red. plastic Completely red. P letters and numbers of cot and cos ad. plastic Graphoplex Electro Log - I slide rule generic plastic Scale s Mark P Mark P Mark P Mark P Scale codes left, no formulas right Suff P Mark P Mark P Scale codes left and right Suff P Mark P Mark P Mark P Scale codes left and right Suff P Mark P Mark P Mark P Mark P Mark P Scale codes left and right Suff P Mark P <thmark p<="" th=""> Mark P Mark P</thmark>	1 295x56.4x5.5 Graphoplex Front 27cm / L K P SRT A Text (fit) logo GRAPHOPLEX BREVETÉ S.G.D.G. / IN FRANCE red. Name Log Log S not on the strule (sfr) vertical Réf. 641 Separate paper strip with formulas and data. F 1.002 ¹ . LOG 643 152X45X4.5 Graphoplex Front 13cm / L cos E Back Text (frt) logo GRAPHOPLEX BREVETÉ S.G.D.G. / IN FRANCE red. Name Electro Log-Log not on slide rule but in instruction guide (sfr) vertical 643	25 cm closed frame A = B T<45° S CI C = D LL3 LL2 LL
slide rule generic plastic scales extending scales red, A, B, CI, C and D plastic i completely red. P letters and numbers red. etters cot, tg, cos, sin and numbers of cot and cos Graphoplex Electro Log - I slide rule generic plastic Scales Mark Mark plastic Scale codes left, no formulas right Scale Scale codes left and right slide rule generic plastic Scale codes left and right Scale Scale scales red, B ² , b ² , a, b and B Scale codes left and right scale Scale scales red, B ² , b ² , a, b and B Scale scales 2 horizontal lines scale start and numbers red All scales 2 horizontal line S and T have 2 horizontal lines, S&T and b have horizontal line S&T and b have Saraphoplex 645	1 295x56.4x5.5 Graphoplex Front 27cm / L K P SRT A Text (fit) logo GRAPHOPLEX BREVETÉ S.G.D.G. / IN FRANCE red. Name Log Log S not on the strule (sfr) vertical Réf. 641 Separate paper strip with formulas and data. F 1.002 ¹ . LOG 643 152X45X4.5 Graphoplex Front 13cm / L cos E Back Text (frt) logo GRAPHOPLEX BREVETÉ S.G.D.G. / IN FRANCE red. Name Electro Log-Log not on slide rule but in instruction guide (sfr) vertical 643	25 cm closed frame A = B T<45° S CI C = D LL3 LL2 LL
slide rule generic plastic Scales extending scales red, A, B, CI, C and D plastic I completely red. P letters and numbers red. etters cot, tg, cos, sin and numbers of cot and cos Graphoplex Electro Log - I slide rule generic plastic Scales Mode plastic Scale codes left, no formulas right plastic Scale codes left and right plastic o) Scale codes left and right plastic extending scales red, B ² , b ² , a, b and B completely red, cos letters and numbers red All scales 2 horizontal lines except B ² , b ² , b and o) S and T have 2 horizontal lines, S&T and b have horizontal line S&T and b have horizontal line Graphoplex 645	1 295x56.4x5.5 Graphoplex Front 27cm / L K P SRT A Text (fit) logo GRAPHOPLEX BREVETÉ S.G.D.G. / IN FRANCE red. Name Log Log S not on the s rule (sfr) vertical Réf. 641 Separate paper strip with formulas and data. F 1.002 ¹ . 152X45X4.5 Graphoplex Front 13cm / L cos E Back	25 cm closed frame A = B T<45° S CI C = D LL3 LL2 LL

Form Application Material Sizes Manufacturer	NCV-code Construction Own nr.
Graphoplex 647	Grap 647
slide rule generic plastic 293x45.5x5.5 Graphoplex	25 cm closed frame
Scales Front 27cm / K P A	
6 extending scales red, A, B, AI, CI, C and D red Back =	L LL1 LL2 LL3 =
numbers red. On the 0.5 and 5 tick marks a red point I EXT in A. B. C. and D. scale. (filt) logo GRAPHOPLEX BREVETÉ S.G.D.G. M	ADE Other
(f) All scales 2 horizontal lines except A, B, C and D which have 1 horizontal line IN FRANCE red Paper strip with formulas and data on the back	Dark red synthetic case in white and dark red
(b) All scales 2 horizontal line except L which has 1 1.002'	C. Her. cardboard box Under slide 2 metal strips 5 mm wide
horizontal line ((sbl) vertical 647	
Graphoplex Electro 650	Grap 650
slide rule generic plastic 153x44.8x4.8 Graphoplex Scales Front 13cm / L B ³ cosø B ²	12.5 cm closed frame = b ² a b = B cosø DYNAMO MOTEUR
Scales Front 13cm / L B ³ cosø B ² (f) Scale codes left, no formulas right. First cosø,	= b ² a b = B cosø DYNAMO MOTEUR VOLT
MOTEUR and VOLT right Back	= S&T S T b =
(b) Scale codes left and right no formulas right 5 extending scales red, B ² , b ² , a, b and B	Other
a and DYNAMO completely red. (f) DYNAMO and MOTEUR scales in one line. First	50 is
cosø from 0.8-0.72 and second cosø from	t) at B ² (b) One open window right. Under slide 2 metal strips 5 mm wide
0.68-0.995. All scales 2 horizontal lines except B ² , b ² , b and B which have 1 horizontal line (sfr) At b ² scale level PS red	the strength of the strength of the
(sb) S and T scales 2 horizontal lines, S&T and b have 1 horizontal line	
Graphoplex Geopolytechnic 670	Grap 670
Scales plastic Graphoplex	25 cm
Text	Other
Graphoplex Neperlog 690	Cran 600
	Grap 690 25 cm open frame
5	25 cm open frame T<45°
	= CF CIF K CI C = D LL3 LL2 LL1
LL01, LL02 and LL03 letters and numbers red	Other
which have 1 horizontal line	e rule
and D which have 1 horizontal line except DF, CF, C (brt)*, (brb) *	Light grey end plates on front Slide 20 mm wide
(sbr) vertical 690	
Graphoplex Neperlog 690	Grap 690 .01
slide rule generic plastic 336X45x5 Graphoplex	25 cm open frame = B T1 S&T S = D T2 DI K
ovaroo	= CF CIF CI C = D LL3 LL2 LL1
cig. (b) Scale ender left an formulae right Text	Other
AI, DI, CIF and C completely red, P, cot, cos, cot, LL01, LL02 and LL03 letters and numbers red	MADE Curved whole perspex cursor
(I) All scales 2 portage lines except A B S and D ((brt) long GRAPHOPI EX BREVETÉ S G D G	MADE
(b) All scales 2 horizontal lines except DF, CF, C (sbr) vertical 690	
and D which have 1 horizontal line	
Graphoplex Neperlog 690 a	Grap 690 a
slide rule generic plastic 336x48.5x5.5 Graphoplex	25 cm open frame
Scales Front LL00 L T>45° A =	B T<45° SRT S C = D P DI LLO
Scales Front LL00 L T>45° A = (f) Scale codes left, formulas right except on slide Back LL01 LL02 LL03 DF (b) Scale codes left, formulas right except on slide Toxt Toxt Toxt	B T<45° SRT S C = D P DI LL0 = CF CIF K CI C = D LL3 LL2 LL1
Scales Front LL00 L T>45° A = (f) Scale codes left, formulas right except on slide Back LL01 LL02 LL03 DF (b) Scale codes left, formulas right except on slide 5 extending scales red, A, B, C, D and C Text Ising completely red LL01 LL02 LL03 DF DL CIE and Cl completely red LL00 P LL01 LL02 LSG, D, G	B T<45° SRT S C = D P DI LL0 = CF CIF K CI C = D LL3 LL2 LL1 Other MADE Curved whole perspex cursor with 1 white srew
Scales Front LL00 L <thl< th=""> L L L <t< td=""><td>B T<45° SRT S C = D P DI LL0 = CF CIF K CI C = D LL3 LL2 LL1 Other MADE Curved whole perspex cursor with 1 white srew e rule. Dark grey end plates on front and back each with 2</td></t<></thl<>	B T<45° SRT S C = D P DI LL0 = CF CIF K CI C = D LL3 LL2 LL1 Other MADE Curved whole perspex cursor with 1 white srew e rule. Dark grey end plates on front and back each with 2
Scale s Front LL00 L L>45° A = (I) Scale codes left, formulas right except on slide Back LL01 LL02 LL03 DF (b) Scale codes left, formulas right except on slide Eack LL01 LL02 LL03 DF 5 extending scales red, A, B, C, D and C DI, CIF and Cl completely red. LL00, P, LL01, LL02 IN FRANCE red. Name Neperlog is not on slid Inumbers red (sfr) logo GRAPHOPLEX BREVETÉ S.G.D.G (I) In SRT scale 1 horizontal line (sbr) logo Graphoplex BREVETÉ S.G.D.G, MA	B T<45° SRT S C = D P DI LL0 = CF CIF K CI C = D LL3 LL2 LL1 Other MADE Curved whole perspex cursor with 1 white srew e rule. Dark grey end plates on front and back each with 2 grey rubber knobs DE IN Brown leather case
Scales Front LL00 L L>45° A = (f) Scale codes left, formulas right except on slide (b) Scale codes left, formulas right except on slide 5 extending scales red, A, B, C, D and C Back LL01 LL02 LL03 DF DI, CIF and Cl completely red. LL00, P, LL01, LL02 and LL03 letters and numbers red. cotg and cos numbers red (sfr) logo GRAPHOPLEX BREVETÉ S.G.D.G IN FRANCE red. Name Neperlog is not on slid Separate paper strip with formulas and other d	B T<45° SRT S C = D P DI LL0 = CF CIF K CI C = D LL3 LL2 LL1 Other MADE Curved whole perspex cursor with 1 white srew e rule. Dark grey end plates on front and back each with 2 grey rubber knobs DE IN Brown leather case
ScalesFrontLL00LT>45°A =(f) Scale codes left, formulas right except on slide (b) Scale codes left, formulas right except on slide 5 extending scales red, A, B, C, D and CBackLL01LL02LL03DFDI, CIF and CI completely red. LL00, P, LL01, LL02 and LL03 letters and numbers red (l) In SRT scale 1 horizontal line (b) In K scale 1 horizontal line (b) In K scale 1 horizontal lineFrontLL00LT>45°A =BackLL01LL02LL03DFBackLL01LL02LL03DFCompletely red. LL00, P, LL01, LL02 numbers red(sfr) logo GRAPHOPLEXBREVETÉ S.G.D.G.(I) In SRT scale 1 horizontal line (b) In K scale 1 horizontal lineSeparate paper strip with formulas and other d (sbr) logo Graphoplex BREVETÉ S.G.D.G. MA	B T<45° SRT S C = D P DI LL0 = CF CIF K CI C = D LL3 LL2 LL1 Other MADE Curved whole perspex cursor with 1 white srew Park grey end plates on front and back each with 2 grey rubber knobs DE IN Brown leather case
ScalesFrontLL00LT>45°A =(f) Scale codes left, formulas right except on slide (b) Scale codes left, formulas right except on slide 5 extending scales red, A, B, C, D and C DI, CIF and CI completely red. LL00, P, LL01, LL02 and LL03 letters and numbers red.BackLL01LL02LL03DF(b) Scale codes left, formulas right except on slide 5 extending scales red, A, B, C, D and C DI, CIF and CI completely red. LL00, P, LL01, LL02 and LL03 letters and numbers red.Separate paper strip with formulas and other d (sbr) logo Graphoplex BREVETÉ S.G.D.G, MA FRANCE red and vertical 690a red. On leather 690 is printed	B T<45° SRT S C = D P DI LL0 = CF CIF K CI C = D LL3 LL2 LL1 Other MADE Curved whole perspex cursor with 1 white srew e rule. ata Dark grey end plates on front and back each with 2 grey rubber knobs DE IN Brown leather case
Scales Front LL00 L L>45° A a (f) Scale codes left, formulas right except on slide (b) Scale codes left, formulas right except on slide 5 extending scales red, A, B, C, D and C Back LL01 LL02 LL03 DF DI, CIF and Cl completely red. LL00, P, LL01, LL02 and LL03 letters and numbers red. cotg and cos (sfr) logo GRAPHOPLEX BREVETÉ S.G.D.G. IN FRANCE red. Name Neperlog is not on slide Separate paper strip with formulas and other d (sbr) logo Graphoplex BREVETÉ S.G.D.G. MA FRANCE red and vertical 690a red. On leathe 690 is printed Graphoplex Neperlog Hyperbolic 691 a slide rule generic plastic 338x48.7x4.2 Graphoplex Scales Front L P Ch A = B Front L P Ch A = B Front L P Ch A = B	B T<45° SRT S C = D P DI LL0 = CF CIF K CI C = D LL3 LL2 LL1 Other MADE e rule. Dark grey end plates on front and back each with 2 grey rubber knobs DE IN r case Grap 691 a 25 cm open frame T<45° ST S C = D Th Sh2 Sh1
Scales Front LL00 L <	B T<45° SRT S C = D P DI LL0
Scales Front LL00 L <	B T<45° SRT S C = D P DI LL0 = CF CIF K CI C = D LL3 LL2 LL1 Other MADE e rule. ata grey rubber knobs DE IN r case Grap 691 a 25 cm open frame T<45° ST S C = D Th Sh2 Sh1 = CF CIF K CI C = D LL3 LL2 LL1 Other
Scales Front LL00 L T>45° A = Back LL01 LL02 LL03 DF Back LL01 LL02 LL03 DF DI, CIF and CI completely red. LL00, P, LL01, LL02 and LL03 letters and numbers red. cotg and cos numbers red (I) In SRT scale 1 horizontal line (I) In SRT scale 1 horizontal line (b) In K scale 1 horizontal line (c) In SRT scale 1 horizontal line (b) In K scale 1 horizontal line (c) In C Bastic Sale x Everté S.G.D.G. MA Front L P Ch A = B 4 extending scales red, A, B, C and D CIF and CI completely red. P, LL01, LL02 and LL03 Front L P Ch A = B Back LL01 LL02 LL03 <td>B T<45° SRT S C = D P DI LL0</td> = CF CIF K CI C = D LL3 LL2 LL1 Other MADE Curved whole perspex cursor with 1 white srew e rule. Dark grey end plates on front and back each with 2 grey rubber knobs DE IN Brown leather case T<45° ST S C = D Th Sh2 Sh1	B T<45° SRT S C = D P DI LL0
Scales Front LL00 L <	B T<45° SRT S C = D P DI LL0 = CF CIF K CI C = D LL3 LL2 LL1 Other MADE e rule. ata grey rubber knobs DE IN r case Grap 691 a 25 cm open frame T<45° ST S C = D Th Sh2 Sh1 = CF CIF K CI C = D LL3 LL2 LL1 Other MADE Curved whole perspex cursor with 1 white srew Dark grey end plates on front and back each with 2 grey rubber knobs

