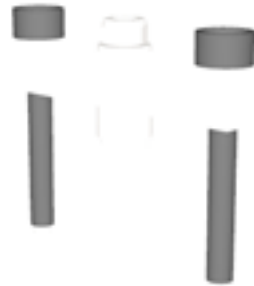
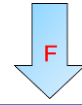


GC118_F

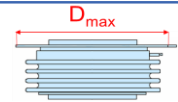
BAR CLAMP FOR HOCKEY PUK DEVICES



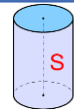
$F = 22 \text{ kN} \div 32 \text{ kN}$



$D_{max} = 105 \text{ mm}$



$S = 0 \div 133 \text{ mm}$



$T_{op} = -30 \div 230 \text{ }^\circ\text{C}$



Scan this QR code to download this datasheet

To display 3D images correctly, please use last version of Acrobat PDF Reader <https://get.adobe.com/it/reader/>
 (Once the application has started, click the Options button and then select: "Trust this document one time only", then click on the 3D image and wait until the upload is complete)

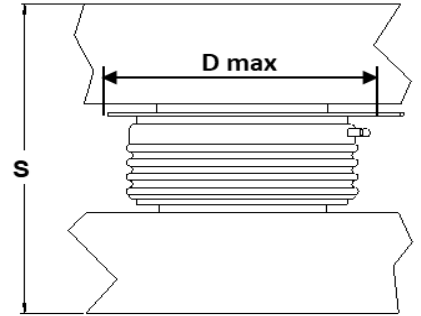
Characteristic	Unit	Types	Testing conditions	Values		
				Min	Typ	Max
F	Clamping Force	kN		22		32
ΔF	Clamping Force tolerance	%				$\pm 10\%$
V_{INS}	Insulation Voltage	V	50 Hz, RMS, 60 s		3000	
D_s	Surface creepage distance	mm			28	
D_a	Air strike distance	mm			20,3	
m	Mass	g	GC118S...F	930		1030
			GC118B...F	1750		1870
	Insulating Material		Polyphenylene Oxide			PPO
			Polyphenylene Sulfide			PPS
	UL Files		PPO			E121562
			PPS			E95746
T_{op}	Operating temperature range	$^\circ\text{C}$	PPO	-30		110
			PPS	-30		230
CTI	Comparative Tracking Index	V	PPO	According to UL746	225,0	
			PPS	According to IEC112/3rd	250,0	
	Flammability	mm	PPO	UL94 V-1 Flame class rating	1,5	
				UL94 V-0 Flame class rating	6,0	
			PPS	UL94 V-0 Flame class rating	1,6	

ORDERING INFORMATION TABLE

Use this part numbering system to order

GC118	B	N	B	A	32	F	S	H	X	L	0
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	

(1) Construction type:	B = with reaction bar S = without reaction bar
(2) Insulator position:	N = on load bar R = on reaction bar
(3) Insulator code:	_ = no insulating cup other : see table below
(4) Bolt code:	_ = no bolt 1 = only D8 special washers, no bolts other : see table below
(5) Clamping force (in kN):	22 kN ÷ 32 kN, with step of 1 kN
(6) Special accessories	blank = no accessories S = extra bar spacer (*)
(7) Insulating cup material	0 = standart PPO insulating cup H high temperature PPS insulating cup
(8) Bolt steel type	0 = standard 8.8 steel bolts X = A2 stainless steel bolts (**)
(9)-(10) Bars thickness	00 = standart bars thickness (25 mm) L0 = low preofile bars thickness (20 mm) 01 = load bar (25 mm)- reaction bar (20 mm) 0F = load bar (25 mm)- reaction bar (20 mm) with 5.5 mm aux holes LF = load bar (20 mm)- reaction bar (20 mm) with 5.5 mm aux holes



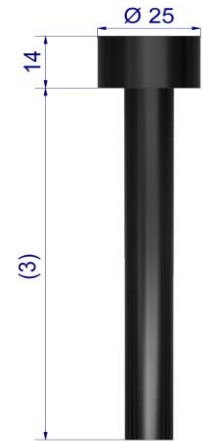
S : Total thickness of the assembly to be clamped
D max : Max inner diameter allowable

