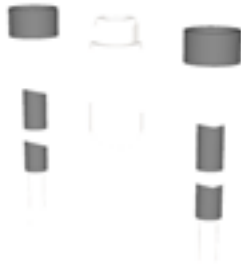
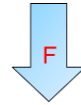


# GC118\_R

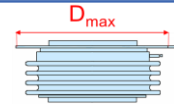
## BAR CLAMP FOR HOCKEY PUK DEVICES



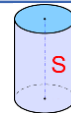
$$F = 22 \text{ kN} \div 32 \text{ kN}$$



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



$$S = 0 \div 126 \text{ mm}$$



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



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)

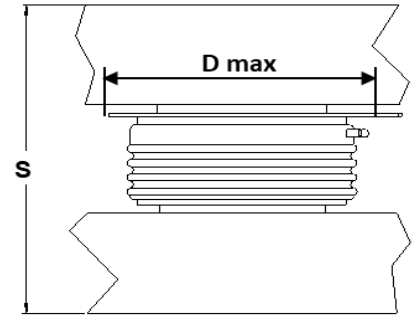
Characteristic	Unit	Types	Testing conditions	Values		
				Min	Typ	Max
F	Clamping Force	kN		22		32
$\Delta F$	Clamping Force tolerance	%				$\pm 10\%$
V <sub>INS</sub>	Insulation Voltage	V	50 Hz, RMS, 60 s		3000	
D <sub>s</sub>	Surface creepage distance	mm			28	
D <sub>a</sub>	Air strike distance	mm			20,3	
m	Mass	g	GC118S...R	930		1030
			GC118B...R	1750		1870
	Insulating Material		Polyphenylene Oxide	PPO		
			Polyphenylene Sulfide	PPS		
	UL Files		PPO	E121562		
			PPS	E95746		
T <sub>op</sub>	Operating temperature range	°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

<b>GC118</b>	<b>B</b>	<b>N</b>	<b>B</b>	<b>A</b>	<b>32</b>	<b>R</b>	<b>S</b>	<b>H</b>	<b>X</b>	<b>L</b>
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	

<b>(1) Construction type:</b>	<b>B</b> = with reaction bar
	<b>S</b> = without reaction bar
<b>(2) Insulator position:</b>	<b>N</b> = on load bar
	<b>R</b> = on reaction bar
<b>(3) Insulator code:</b>	_ = no insulating cup
	<b>other</b> : see table below
<b>(4) Bolt code:</b>	_ = no bolt
	<b>1</b> = only D8 special washers, no bolts
	<b>other</b> : see table below
<b>(5) Clamping force (in kN):</b>	22 kN ÷ 32 kN, with step of 1 kN
<b>(6) Special accessories</b>	<b>blank</b> = no accessories
	<b>S</b> = extra bar spacer (*)
<b>(7) Insulating cup material</b>	<b>0</b> = standart PPO insulating cup
	<b>H</b> high temperature PPS insulating cup
<b>(8) Bolt steel type</b>	<b>0</b> = standard 8.8 steel bolts
	<b>X</b> = A2 stainless steel bolts (**)
<b>(9) Bars thickness</b>	<b>0</b> = standart bars thickness (20 mm)
	<b>L</b> = low profile bars thickness ( 15 mm)



**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

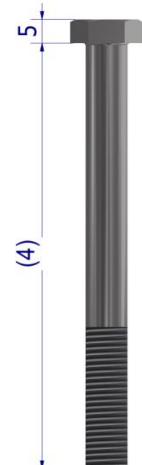
(\*\*) Suggested for high current applications, magnetic sensitive applications or any application working in very high E.M. fields

**Type GC118BN...R: 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	12	A	50	Y	90	112
8	22	B	70	Z	100	122
18	32	B	70	A	110	132
28	42	B	70	B	120	142
32	52	C	95	C	130	158
42	62	C	95	D	140	168
52	72	C	95	E	150	178
62	82	D	120	F	160	188
72	92	D	120	G	170	198
82	102	D	120	H	180	208
92	112	E	150	I	190	218
102	122	E	150	J	200	228

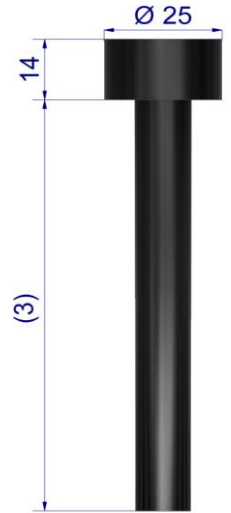

**Type GC118BR...R: suggested insulator/bolt types**

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	12	Z	34	Y	90	129
8	22	A	50	Z	100	139
18	32	B	70	A	110	149
28	42	B	70	B	120	159
32	52	B	70	C	130	169
42	62	C	95	D	140	179
52	72	C	95	E	150	189
62	82	D	120	F	160	199
72	92	D	120	G	170	209
82	102	D	120	H	180	219
92	112	E	150	I	190	229
102	122	E	150	J	200	239