	Sizes	Manufacturer	NCV-code Construction Own nr.
Graphoplex 692 a			Grap 692 a
slide rule generic plastic	185x44x3	Graphoplex	12.5 cm closed frame
Scales		LLOO L T>45° A =	
4 extending scales red, A, B, C and D P, DI, CIF and CI completely red. LL00, LL01, LL02	States and a second second	1 LL02 LL03 DF =	
(f) In A, B, ST, C and D scale 1 horizontal line (b) In DF, CF, K, C and D scale 1 horizontal line	IN FRANCE red, (IOPLEX BREVETÉ S.G.D.G.	Dark grey end plates on back
Graphoplex 692 b			Grap 692 b
slide rule generic plastic	185x44x3	Graphoplex	12.5 cm closed frame
Scales		LOO L T>45° A =	B T<45° SRT S C = D P DI LL0
 (f) Scale codes left, formulas right except on slide. No text tg cot, Sin tg or Sin cos on the right. (b) Scale codes left, formulas right except on slide 4 extending scales red, A, B, C and D P, DI, CIF and CI completely red, LL00, LL01, LL02 and LL03 letters and numbers red. cotg, cotg and cos numbers red (f) In SRT scale 1 horizontal line (b) In K scale 1 horizontal line 	Back LLO , Text (sfr) logo GRAPH IN FRANCE red, (s	OPLEX BREVETÉ S.G.D.G.	Other
Graphoplex Tecnilog 694 a	a		Grap 694 a
slide rule generic plastic	330X39x4.4	Graphoplex	25 cm open frame
Scales	Front		B T<45° SRT S C = D DI K
DI, CIF and CI completely red. P, cot, cot and cos letters and numbers red.	Back	L LL3 DF =	CF CIF CI C = D LL2 LL1
	IN FRANCE red Separate paper sti Réf. 1.002'	DPLEX BREVETÉ S.G.D.G. M rip with formulas and data, cc blex BREVETÉ S.G.D.G. MAC) vertical Réf. 694 a. Text Tec h instruction guide.	Grey end plates on front Light brown leather case in blue white and red
A			
Graphoplex 695			Grap 695
Graphoplex 695 slide rule generic plastic	336x49x4	Graphoplex	25 cm closed frame
	Front P1	P2 T>45° A = B	25 cm closed frame T<45° ST S C = D DI L(Dd-Rd) 1)
slide rule generic plastic	Front P1 Back LL0 Text (fit) logo GRAPHC IN FRANCE red	P2 T>45° A = B	25 cm closed frame T<45° ST S C = D DI L(Dd-Rd) 1) = CF CIF K CI C = D LL3 LL2 LL1 Other
slide rule generic plastic Scales 4 extending scales red A, B, C and D DI, CIF and CI completely red, P1, P2, cot, cot, cos, Dd, Minutes sexag, LL01, LL02 and LL03 letters and numbers red, in ST scale numbers 84-89 red. (f) First 2.5 cm of L (Dd-Rd) scale Dd from 0,0-0,1 there alter Rd from 0,1-1,0 with right of the scale Lox X · Rd, 1)=first 2.5 cm Minutes sexag. from 0-6' and on the same line Rd with right of the scale 180/π Degrés-décimaux	Front P1 Back LL0 Text (fit) logo GRAPHC IN FRANCE red	P2 T>45° A = B 1 LL02 LL03 DF :	25 cm closed frame T<45° ST S C = D DI L(Dd-Rd) 1)
slide rule generic plastic Scales 4 extending scales red A, B, C and D DI, CIF and CI completely red, P1, P2, cot, cot, cos, Dd, Minutes sexag, LL01, LL02 and LL03 letters and numbers red, in ST scale numbers 84-89 red. (f) First 2.5 cm of L (Dd-Rd) scale Dd from 0,0-0,1 there after Rd from 0,1-1,0 with right of the scale Lox X - Rd, 1)=first 2.5 cm Minutes sexag, from 0-6' and on the same line Rd with right of the scale 180/m	Front P1 Back LL0 Text (fit) logo GRAPHC IN FRANCE red	P2 T>45° A = B 11 LLO2 LLO3 DF : PLEX BREVETÉ S.G.D.G. M	25 cm closed frame T<45° ST S C = D DI L(Dd-Rd) 1)
slide rule generic plastic Scales 4 extending scales red A, B, C and D DI, CIF and CI completely red, P1, P2, cot, cot, cos, Dd, Minutes sexag, LL01, LL02 and LL03 letters and numbers red, in ST scale numbers 84-89 red. (f) First 2.5 cm of L (Dd-Rd) scale Dd from 0,0-0,1 there after Rd from 0,1-1,0 with right of the scale L80/x X - Rd, 1)=first 2.5 cm Minutes sexag, from 0-6' and on the same line Rd with right of the scale 180/x Degrés-décimaux Graphoplex 697	Front P1 Back LL0 Text (fit) logo GRAPHC IN FRANCE red (sbr) vertical 695 (sbr) vertical 695	P2 T>45° A = B 11 LLO2 LLO3 DF : PLEX BREVETÉ S.G.D.G. M Graphoplex	25 cm closed frame T<45° ST S C = D DI L(Dd-Rd) 1)
slide rule generic plastic Scales 4 extending scales red A, B, C and D DI, CIF and CI completely red, P1, P2, cot, cot, cos, Dd, Minutes sexag, LL01, LL02 and LL03 letters and numbers red, in ST scale numbers 84-89 red. (f) First 2.5 cm of L (Dd-Rd) scale Dd from 0,0-0,1 there after Rd from 0,1-1,0 with right of the scale Lox X - Rd, 1)-aftrst 2.5 cm Minutes sexag, from 0-6' and on the same line Rd with right of the scale 180/π Degrés-décimaux Graphoplex 697 slide rule generic plastic Scales 5 extending scales red, A, B, CI, C and D	Front P1 Back LL0 Text (fit) logo GRAPHC IN FRANCE red (sbr) vertical 695 (sbr) vertical 695	P2 T>45° A = B 11 LLO2 LLO3 DF = PLEX BREVETÉ S.G.D.G. M Graphoplex 1) Dyn./M Volts A	25 cm closed frame T<45° ST S C = D DI L(Dd-Rd) 1)
slide rule generic plastic Scales 4 extending scales red A, B, C and D DI, CIF and CI completely red, P1, P2, cot, cot, cos, Dd, Minutes sexag, LL01, LL02 and LL03 letters and numbers red, in ST scale numbers 84-89 red. (f) First 2.5 cm of L (Dd-Rd) scale Dd from 0,0-0,1 there after Rd from 0,1-1,0 with right of the scale Lox X - Rd, 1)=first 2.5 cm Minutes sexag, from 0-6' and on the same line Rd with right of the scale 180/π Degrès-décimaux Graphoplex 697 slide rule generic plastic	Front P1 Back LL0 Text (fit) logo GRAPHC IN FRANCE red (sbr) vertical 695 (sbr) vertical 695 337x48.3x4.2 Front L Back Text (fib) triangle pointific Cap. red, (frb) logo S.G.D.G. MADE IN Separate paper str Réf. 1.0021	P2 T>45° A = B 1 LL02 LL03 DF = PLEX BREVETÉ S.G.D.G. M Graphoplex 1) Dyn./M Volts A ST T S DF = CF T S DF = CF TRANCE red ip with formulas and data, co DEX BREVETÉ S.G.D.G. MAD	25 cm closed frame T<45° ST S C = D DI L(Dd-Rd) 1)
slide rule generic plastic Scales 4 extending scales red A, B, C and D DI, CIF and CI completely red, P1, P2, cot, cot, cos, Dd, Minutes sexag, LL01, LL02 and LL03 letters and numbers red, in ST scale numbers 84-89 red. (f) First 2.5 cm of L (Dd-Rd) scale Dd from 0,0-0,1 there after Rd from 0,1-1,0 with right of the scale Lox X - Rd, 1)=first 2.5 cm Minutes sexag, from 0-6' and on the same line Rd with right of the scale 180/π Degrès-décimaux Graphoplex 697 slide rule generic plastic Scales 5 extending scales red, A, B, CI, C and D Dyn, Cap, CI, DI, CIF and CI completely red. décibels from 0-20 in the same scale as L, Dyn, from 15-100 and M from 100-15 on the same line, Cap, from 15-105 pf and Ind, from 10mH-0,1µH on the same line, f=from 10 kHz-500	Front P1 Back LL0 Text (fit) logo GRAPHC IN FRANCE red (sbr) vertical 695 337x48.3x4.2 Front Back L Text (fib) triangle pointif Cap. red, (frb) logo S.G.D.G. MADE IN Separate paper str Réf. 1.0021 (sbr) logo Graphor Scaphor	P2 T>45° A = B 1 LL02 LL03 DF = PLEX BREVETÉ S.G.D.G. M Graphoplex 1) Dyn./M Volts A ST T S DF = CF T S DF = CF TRANCE red ip with formulas and data, co DEX BREVETÉ S.G.D.G. MAD	25 cm closed frame T<45° ST S C = D DI L(Dd-Rd) 1)
slide rule generic plastic Scales 4 extending scales red A, B, C and D DI, CIF and CI completely red, P1, P2, cot, cot, cos, Dd, Minutes sexag, LL01, LL02 and LL03 letters and numbers red, in ST scale numbers 84-89 red. (f) First 2.5 cm of L (Dd-Rd) scale Dd from 0,0-0,1 there after Rd from 0,1-1,0 with right of the scale LoX X - Rd, 1)=first 2.5 cm Minutes sexag, from 0-6' and on the same line Rd with right of the scale 180/π Degrés-décimaux Graphoplex 697 slide rule generic plastic Scales 5 extending scales red, A, B, CI, C and D Dyn, Cap., CI, DI, CIF and CI completely red. décibels, cot and cos letters and numbers red. In ST scale numbers 89-84 red. (f) 1)=décibels from 0-20 in the same scale as L, Dyn, from 15-100 and M from 100-15 on the same line, Cap. from 1pF-105 pF and Ind. from 10mH-0,1µH on the same line, f=from 10 kHz-500 MHz, & from 30000 m-0,6 m	Front P1 Back LL0 Text (fit) logo GRAPHC IN FRANCE red (sbr) vertical 695 (sbr) vertical 695 337x48.3x4.2 Front L Back Text (fib) triangle pointificap. red, (frb) logo S.G.D.G. MADE IN Separate paper str Réf. 1.0021 (sbr) logo Graphop FRANCE red, (sbr)	P2 T>45° A = B 1 LL02 LL03 DF = PLEX BREVETÉ S.G.D.G. M Graphoplex 1) Dyn./M Volts A ST T S DF = CF T S DF = CF TRANCE red ip with formulas and data, co DEX BREVETÉ S.G.D.G. MAD	25 cm closed frame T<45° ST S C = D DI L(Dd-Rd) 1)
slide rule generic plastic Scales 4 extending scales red A, B, C and D DI, CIF and CI completely red, P1, P2, cot, cot, cos, Dd, Minutes sexag, LL01, LL02 and LL03 letters and numbers red, in ST scale numbers 84-89 red. (f) First 2.5 cm of L (Dd-Rd) scale Dd from 0,0-0,1 there alter Rd from 0,1-1,0 with right of the scale Lox X - Rd, 1)-afirst 2.5 cm Minutes sexag, from 0-6' and on the same line Rd with right of the scale 180/π Degrés-décimaux Graphoplex 697 slide rule generic plastic Scales 5 extending scales red, A, B, CI, C and D Dyn., Cap., CI, DI, CIF and CI completely red. décibels, cot and cos letters and numbers red. In ST scale numbers 88-48 red. (f) 1)=décibels from 0-20 in the same scale as L, Dyn., from 15-100 and M from 100-15 on the same line, Cap. from 19F-105 pF and Ind. from 10 MH2-500 MHz, A from 30000 m-0,6 m Graphoplex Electronicien	Front P1 Back LL0 Text (fit) logo GRAPHC IN FRANCE red (sbr) vertical 695 (sbr) vertical 695 337x48.3x4.2 Front L Back Text (fib) triangle pointin Cap. red, (frb) logo S.G.D.G. MADE IN Separate paper str Réf. 1.0021 (sbr) logo Graphop FRANCE red, (sbr) 698 335x48x4	P2 T>45° A = B 1 LLO2 LLO3 DF = PLEX BREVETÉ S.G.D.G. M PLEX BREVETÉ S.G.D.G. M Graphoplex 1) Dyn./M Volts A ST T S DF = CF ST T S DF = CF ip with formulas and data, co blex BREVETÉ S.G.D.G. MAD vertical 697 Graphoplex	25 cm closed frame T<45° ST S C = D DI L(Dd-Rd) 1)
slide rule generic plastic Scales 4 extending scales red A, B, C and D DI, CIF and CI completely red, P1, P2, cot, cot, cos, Dd, Minutes sexag, LL01, LL02 and LL03 letters and numbers red, in ST scale numbers 84-89 red. (f) First 2.5 cm of L (Dd-Rd) scale Dd from 0,0-0,1 there after Rd from 0,1-1,0 with right of the scale Lox X - Rd, 1)=first 2.5 cm Minutes sexag. from 0-6' and on the same line Rd with right of the scale 180/π Degrès-décimaux Graphoplex 697 slide rule generic plastic Scales 5 extending scales red, A, B, CI, C and D Dyn., Cap., CI, DI, CIF and Cl completely red. décibels, cot and cos letters and numbers red. In ST scale numbers 89-84 red. (f) 1)=décibels from 0-20 in the same scale as L, Dyn, from 15-100 and M from 100-15 on the same line, Cap. from 19F-105 pF and Ind. from 10mH-0,1µH on the same line, f=from 10 kHz-500 MHz, A from 30000 m-0,6 m	Front P1 Back LL0 Text (fit) logo GRAPHC IN FRANCE red (sbr) vertical 695 337x48.3x4.2 Front Back L Text (fit) triangle pointin Cap. red, (frb) logo S.G. MADE IN Separate paper str Réf. 1.0021 (sbr) logo Graphop FRANCE red, (sbr) 698 335x48x4 Text (fit) triangle pointin Cap. red, (it) logo Graphop FRANCE red, (sbr) Separate paper str Réf. 1.0021 (sbr) logo Graphop FRANCE red, (sbr) Generate red, (sbr)	P2 T>45° A = B P2 T>45° A = B P1 LL02 LL03 DF = PLEX BREVETÉ S.G.D.G. M PLEX BREVETÉ S.G.D.G. M Graphoplex T S DF = CF T S DF = CF T S DF = CF T S DF = CF T S DF = CF C Graphoplex ST T S DF = CF Graphoplex XC f XL A = B ST T S DF = CF T S DF = CF	25 cm closed frame T<45° ST S C = D DI L(Dd-Rd) 1)