(*) Needed to reduce S_{Min} if a lower allowed clearance is required

(**) Suggested for high current applications, magnetic sensitive applications or any application working in very high E.M. fields

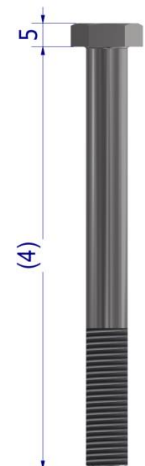
Type GC118BN...F: suggested insulator/bolt types

Allowed clearance S		Insulator choice		Bolt choice		Max height
S_{Min} [mm]	S_{Max} [mm]	(3)	Ins. Length [mm]	(4)	Bolt Length [mm]	T [mm]
0	8	Z	34	U	70	92
0	13	Z	34	V	75	97
4	18	A	50	W	80	102
14	28	A	50	Y	90	112
24	38	B	70	Z	100	122
34	48	B	70	A	110	132
44	58	B	70	B	120	142
48	68	C	95	C	130	158
58	78	C	95	D	140	168
68	88	C	95	E	150	178
78	98	D	120	F	160	188
88	108	D	120	G	170	198



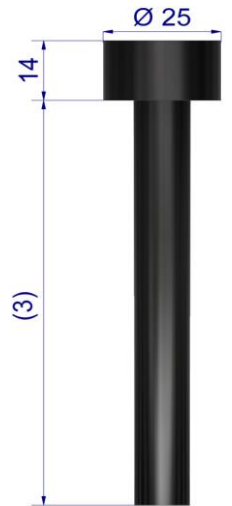
Type GC118BR...F: suggested insulator/bolt types

Allowed clearance S		Insulator choice		Bolt choice		Max height
S_{Min} [mm]	S_{Max} [mm]	(3)	Ins. Length [mm]	(4)	Bolt Length [mm]	T [mm]
0	8	Z	34	U	70	109
0	13	Z	34	V	75	114
4	18	A	50	W	80	119
14	28	A	50	Y	90	129
24	38	A	50	Z	100	139
34	48	B	70	A	110	149
44	58	B	70	B	120	159
48	68	C	95	C	130	169
58	78	C	95	D	140	179
68	88	C	95	E	150	189
78	98	D	120	F	160	199
88	108	D	120	G	170	209



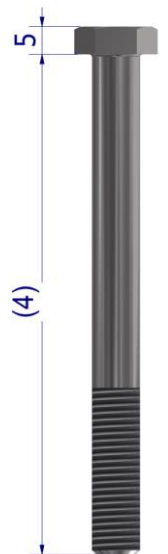
Type GC118SN...F: suggested insulator/bolt types

Allowed clearance S		Insulator choice		Bolt choice		Max height
S _{Min} [mm]	S _{Max} [mm]	(3)	Ins. Length [mm]	(4)	Bolt Length [mm]	T [mm]
0	8	Z	34	U	70	78
0	13	Z	34	V	75	83
4	18	A	50	W	80	88
14	28	A	50	Y	90	98
24	38	B	70	Z	100	108
34	48	B	70	A	110	118
44	58	B	70	B	120	128
48	68	C	95	C	130	138
58	78	C	95	D	140	148
68	88	C	95	E	150	158
78	98	D	120	F	160	168
88	108	D	120	G	170	178