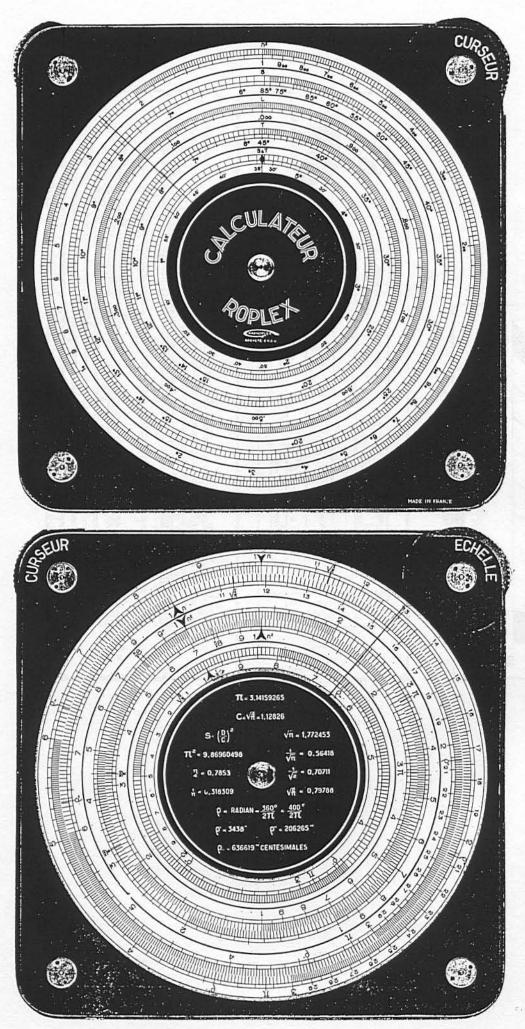
Form Application Material	Sizes Manufacturer	NCV-code Construction Own nr.
Graphoplex Electronicien 6	98	Grap 698 .01
slide rule generic plastic	335x48x4 Graphoplex	25 cm open frame
Scales		L Cap CI C = D f' f Log x-décibels
 (f) A, B, Cl, C, D and LogX-décibels left, f, XC, f, XL, L, Cap, f, f and LogX-décibels right (b) In T and S scale resp cot and cos. 4 extending scales red A, B, C and D f XL, L, Cl, f, ClF and Cl completely red, letters ap. from Cap red, letters and numbers from décibels, cot and cos red. (f) f from 1GHz-0.1Hz, XC from 0.01Ω-100MΩ, f from 0.1 Hz-1GHz, L from 100H-0.1µH, Cap from 1pF-1000µF, f from10kHz-500 MHz, I from 1Hz-50 kHz and décibels from 0-20 	Back ST T S DF = CF Text (fib) triangle pointing at 1 in the D scale and wo Cap. red, (fit) logo GRAPHOPLEX BREVETÉ S.G.D.G. MADE IN FRANCE red. Name Electror is not on slide rule. (sfr) vertical logo GRAPHOPLEX BREVETÉ S.C MADE IN FRANCE red (sfr) vertical logo GRAPHOPLEX BREVETÉ S.C MADE IN FRANCE red (sbr) vertical line and f red (sbr) a vertical line and λ red, (sbr) vertical 698 (sbr) vertical line and λ red, (sbr) vertical 698	Dinclen Dark grey end plates on front and back each with 2 grey rubber knobs G.D.G.
Graphoplex Décilog 699		Grap 699
slide rule generic plastic	332x39x4.2 Graphoplex	25 cm open frame
Scales		B T SRT S C = D DI LL1
(f) Scale codes left, formulas right except on slide (b) Scale codes left, formulas right except on slide 6 extending scales red, A, B, C, D, C and D DI, CIF and CI completely red. LL01, LL02 and LL03 letters and numbers red, cot and cos numbers red.	Back LL02 LL03 DF = Text [sfr) logo GRAPHOPLEX BREVETÉ S.G.D.G. I IN FRANCE red, (sfr) vertical 699. Text Décilog on slide rule but on instruction guide. Separate paper strip with formulas and data, cc Réf. 1.002' [sbr) vertical logo Graphoplex FRANCE red	MADE Curved whole perspex cursor with 1 screw not Dark grey end plates on front and back each with 2 grey rubber knobs
Graphoplex 1600		Grap 1600
	298x45.6x3.6 Graphoplex	25 cm closed frame
slide rule generic plastic		$A = B K CI C = D S ST T<45^{\circ}$
5 extending scales red, A, B, CI, C and D CI completely red. cot, cos and cot letters and numbers red	Text (flt) logo GRAPHOPLEX BREVETÉ S.G.D.G. M IN FRÂNCE red (sfr) vertical 1600 Separate paper strip with formulas and data, co Réf. 1.0021	Dark red synthetic case
Graphoplex 1600		Grap 1600 .01
slide rule generic plastic	298x45.6x3.6 Graphoplex	25 cm closed frame
Scales	Front 27 <u>cm</u> / L T>45°	$A = B K CI C = D S ST T < 45^{\circ}$
5 extending scales red, A, B, CI, C and D CI completely red. cot, cos and cot letters and numbers red (f) In cos scale the number 20 red is present	Text (flt) logo GRAPHOPLEX BREVETÉ S.G.D.G. M IN FRANCE red (sfr) vertical 1600 Separate paper strip with formulas and data, co Réf. 1.0021	Dark red synthetic case and beige and white cardboard box
Graphoplex 1600		Grap 1600 .02
slide rule generic plastic	298x45x3.6 Graphoplex	25 cm closed frame
Scales		$A = B K CI C = D S ST T < 45^{\circ}$
5 extending scales red, A, B, CI, C and D CI completely red. cot, cos and cot letters and numbers red Under A, B, C and D blue	Text (flt) logo GRAPHOPLEX BREVETÉ S.G.D.G. M IN FRANCE red (sfr) vertical 1600 Separate paper strip with formulas and data, cr Réf. 1.0021	Dark red synthetic case and red and white cardboard
Graphoplex 1600	10 M	Grap 1600 .03
slide rule generic plastic	295x44.5x3.8 Graphoplex	25 cm closed frame
Scales	Front 27 <u>cm</u> / L T>45°	$A = B K CI C = D S ST T<45^{\circ}$
5 extending scales red, A, B, CI, C and D CI completely red. cot, cos and cot letters and numbers red Under A, B, C and D blue	Text (fit) logo GRAPHOPLEX BREVETÉ S.G.D.G. (f MADE IN FRANCE red. No code number but a from code number the same as Grap 1600	brb) part Curved whole perspex cursor Grey synthetic case On the back side a 16 mm wide 0.2 mm high rim over the full length
Graphoplex 1600		Grap 1600 .04
slide rule generic plastic	292x46x3.5 Graphoplex	25 cm closed frame
Scales	Front 27 <u>cm</u> / L B ³	
 (f) Scale codes left and right. On the right side L, K, A, B, CI, C, D, S, S&T and T 5 extending scales B², b², a, b and B (f) All scales 2 horizontal lines except B², b², b and B which have 1 horizontal line. 	Text (frt) logo GRAPHOPLEX BREVETÉ S.G.D.G. M IN FRANCE (sll) vertical 1600. The two 00's are smaller tha Separate paper strip with formulas and data, c Réf. 1.0021	an 16 Dark red synthetic case

Form Application Mate	erial Sizes	Manufacturer	NCV-code Construction Own nr.	
Graphoplex 1600			Grap 1600 .05	
slide rule generic pla	stic 298x45.6x3	.6 Graphoplex	25 cm closed frame	
Scales	Front	27 <u>cm</u> / L T>45°	$A = B K C C = D S ST T < 45^{\circ}$	
5 extending scales red, A, B, CI, C and D CI completely red. cot, cos and cot letters a numbers red (f) In cos scale the number 20 red is missin	IN FRANCE real (sfr) vertical 16		Dark red synthetic case and beige and white	
Graphoplex 1612			Grap 1612	
	stic 152X32X4.	5 Graphoplex	12.5 cm closed frame	
Scales	Front	13 <u>cm</u> /	KA = B CI C = D L	
5 extending scales A, B, CI, C and D	Back		= S ST T =	
	Text (fit) logo GRAP MADE IN FRAt (sfl) vertical 16	HOPLEX, (frt) BREVETÉ S.G.D. ICE, (fib) Quot. +1 and (frb) Proc 12	G. I1. Curved whole perspex cursor (b) One open window right. Under slide 2 metal strip 3 mm wide. Apart from colour identical with Grap 61 .02	
Graphoplex 1612			Grap 1612 .01	
slide rule generic pla	stic 150x32.2x5	.5 Graphoplex	12.5 cm closed frame	
Scales	Front	13 <u>cm</u> /	$B^3 B^2 = b^2 a b = B L$	
(I) Scale codes left, no formulas right	Back		= S S&T T =	
(b) Scale codes left and right 5 extending scales $B^2 h^2$ a h and B	Text		Other	
5 extending scales, B ² , b ² , a, b and B (f) All scales 2 horizontal lines except B ² , b ² , b and B which have 1 horizontal line (sb) In the T and S scale No numbers for cot and cos are given. The ST scale is shown in degrees and per degree 60 minutes without ' instead of decimal parts of degrees. (sb) S&T 2 horizontal lines, S and T have 1 horizontal line				
Graphoplex Log Log 1	614		Grap 1614	
slide rule generic pla	stic 297X49X4	Graphoplex	25 cm closed frame	
Scales	Front	27 <u>cm</u> / LL2 LL3 I	$A = B K CI C = D S ST T<45^{\circ}$	
5 extending scales red, A, B, CI, C and D CI completely red. cos and cot letters and r red	IN FRANCE real (sfr) vertical 16 instruction guid	14. Text Log Log not on rule bui de n formulas and data on the back	t on Grey synthetic case in white and dark red cardboar	
Graphoplex Rietz S 1	621		Grap 1621	
slide rule generic pla	stic	Graphoplex	12.5 cm closed frame	
	Front		$A = B T < 45^{\circ} S C I C = D K L$	
Graphoplex Techni - n	nath 1694		Grap 1694	
slide rule generic pla	stic 296x49x4	A CONTRACT OF A	25 cm closed frame	
Scales	Front	27 <u>cm</u> / P K A	DF = CF L CI C = D S SRT T	
2 extending scales red, C and D Cl completely red, P, cos and cot letters an numbers red	(sfr) vertical Re but on instruct	n formulas and data on the back	Dark red synthetic case in white and dark red	
Graphoplex Electric L	og Log 6245		Grap 6245	
	stic	Graphoplex	50 cm closed frame	
	Front		B K CI C = D LL3 LL2 LL1	
	Back	=	ST S T<45° C =	
			0.0050	
Graphoplex Rietz 625			Grap 6250	
slide rule generic pla	stic 584x40x7	the second s	50 cm closed frame	
Scales	Front	56 <u>cm</u> /	$B^3 B^2 = b^2 a b = B L$	
(f) Scale codes left, K, A, B, Cl, C, D and L	A CARL AND A		= S S&T T =	
(b) Scale codes left and right 5 extending scales red, B ² , b ² , a, b and B (f) a scale 2 horizontal lines, rest 1 horizontal line (sb) S&T 2 horizontal lines. S and T have 1 horizontal line				



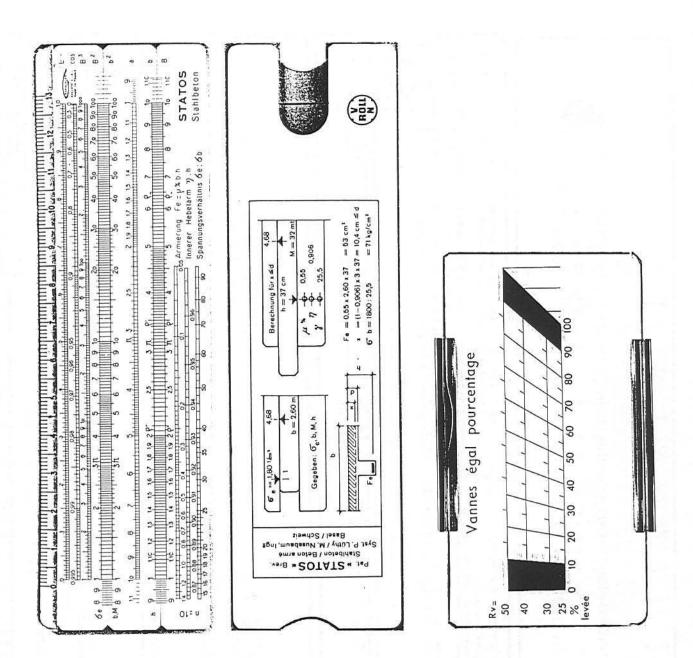
MODE D'EMPLOI de clamitre D force au débit O; l'index de la régelete dannie ac thouse J. CALCUL HYDRAULIQUE DES CONDUITES EN BÉTON Image: Construction of the constru	SERTE DE CHARGE EN MILLIÈMES $\frac{1}{0.02}$ $\frac{1}{0.05}$ $\frac{1}{0.11}$ $\frac{1}{0.02}$ $\frac{1}{0.11}$ $\frac{1}{0.12}$ $\frac{1}{0.15}$ $\frac{1}{0.15}$ $\frac{1}{0.15}$ $\frac{1}{0.11}$	= - 2.54 cm - 0.54 cm - 0.54 cm 5 = 6,45 cm2 Tonne longue = 907 k = = 6,45 cm2 Ivre/pouce ² lpsi]=0,07k/cm ² = 40,47 ores = = 23,24 l Ivre/pouce ² lpsi]=0,07k/cm ² = 40,47 ores Ivre/pouce ² lpsi]=0,07k/cm ² = = 10,47 ores Ivre/pouce ² lpsi]=0,07k/cm ² = 1,07k/cm ² = 10,47 ores Ivre/pouce ² lpsi]=0,07k/cm ² = 1,07k/cm ² = 1,07k/cm ² = = 10,047 lpsuce tatre = 1,07k/cm ² = 1,02k/cm ² = 1,02k/cm ² = = 3,79 l Horse power (HP)=1,014 CV = 4,55 l Horse Power (HP)=1,014 CV = 52,62 l/sec. Chevol Vopeur = 75 km/stc = 75 km/stc		$ \frac{d_{1}}{d_{2}} \frac{d_{2}}{d_{2}} \frac{d_{2}}{d_$
	J ≡ L Modèle déposé	Four E pouce correction Pouce correction Pred correction Acreation Pred cube USA Gallo Imp. Gallo M G (Imp. (Anillion Gc	N	Page 13