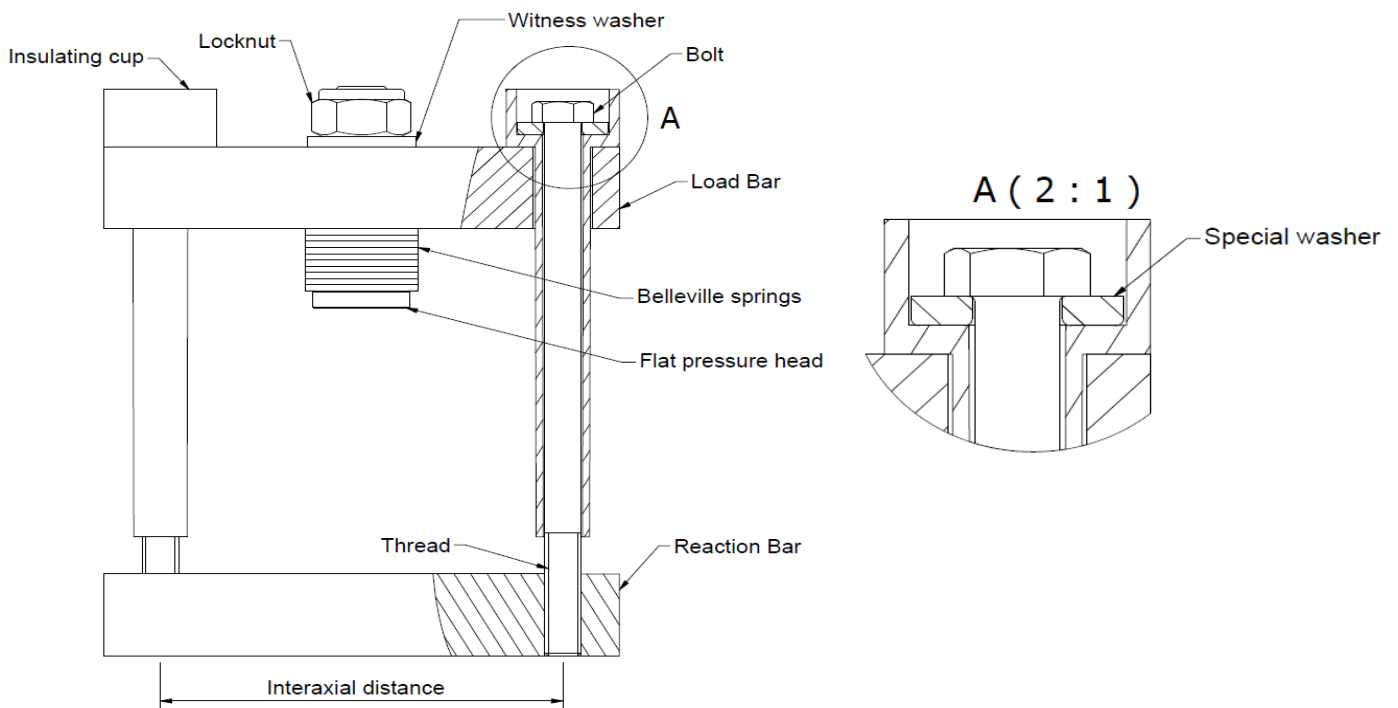


Type GC118SR...F: suggested insulator/bolt types

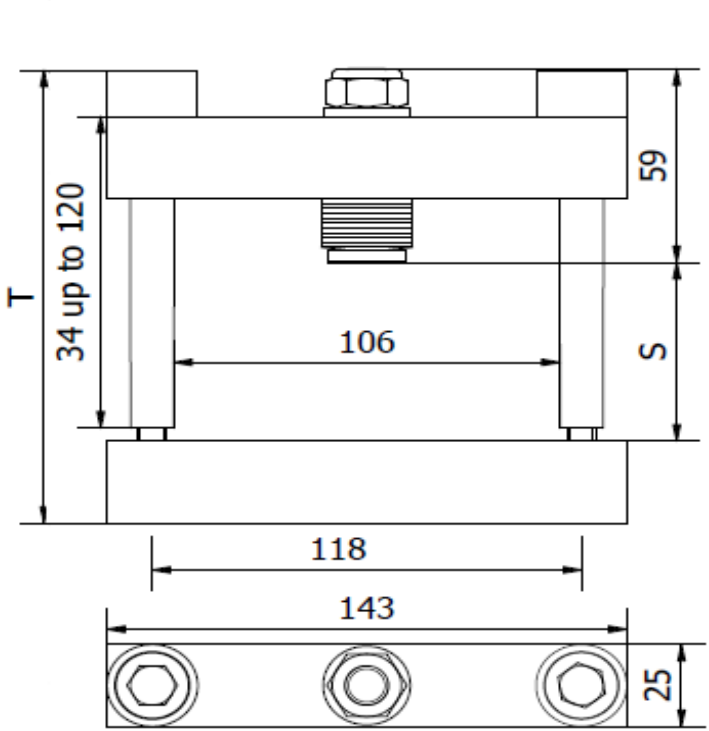
Allowed clearance S		Insulator choice		Bolt choice		Max height
S _{Min} [mm]	S _{Max} [mm]	(3)	Ins. Length [mm]	(4)	Bolt Length [mm]	T [mm]
19	33	Z	34	U	70	109
24	38	Z	34	V	75	114
29	43	A	50	W	80	119
39	53	A	50	Y	90	129
49	63	B	70	Z	100	139
59	73	B	70	A	110	149
69	83	B	70	B	120	159
73	93	C	95	C	130	169
83	103	C	95	D	140	179
93	113	C	95	E	150	189
103	123	D	120	F	160	199
113	133	D	120	G	170	209