Grap Roplex



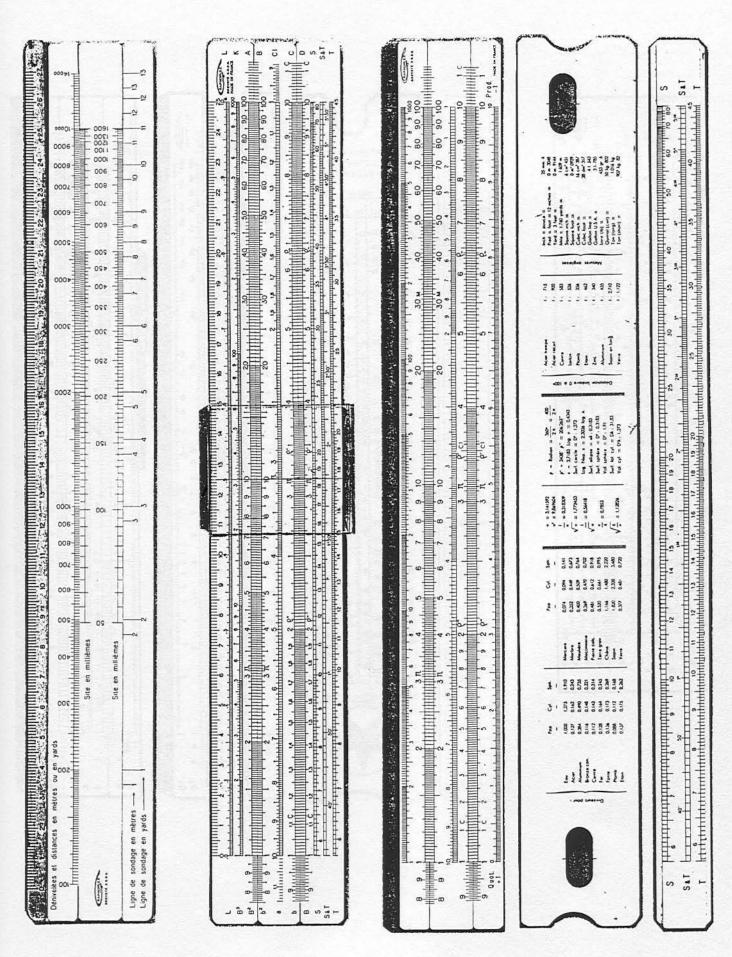
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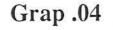
Grap Vanne (cursor)



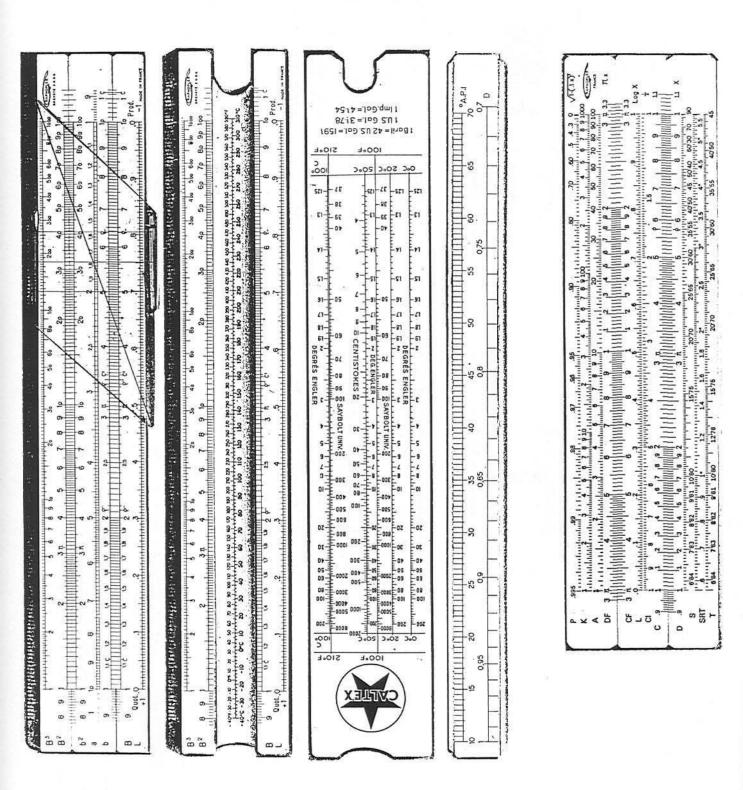
- CONTROLEXACT Department de REMONCONTROLE, 3.A. 119, Arteuro Foul Valland Converte Generaly (Saved) 141: ALE 20-95 1 <u>3a Vannes</u> – Lire le Cv et le \emptyset de la vanne en face du débit <u>3b Débitimètres</u> – Noter en face du débit la <u>valeur repêre tur l'échelle Cv</u> <u>valeur repêre marqué tur l'échelle des</u> débits Lire $\beta = \frac{6}{3}$ en face de D. 0.35 0,40 0,45 0,5 0,5 0,6 0,650,7 0,750,80 Venturi AFNOR 20 0.25 0.30 0.35 0.40 0.45 0.500.55 0.6 0.5 0.7 0.75 0.50 0.6 0.6 0.5 (ilange tap) Vanne AAP-GAZ-LIQ REVACO т, Т, 300 400 5 8 8 8 9 1000 CV Morque déposés 0 RETOURNER LA REGLE 0 siege simple 8 'n ė .0 100 5040 30 20 10 5 4 3 2 10 10 0.5 0.3 5.2 0.1 0.05 0.03 0.02 0.01 P. amont abs A D L 4 SURCHAUFFE VAPEUR ±C air 1 atm DENSITE 1 in. 0.30 ET DE DEBITMETRES in 300 0 200 00 0.25 à i >*~ 0.20 hudden einen der Einen eine Stehen der Stehe 11/2 11/2 0.15 0.20 11 11/4 APPLICATE IN Diamètres des vannes Prémoncontrôle $\beta = \frac{d}{D}$ D" conduite REGLE A CALCUL DE VANNES ŝ B=4/0 ÷ E 20 3/4 8 3/4 TEMPERATURE -50 15 200 400 GAZ *C 0 100 300 500 siège Les valeurs de β_{3} , ne tenant pas compte des corrections de viscosité sont approchées dans la plupart des cas. Le coefficient de débit (∞ =EC) est égal à : $\frac{Cv}{3D^2 \sqrt{10}} \# 0.105 \frac{Cv}{D^2} \left\{ D \text{ en poutes - Cv lu eu } \S 3b \right\}$ Double ALL R. P. LANDAR \$ 04 1 3/8 (3 24 abs N kg / cm² kg / cm² m eau Clapets simple guidage . code 31.32.33 0 . la Liquides-Afficher AP ou AH en face de la 1b Gaz & Vapeur – Afficher ΔP au ΔH en face de P amont absolve. la densité, de la température ou de la surchauffe. Prendre le repère R sur l'échelle A - Déplacer devant la densité. Prendre le nouveau repère R. Déplacer devant la température. Prendre le repère R sur l'échelle. A- Déplacer devant la surchauffe. Pour le calcul des vonnes de gaz de vapeur, si ∆P≥%P amon! absolue, afficher directement P lue sur l'échelle A) en face de ►≞◀ **CONTROLEXACT** ►24 VANNES ET DEBIMETRES ►24 densité. >%◄ ne l 10.0 20 m²h m²h 1 at m 1 at m I L h 1 2b Vapeur Za Goz 3 Vanne AUCH IN FRUCE NOTA VAP-GAZ-UQ Q

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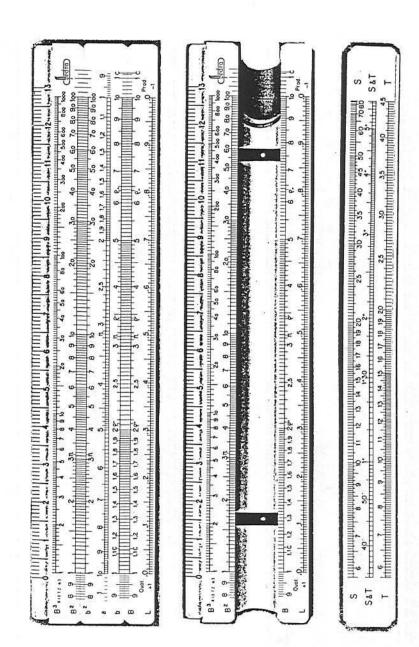
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Grap .07

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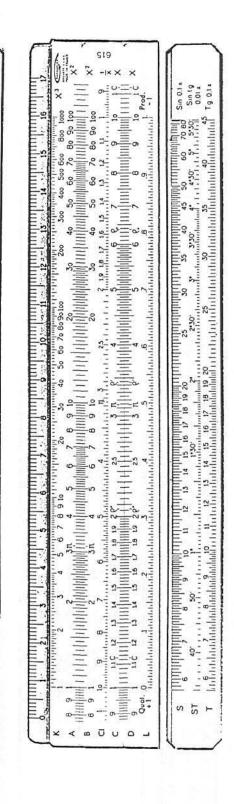
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Grap 620a

Grap 620d

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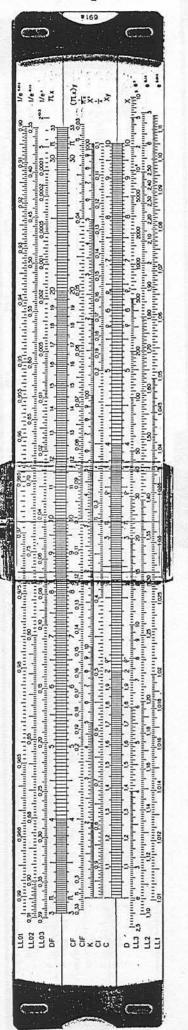
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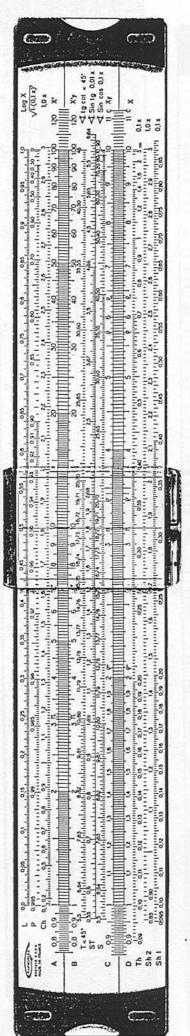
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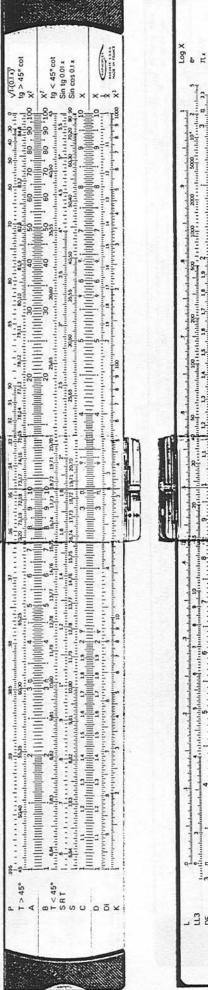
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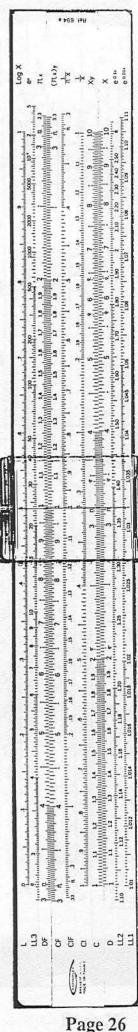
Grap 691a



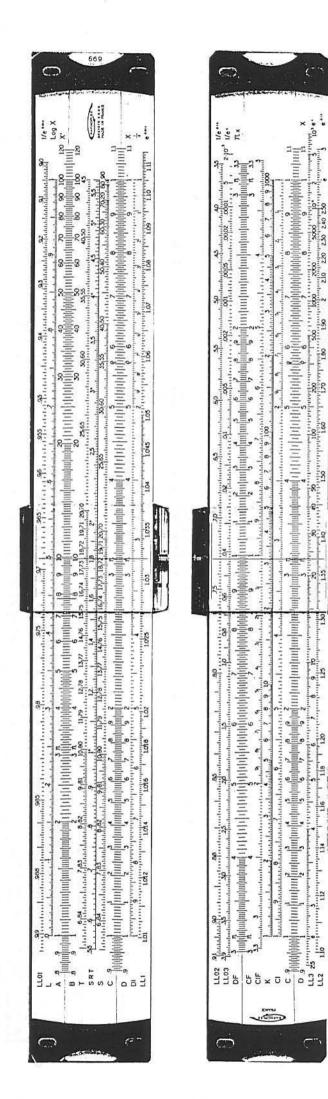


Grap 694a





Grap 697	Grap 698	
		Concept States Challen





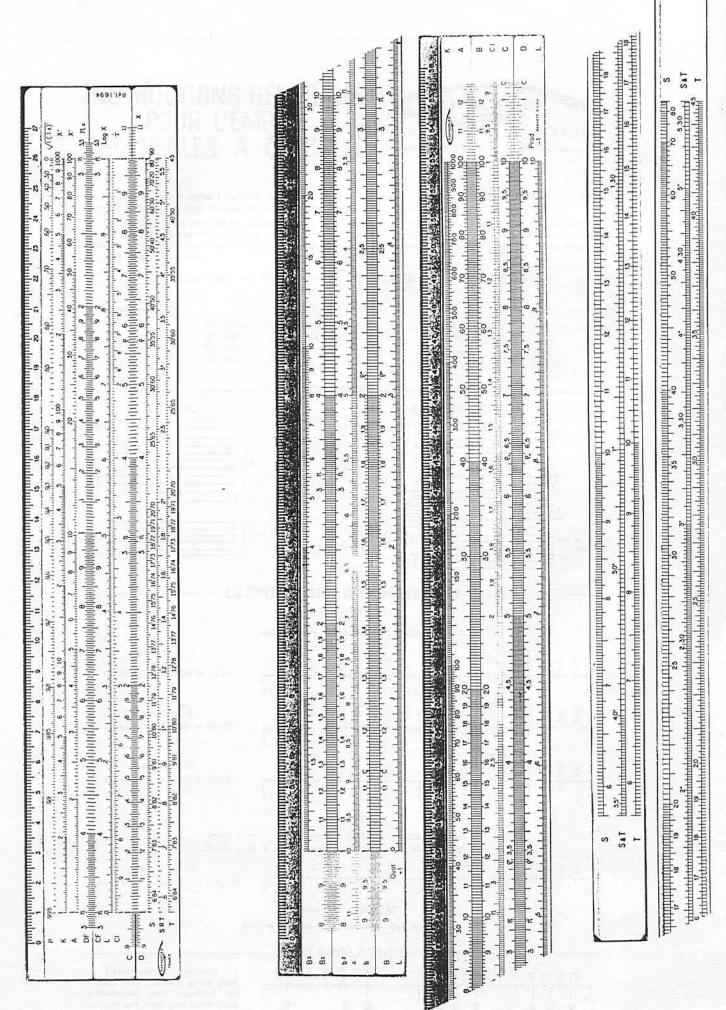
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r
TYPES DE CORRESPONDANCES
Échelle des nombres ; b B
$a = b \frac{m}{n} + \frac{n}{b} \rightarrow - \frac{m}{a} \begin{pmatrix} b \\ B \end{pmatrix}$
$a = bm$ $\frac{1}{b} \rightarrow -\frac{m}{a} \left(\frac{b}{b}\right)$
$-\frac{a-\frac{1}{n}}{n} - \frac{n}{k} - \frac{1}{a} \left(\frac{n}{8}\right)$
Échelle des carrés : h² Échelle des nombres : B
m ² .
$ \frac{1}{m} \frac{n^2}{m} / \frac{1}{a} \left(\frac{b}{B} \right) \frac{n}{m} \frac{a}{b} \left(\frac{B^2}{b^2} \right) $
Echelle des inverses : a Échelle des nombres : B
m v baa
$a = \frac{m}{bn} \frac{1}{1} \begin{pmatrix} a \\ B \end{pmatrix} \frac{n}{b} \rightarrow - \frac{a}{m} \begin{pmatrix} b \\ B \end{pmatrix}$
Échelle des cubes
Échelle des nombres : li
$\begin{array}{c} a & b & \frac{m}{m^3} \\ \vdots & \vdots & b & a = -\frac{a}{m} \left(\frac{B^3}{b} \right) \end{array}$
$m \rightarrow n \sqrt{\frac{a}{k}} n m \sqrt{b}$
Erballe das an lass d
Echelle des nombres : b Echelle Log-Log : LL
$m \rightarrow n^{\alpha}$ $\left(\frac{1}{2} \rightarrow \frac{\pi}{2} \left(\frac{b}{11}\right)\right)$
n ~ \ m n m \ LL /
CONSTANTES USUELLES
π = 3,141592 Log π = 0,497
$\frac{-\pi^2}{-1} = 0.318309 \qquad e = 2.718 \\ \text{Log } e = 0.4343 \\ \text{Log } e = -1.4343 \\ Log $
2,102 log z
4 1 0.00103
N + - 1,77245
FORMULES COURANTES .
Surf cercle $\rightarrow D^2$: 1,273 Surf. ellipse $\rightarrow ab$: 0,3163 Surf. sphere $\rightarrow D^2$: 0,3163
$\begin{array}{llllllllllllllllllllllllllllllllllll$
Vol. cyl. + D ² h ± 1,273
DIVISEURS MOYENS
pout
Ppp Cyl. Sphere Acier : 0.127 0.162 0.243
Etain : 0.137 0.175 0.262 Mercure : 0.074 0.094 0.141 Verre : 0.177 0.481 0.720 Fonte : 0.136 0.173 0.269
MESURES ANGLO-SAXONNES
Inch = pouce = 25.4 mm Foot - pied = 12 inches 12 inches = 0.3048 m
Fool pied = 12 inches 12 inches = 0.3048 m Yard = 3 feet 0.9144 m Mile 1.760 yards 1.6093 km Naut Mile 2026.7 wards
Naut. Mile - 2026.7 yards 2026.7 yards - 1,8532 km Square inch - 6,4516 cm ²
Inch = pouce = 25.4 mm Foot = pied = 12 inches 12 inches = 0.3048 m Yard = 3 iest = 0.9148 m Niet = 1760 yards = 1.6093 m Niet = 1760 yards = 1.6093 m Niet = 1760 yards = 2026.7 yards 2026.7 yards = 1.6393 km Sausre inch = 0.4516 km Sausre inch = 0.4516 km Sausre ioot = 9.2093 dm² Cubic ioot = 28.3167 dm² Geillon imp. = 4.5431. Geillon imp. = 4.543 Geillon U.S.A. = 3.785 l. Once = 28.3495 e
Cubic foot = 28,3167 dm ³ Gellon imp. = 4,543 l. Gellon U. S. A. = 3,785 l.
Gallon U. S. A. = 3,785 1.
Once = 28,3495 g
$\begin{array}{llllllllllllllllllllllllllllllllllll$
$\begin{array}{llllllllllllllllllllllllllllllllllll$
Quintal = cwt = 50,802 kg Quintal sh = 45,3592 kg Tan lang = 1016,06 kg

Grap 699

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12		
		$ \begin{array}{c c c c c c c c c c c c c c c c c c c $



Grap 1694

Typical Instruction Leaflet





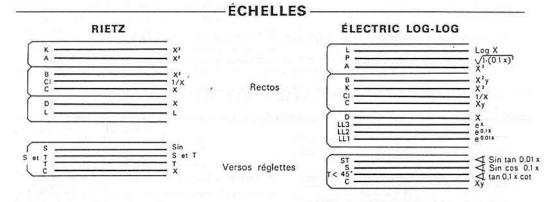
MATIÈRE. – Les règles à calculer GRAPHOPLEX sont fabriquées avec une résine synthétique qui ne subit aucune déformation sous l'action de l'eau ou du degré d'hygrométrie atmosphérique.

GRAVURE. – Le procédé de gravure employé pour obtenir les traits des graduations ainsi que les chiffres est un procédé breveté. Cette gravure est inaltérable. Elle résiste à l'abrasion. Examinés avec un fort grossissement, les contours des traits sont parfaitement nets et purs. La lecture des graduations se fait avec précision et sans effort de la vue.

SYSTÈME RIETZ -

SYSTÈME ÉLECTRIC LOG-LOG

Longueurs						
50	cm	N°	6250	- Bureau d'études -	Nº	6245
25	cm	N°	620	- Bureau d'études -	Nº.	640
15	cm	N°	615	– Poche –	Nº.	643
12.5	cm	Nº	612	– Poche –	19-	043



LECTURE DES GRADUATIONS

Règle de 25 cm

Échelle des nombres (C-D) (CI+)

Entre 1 et 2		10	.02	60.	5	50.	90.	10.	80.1	60		11	.12	F	ig 1	2	£.	36	16	86	66	
1 division = 1/100 = 0.01 (fig. 1)	ſ	-	-		-	Ť	-	-		-	1,1	-				'	T	-	-	-	-	72
Entre 2 et 4 1 division = 2/100 = 0,02 (<i>fig. 2</i>)		2.02	2,04	2,06	2,08	2,10	2,12	2,14	2,16	2,18	2,20	2,22	2.24		Fig 2		3.90	3.92	3.94	3.96	3,98	
	۲ 2	4	1		e.	1	1	T.		k	L	ľ					1		3		3	4
Entre 4 et 10		4.05	4,10	4.15	4.20	4.25	4'30	\$£.+	4.40			6.05	6.10	6.15	6,20	g. 3	51.6	9.80	9.85	6.90	56.6	
1 division = $5/100 = 0.05$ (fig. 3)	Ţ				1	1	T		1		Ţ		T	1	Τ-			I	1		1950	7

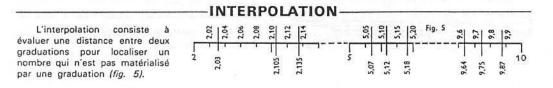
Échelle des carrés (A-B)

Entre 1 et 2 - 1 division = 2/100 = 0.02 (voir fig. 2) Entre 2 et 5 - 1 division = 5/100 = 0.05 (voir fig. 3)

Entre 5 et 10 동중중중중중 ^{Fig. 4} 중중중중 응 응 응 응 8 8 1 division = 1/10 = 0.1 (*lig. 4*)

Échelle des cubes (K)

Même lecture que l'échelle des carrés



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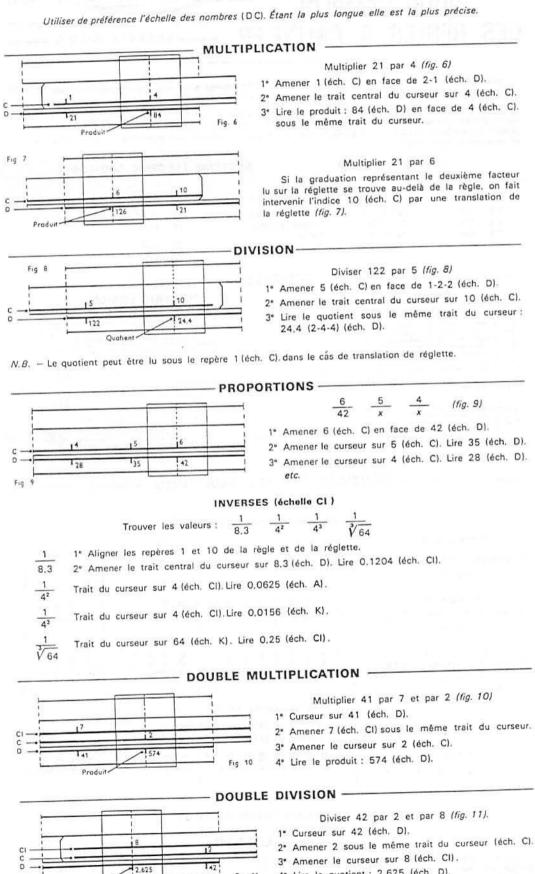


Fig. 11

OPÉRATIONS

Page 32

Quotient

4º Lire le quotient : 2,625 (éch. D).