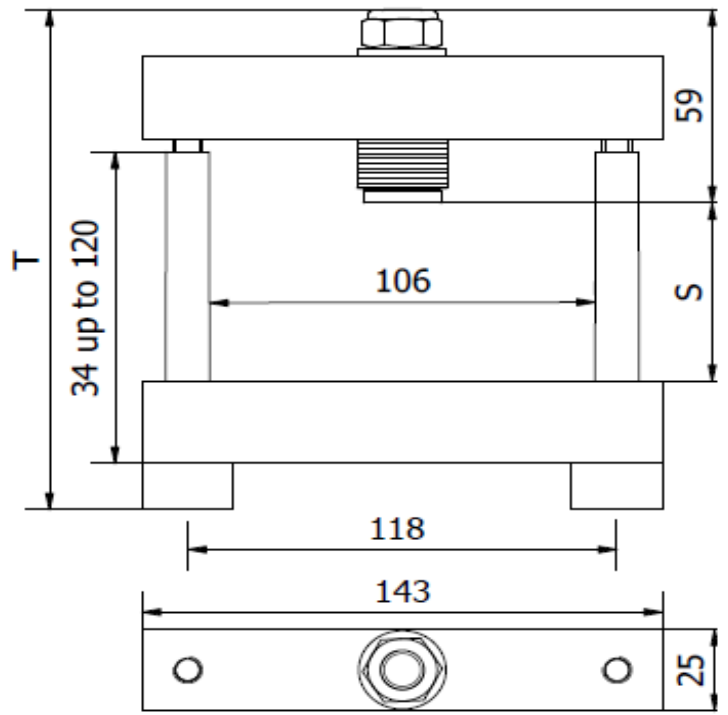
BAR CLAMP COMPONENTS LEGEND



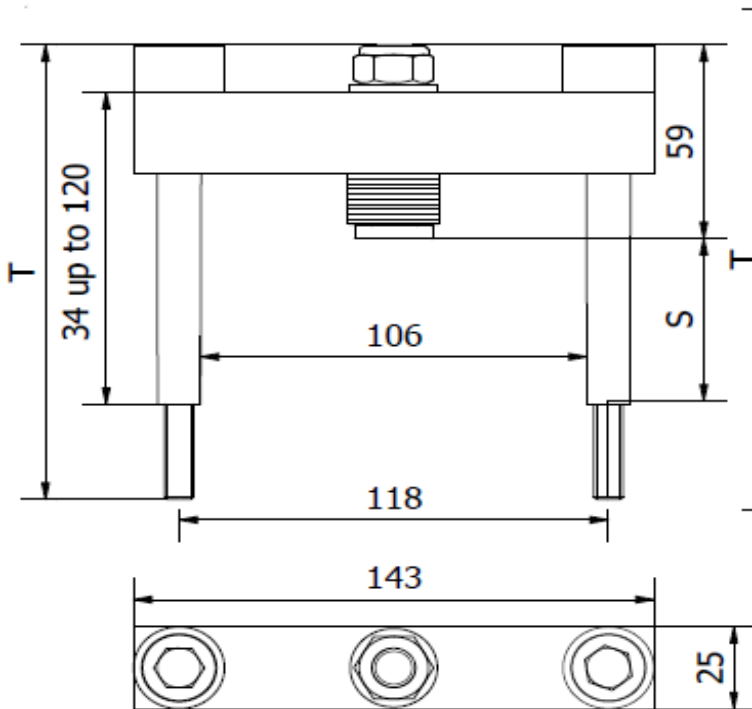
BAR CLAMP OUTLINES



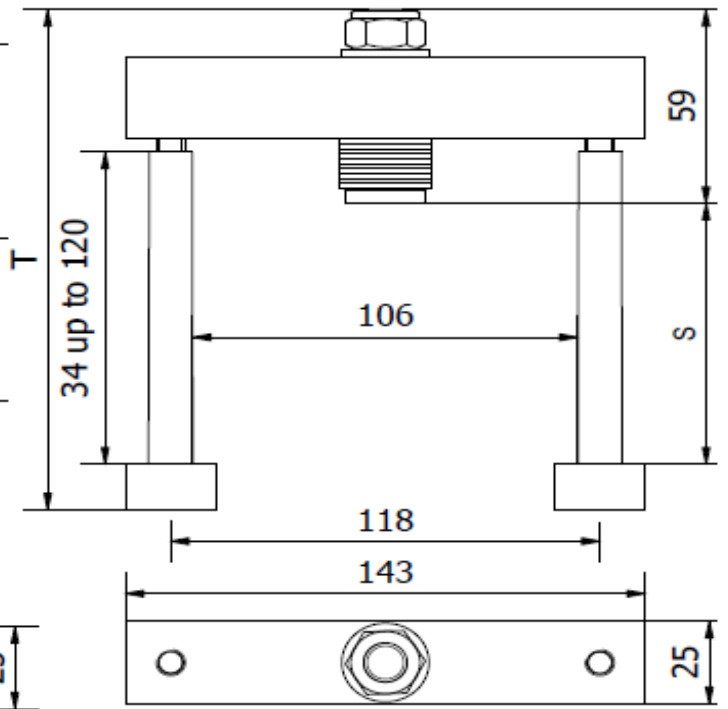
GC118BN...F



GC118BR...F



GC118SN...F

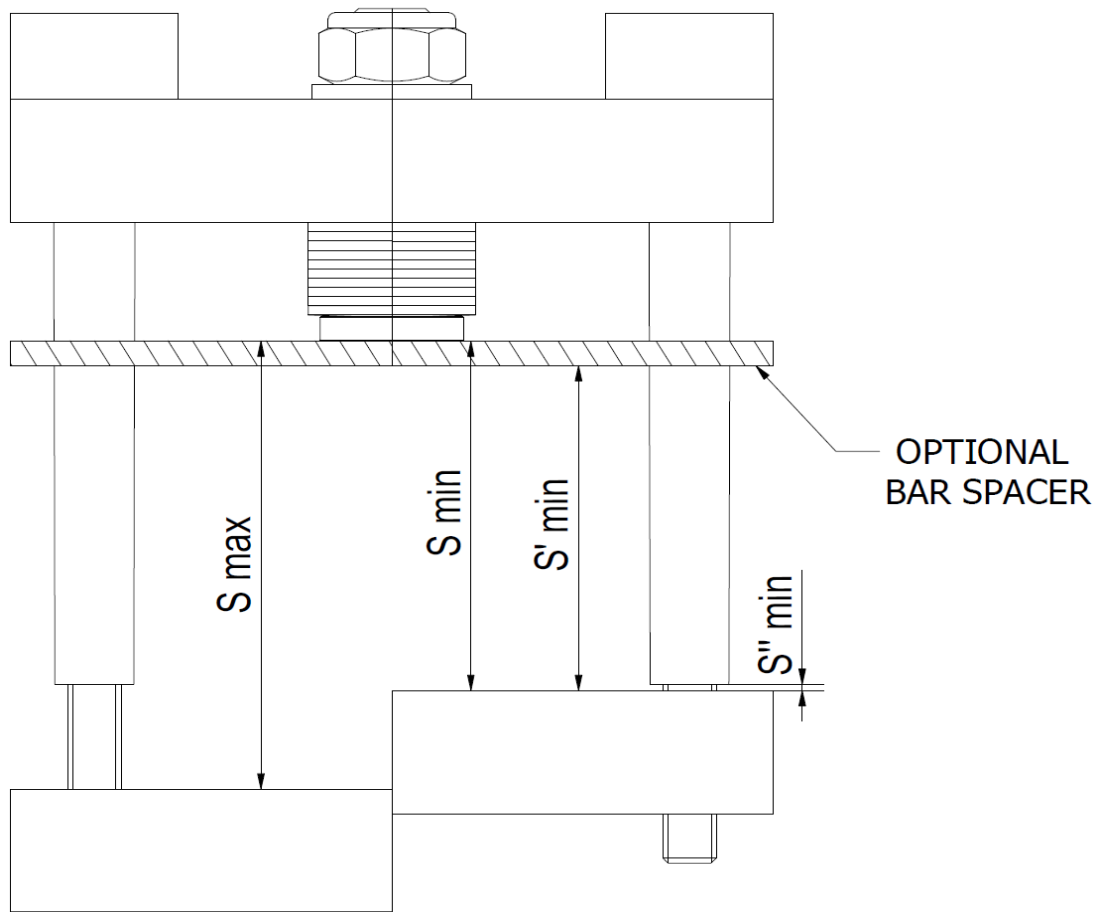


GC118SR...F

Dimensions in mm - Tolerances according to ISO 2768 MK