ÉCHELLES DES CARRÉS (A-B)

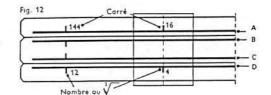
Les nombres représentés sur ces échelles sont les carrés des nombres correspondants à ceux des échelles des nombres (éch. D-C).

Puissance :

Exemple (fig. 12); Élever 4 au carré

- 1° Curseur sur 4 (éch. D).
- 2° Lire le carré : 16 sous le même trait du curseur sur l'échelle A.
 - Élever 12 au carré (éch. C·B).
- 1° Curseur sur 12 (éch. C).

2º Lire le carré : 144 sur l'échelle A.

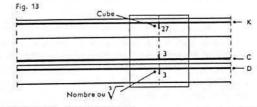


- ÉCHELLE DES CUBES (K).

Les nombres représentés sur cette échelle représentent les cubes des nombres correspondants sur l'échelle des nombres D.

Exemple : Élever 3 au cube (fig. 13)

Curseur sur 3 (éch. C ou éch. D réglette alignée)
 Lire le cube : 27 sur K sous le même trait du curseur.



-RACINES CARRÉES - RACINES CUBIQUES

Pour extraire une racine, faire l'opération inverse. Lire le nombre sur l'échelle A ou B (racine carrée) ou K (racine cubique), et la racine sur l'échelle D ou C (racine carrée) ou D (racine cubique).

- ÉCHELLE DES LOGARITHMES (L) –

Cette échelle, divisée en parties égales, permet de déterminer les mantisses des logarithmes des nombres correspondants sur l'échelle D.

Fig. 14

Exemple : log 760 (fig. 14)

1º Curseur sur 760 (éch. D).

2° Lire la mantisse sous le même trait du curseur sur l'échelle L : 0,880.

3°	Ajouter	la	caractéristique	;	2.	
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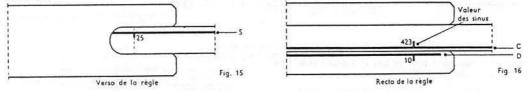
Résultat : 2,880.

- ÉCHELLES TRIGONOMÉTRIQUES (S - S et T - T) -

Ces échelles, placées au verso de la réglette, permettent de déterminer :

- 1° Échelle S : La valeur des sinus des angles de 5,733° à 90°
- 2° Échelle T : La valeur des tangentes des angles de 5,70° à 45°
- 3° Échelles S et T : La valeur des petits angles de 0,573° à 5,70°

Pour les angles au-dessous de 5.70°, on confond les valeurs du sinus et de la tangente pour les calculs courants.



Exemple : Valeur du sinus 25° (fig. 15 et 16)

1° Retourner la règle.

2° Tirer la réglette vers la droite pour amener 25° (éch. S) sous le trait rouge du voyant.

3° Retourner la règle. Lire sur le recto de la réglette : 0.423 (éch. C) au-dessus du repère 10 (éch. D).

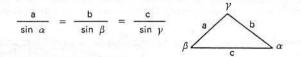
Pour déterminer la valeur des tangentes ou des petits angles, procéder de la même manière en repérant : les tangentes sur l'échelle T, et les petits angles sur l'échelle S et T.

Échelle en grades.- L'exemple ci-dessus (fig. 15) s'entend pour des échelles divisées en degrés. Si les échelles sont en grades, la méthode opératoire reste la même, mais on lira pour 25 grades une valeur de : 0,383 sur l'échelle C au-dessus de 10 (éch. D).

N.B. - Pour résoudre des expressions comme : $\frac{\sin \beta}{\sin \varphi} \cdot \frac{\sin \varphi \sin \beta}{tg x}$ il est préférable de retourner la réglette

et de mettre les échelles trigonométriques en concordance avec les échelles du recto de la règle. On procède ensuite comme pour effectuer une multiplication ou une division par l'intermédiaire du curseur.

RÉSOLUTION DES TRIANGLES



Retirer complètement la réglette. La retourner dans le sens de la largeur et la remettre en place.

Exemple : a = 2, b = 3, inconnue : c. $\mathcal{V} = 90^{\circ}$

- 1° Amener le trait final de l'échelle T au-dessus de 3 (éch. D).
- 2° Amener le curseur sur 2 (éch. D).
- 3° Lire sous le trait du curseur sur l'échelle T : 33,70°
- 4° Sans déplacer le curseur, faire coulisser la réglette pour amener 33,70° lu sur l'échelle S sous le trait du curseur.
- 5° Lire la valeur de c = 3,61 sur l'échelle D sous le repère 45° de l'échelle T.

Exemple :
$$a = 20$$
, $b = 3$, inconnue : $c \mathcal{V} = 90^{\circ}$

1º Amener le trait initial de l'échelle T au-dessus de 2 (20) (éch. D).

(Le calcul est inversé par rapport au précédent car 20 > 3.)

- 2° Amener le curseur sur 3 (éch. D).
- 3° Lire au-dessus de 3 sur l'échelle T : 81,47° en se servant des chiffres complémentaires en caractères penchés qui progressent de droite à gauche.
- 4° Sans déplacer le curseur, faire coulisser la réglette pour amener 81,47° lu sur l'échelle S sous le même trait du curseur.
- 5° Lire la valeur de c = 20,2 sous le trait initial de l'échelle T sur l'échelle D.

Exemple : a = 30,
$$\alpha$$
 = 50°, β = 60°, inconnues : b, c et γ

 1° $\mathcal{V} = 180^{\circ} - (\alpha = 50^{\circ} + \beta = 60^{\circ}) = 70^{\circ}.$

- 2º Amener le curseur sur 30 (3) (éch. D).
- 3° Amener 50° (éch. S) sous le même trait du curseur.
- 4° Amener le curseur sur 70° (éch. S) et lire la valeur de c = 36,80 (éch. D).
- 5° Amener le curseur sur 60° (éch. S) et lire la valeur de b = 33,9 (éch. D).

Exemple :
$$\alpha = 4^\circ$$
, $\beta = 2,50^\circ$, $c = 140$, inconnues : a, b et β

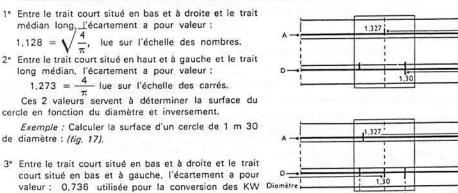
 1° $l^{\circ} = 180^{\circ} - (4^{\circ} + 2,50^{\circ}) = 173,50^{\circ}.$

2° Amener le curseur sur 140 (éch. D).

- 3° Amener 6,50° (éch. S) sous le même trait du curseur.
- 4° Amener le curseur 2,50° (éch. S et T).
- 5° Lire sous le même trait du curseur la valeur de b = 54 (éch. D).
- 6° Amener le curseur sur 4° (éch. S et T).
- 7º Lire sous le même trait du curseur la valeur de a = 86,5 (éch. D).

- CURSEURS A QUATRE TRAITS

Les écartements des traits du curseur ont les valeurs suivantes :





Surface

Fig 17

Diamètre

Surface

Fig. 18

0.736 KW = 1 CV lue sur l'échelle des nombres. (fig. 18)

en CV et inversement.

RÈGLE ÉLECTRIC LOG-LOG -

ÉCHELLE LOG-LOG : LL1 (e °°1*) - LL2 (e °.1*) - LL3 (e ')

Cette échelle ne figure que sur les règles système Électric Log-Log. Divisée en trois parties : LL1 de 1.01 à 1.115 - LL2 de 1.10 à 3.10 - LL3 de 2.44 à 10⁵ .

Les valeurs inscrites sur cette échelle ne représentent pas des séries de chiffres, comme les échelles ordinaires, mais les valeurs réelles avec les décimales. On lit par exemple : 1.0124 - 1.306 - 15.6.

1,7

1.0546

Les valeurs tracées sur une échelle représentent les $\sqrt{10}$ des valeurs correspondantes tracées im-

médiatement au-dessus.

LL2

LLI

On lit : 1,01387 sur LL1 = $\sqrt[10]{1,1487}$ sur LL2 d'où 1.1487¹⁰ = 4 sur LL3.

PUISSANCES ET RACINES D'UN NOMBRE

С LL3 LL2 1.246 LLI 1,0222 10 C LL3 201

1 4 5

- Calculer: 3² 3^{0,2} 3^{0,02}.
- 1° Curseur sur 3 (éch. LL3). 2° Amener 1 (éch. C) sous le trait du curseur.
- 3º Amener le curseur sur 2 (éch. C).
- 4° Lire sous le trait du curseur $3^2 = 9$ (sur LL3) $3^{0.2} =$ 1.246 sur LL2. $3^{0.02} = 1.0222 \text{ sur LL1}$. V1.45 1.45
- Calculer $\sqrt[7]{1.45}$ $\sqrt[6]{1.45}$ $\sqrt[7]{1.45}$ 1° Curseur sur 1.45 (éch. LL2). 2° Amener 7 (éch. C) sous le trait du curseur.
- Amener le curseur sur 10 (éch. C). 30
- 4° Lire sous le trait du curseur.
- 70 0.7/2 45

$$\sqrt{1.45} = 1.0546 \text{ sur LL1} - \sqrt{1.45} = 1.7 \text{ sur LL2} - \frac{0.07}{1.45} = 201 \text{ sur LL3}.$$

PUISSANCES ET RACINES DE e (2,718)

Le nombre e étant aligné avec l'origine 1 de l'échelle des nombres cette disposition permet d'obtenir e^x et $\sqrt[x]{e}$ sans déplacement de réglette. -0.3 -0.03

	Ŷ	Calculer: e ³ - e ³ - e ³
		1° Curseur sur 3 (éch. D).
C	13	2° Lire sous le trait du curseur : $e^3 = 20.1$ sur LL3 - $e^{0.3} = 1.35$ sur LL2 - $e^{0.03} =$
LL3	20,1	1.0304 sur LL1.
LL2	1,35	Calculer: $\sqrt[0.2]{e}$ $\sqrt[2]{e}$ $\sqrt[2]{e}$
LL1	1,0305	1° Aligner les échelles C et D.
ci	12	2° Curseur sur 2 (éch. Cl). 3° Lire sous le trait du curseur.
LL3	149	$\sqrt[0.2]{e} = 149$ sur LL3 - $\sqrt[2]{e} = 1.65$ sur LL2
LL2	1.65	$\frac{20}{e} = 1.0514$ sur LL1.
	1,0514	$V^{\circ} = m^{\circ} m^$

- NOMBRES INFÉRIEURS A 1 -

1

Ces nombres ne figurent pas sur l'échelle. On prend leur inverse et l'inverse du résultat.