Step files of clamp structures may be downloaded at [www.gpsemi.it/stepfiles/GC118_F\(file step\).zip](http://www.gpsemi.it/stepfiles/GC118_F(file step).zip) or using this QR



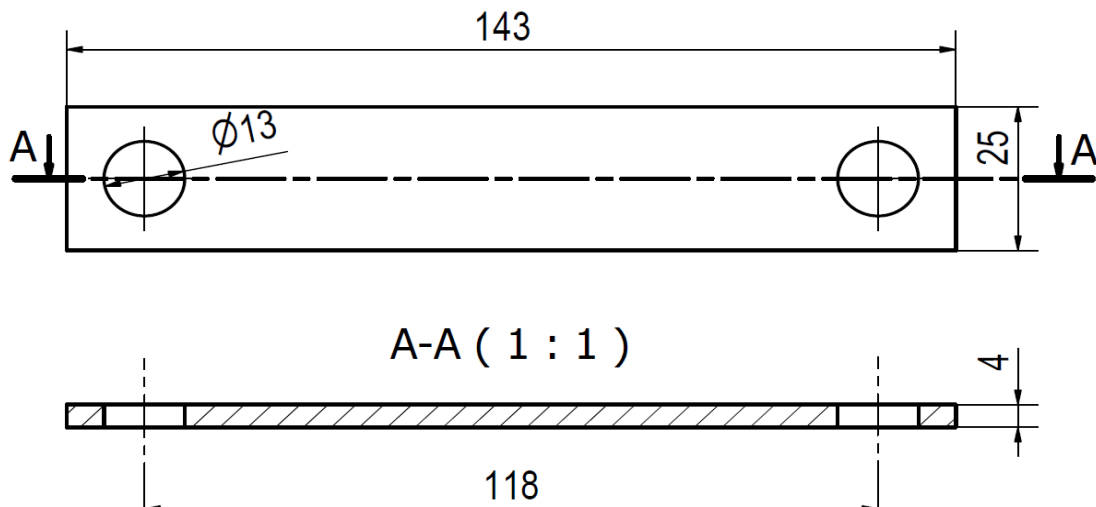


$S''_{min} = 1 \text{ mm}$ (minimum clearance between insulator and reaction bar)

SPECIAL ACCESSORIES

The following special accessories are available on request (see ordering information table)

Bar spacer



Dimensions in mm - Tolerances according to ISO 2768 MK

In the interest of product improvement Green Power Solutions reserves the right to change any specification given in this data sheet without notice.