12	The second second second
2,78	
1.1075	1,666 =

1°
$$0.6^{\circ} = 1.666$$
.
2° Curseur sur 1.666 (éch. LL2).
3° Amener 10 (éch. C) sous le trait du curseur.
4° Amener le curseur sur 2 (éch. C).
5° Lire sous le trait curseur : 1.666² = 2.78 -
1.666^{0.2} = 1.1075 - 1.666^{0.02} = 1.01028
'où 0.6² = $\frac{1}{2.78} = 0.36 - 0.6^{0.2} = \frac{1}{1.1075} = 0.9028 - 0.6^{0.02} = \frac{1}{1.01028} = 0.9898.$

Calculer : $0.6^2 - 0.6^{0.2} - 0.6^{0.02}$.

N.B. - La règle Néperlog N° 690 permet les calculs directs $e^{x} \cdot e^{x} \cdot \pi x \cdot \frac{1}{\pi x}$, etc. La règle Néperlog-Hyperbolic Nº 691 permet en plus les calculs hyperboliques.

d

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LOGARITHMES NÉPÉRIENS - Soit l'équation : N = e*, x est le log nép. de N où X = Log, N. La détermination du log. nép. se fait comme suit : Mantisse - Lire le nombre sur l'échelle LL, lire la mantisse sur l'échelle D.

Caractéristiques. Si le nombre est lu sur LL1 faire précéder la mantisse de 0.0... Si le nombre est lu sur LL2 faire précéder la mantisse de 0....

Si le nombre est lu sur LL3, lecture directe. Dans ce dernier cas, les chiffres de l'échelle des nombres (D) représentent la caractéristique de 1 à 10 et les subdivisions la partie décimale.

REGLE

Puissances : Pour un exposant compris entre 1 et 10 si on se sert du trait initial 1 de l'échelle C. la puissance se lit sur la même échelle log-log que le nombre. Si on utilise le trait final 10 de l'échelle C la puissance se lit sur l'échelle log-log immédiatement au-dessus de celle du nombre.

Racines : Pour un indice compris entre 1 et 10, si on utilise le trait initial 1 de l'échelle C la racine se lit sur la même échelle Log-Log que le nombre.,

Si on utilise le trait final 10 de l'échelle C, la racine se lit sur l'échelle Log-Log immédiatement inférieure à celle du nombre.

Échelle cosinus P : $V_{1-(0,1x)^2}$.Cette échelle permet de déterminer la valeur du cosinus d'un angle. Pour les sinus supérieurs à 50° on a intérêt à retourner la réglette et à prendre le cosinus dont on lira la valeur avec plus de précision sur l'échelle cosinus : Ex. : sin de 80°. Lire cos. 10° = 0.9848 sur l'échelle P.

- DIVISEURS -

Diviseur ρ' : - Sa valeur est $\frac{360 \times 60}{2 \pi} = 3.437.746$

Il sert à déterminer la valeur des angles exprimés en minutes.

Exemple : Angle, 28'; rayon 32 m.

Amener le diviseur p' (éch. C) en face de la graduation 28 (éch. D). Lire le résultat sur l'échelle D en face de la graduation 32 (éch. C), soit 0,26.

Diviseur ρ'' .- Sa valeur est : $\rho' \times 60 = 3.437,746 \times 60 = 206.265$

Il sert à déterminer la valeur des angles exprimés en secondes. On procédera comme ci-dessus.

Diviseur p., - Sa valeur est 636.619"

Il sert à déterminer la valeur des angles exprimés en secondes centésimales.

- RECOMMANDATIONS -

Votre règle à calculs est un bel instrument. Vous ne pourrez plus vous en passer,

Prenez-en soin. Après usage remettez-la dans son étui.

Évitez de la laisser séjourner longtemps au soleil d'été.

Évitez les contacts avec des engins ayant une température supérieure à 55° C.

Si votre règle est maculée, nettoyez-la avec un chiffon doux (coton) imbibé d'eau et enduit de savon de Marseille. Ne jamais employer de solvants : acétone, trichloréthylène, etc.

ATTENTION réglage du coulissement de la réglette

Cette règle bénéficie d'une amélioration technique importante.

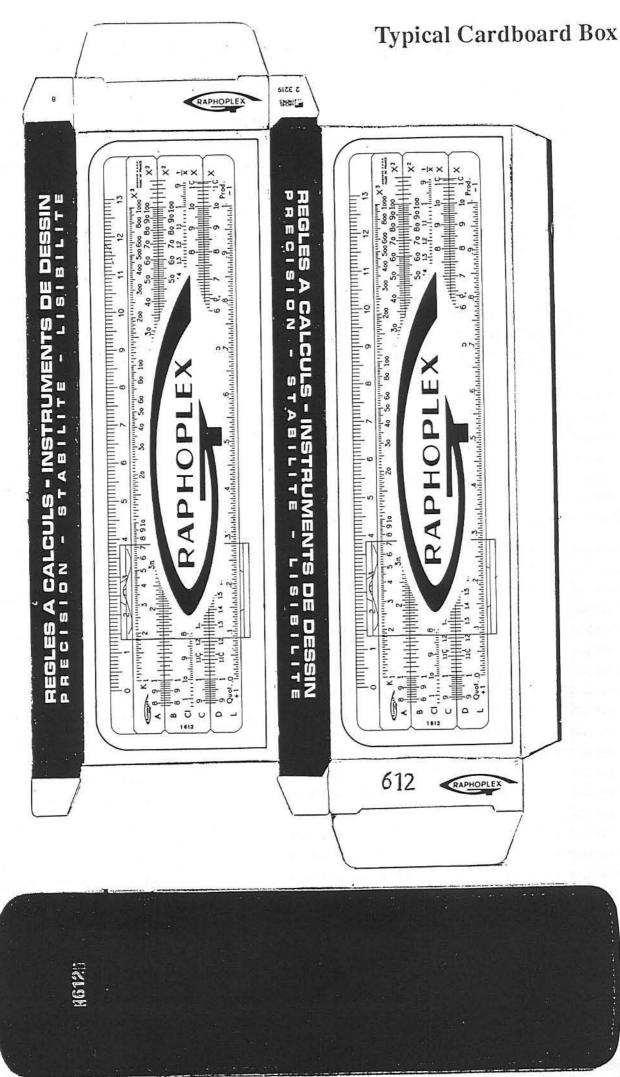
Le fond de la règle réalisé en une matière plastique spécialement formée, assure un coulissement souple et régulier de la réglette sur l'ensemble de la règle. Il est possible de durcir le coulissement ou de le libérer, et ce par simple torsion du fond dans le sens de la longueur; tendant soit à rapprocher les parties fixes, soit à les éloigner selon l'effet désiré.

Courbure du fond dans ce sens Réglette plus serrée

Courbure du fond dans ce sens Réglette plus libre

Il n'est pas possible, dans une instruction abrégée, de développer la théorie complète des possibilités de la règle à calculs.

Nous conseillons à tous les utilisateurs qui veulent tirer de cet instrument tous les services qu'il peut leur rendre, de se procurer l'ouvrage intitulé « LA RÈGLE A CALCULS » par M. Robichon, édité par la Librairie Foucher, 128, rue de Rivoli, Paris. En vente chez votre fournisseur.



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RRR (very rare of	nlv o	ne o	r two	kno	wni		year to find one on Heavy used may be a fra	ctio	n of	d da the	mag valu	ed (C e in t	he list.
years before		omes	s up	for s	ale)			ld,	1\$=	2.10	Gld,	1 E	= 3.40 Gld
(control fox for the fait	o, m		alue		63/4 2/4		come up for sale)		_		0		Contraction (1992)
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Graphoplex Béton	9	0 8			RR	Grap Béton	Graphoplex Electric Log Log 640	GId 5 (_		£	C	NCV Cod
Graphoplex Gaz de France	9	0 8	0 4:	3 26	RR	Grap Gaz	Graphoplex Electric Log Log 640	50	4 5				Grap 640 .0
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Vannes					Peser	COLLEGE CONTRACTOR	Graphoplex 647	10000	0.5.3	1	0.020		Grap 645
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Graphoplex	30	27	14	9	С	Grap .03		70		33		RR	Grap 670
Graphoplex (615) Caltex	50	45	24	15	R	Grap .04	Graphoplex Neperlog 690	60	54	29	18	C	Grap 690
Graphoplex	30	27	14	9	С	Grap .05	Graphoplex Neperlog 690	60	54	29	18	С	Grap 690 .01
Graphoplex	40	36	19	12	С	Grap .06	Graphoplex Neperlog 690 a	60	54	29	18	C	Grap 690 a
Graphoplex	6 0	54	29	18	R	Grap .07	Graphoplex Neperlog Hyperbolic 691 a	60	54	29	18	С	Grap 691 a
Graphoplex Fedra Rietz 63	40	36	19	12	R	Grap 63	Graphoplex 692 a	40	36	19	12	c	Grap 692 a
Graphoplex Lignomètre - Typomètre 604	50	45	24	15	R	Grap 604	Graphoplex 692 b	40	36	19	1.00	c	Grap 692 b
Graphoplex Rietz 610							Graphoplex Tecnilog 694 a	50	45	24	15	c	Grap 694 a
Graphoplex 612	30		14	9		Grap 610	Graphoplex 695	70	63	33	21	R	Grap 695
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Graphoplex 612	15	13	7	4	C	Grap 612 .05	Graphoplex 1600	25	22	12	7	. T. D	Grap 1600
Graphoplex Log Log Scola 614	60	54	29	18	RR	Grap 614	Graphoplex 1600	25	22	12	7	С	Grap 1600 .01
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iraphoplex 615	25	22	12	7	C	Grap 615 .01	Graphoplex 1600	25	22	12	7	C	Grap 1600 .03
raphoplex 615	25	22	12	7	C	Grap 615 .02	Graphoplex 1600	25	22	12	7	С	Grap 1600 .04
raphoplex 615 Texaco	50	45	24	15	R	Grap 615 Texaco	Graphoplex 1600	25	22	12	7	С	Grap 1600 .05
raphoplex Rietz 620	25	22	12	7	C	Grap 620	Graphoplex 1612	25	22	12	7	C	Grap 1612
raphoplex Rietz 620	25	22	12	7		Grap 620 .01	Graphoplex 1612	25	22	12	7	C	Grap 1612 .01
raphoplex Rietz 620 a	25	22	12	7		arap 620 a	Graphoplex Log Log 1614	30	27	14	9	C	Grap 1614
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