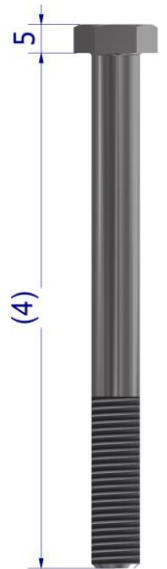
Type GC118SN...R: suggested insulator/bolt types

Allowed clearance S		Insulator choice		Bolt choice		Max height
S <sub>Min</sub> [mm]	S <sub>Max</sub> [mm]	(3)	Ins. Length [mm]	(4)	Bolt Length [mm]	T [mm]
0	11	A	50	W	80	88
7	21	A	50	Y	90	98
17	31	B	70	Z	100	108
27	41	B	70	A	110	118
37	51	B	70	B	120	128
41	61	C	95	C	130	138
51	71	C	95	D	140	148
61	81	C	95	E	150	158
71	91	D	120	F	160	168
81	101	D	120	G	170	178
91	111	D	120	H	180	188
101	121	E	150	I	190	198

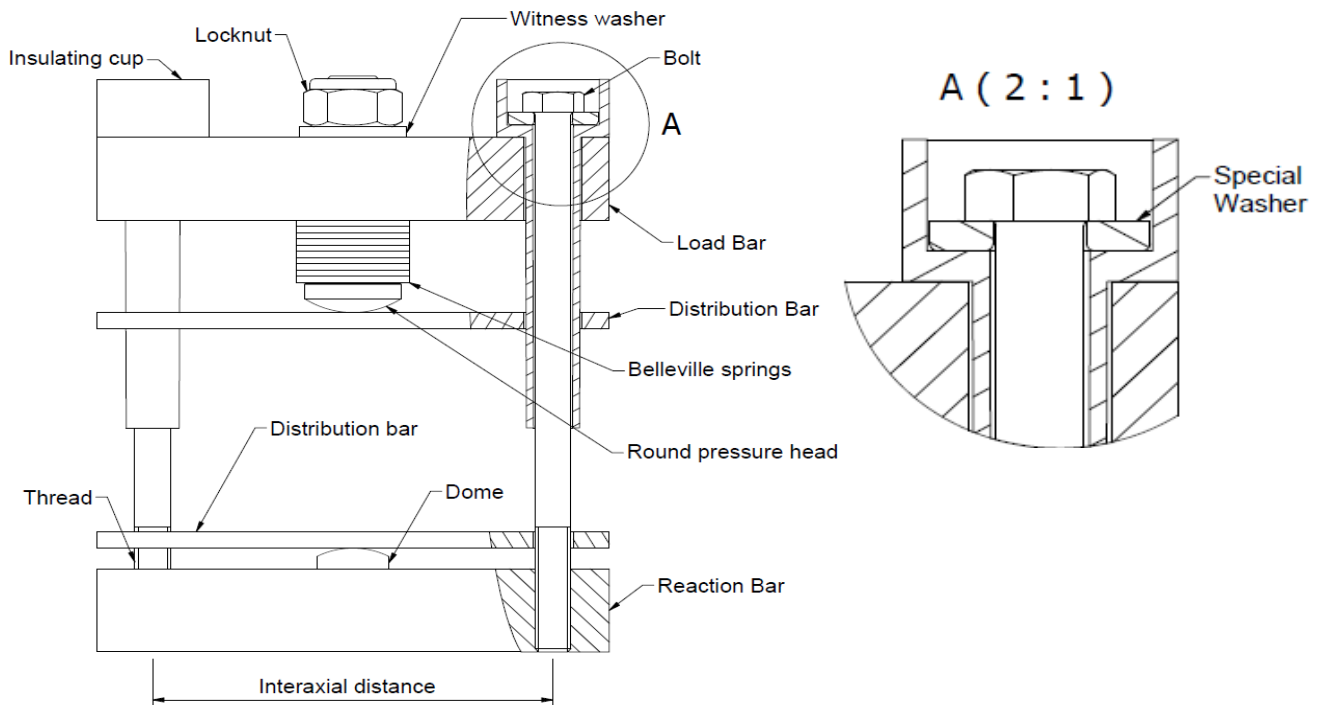


Type GC118SR...R: suggested insulator/bolt types

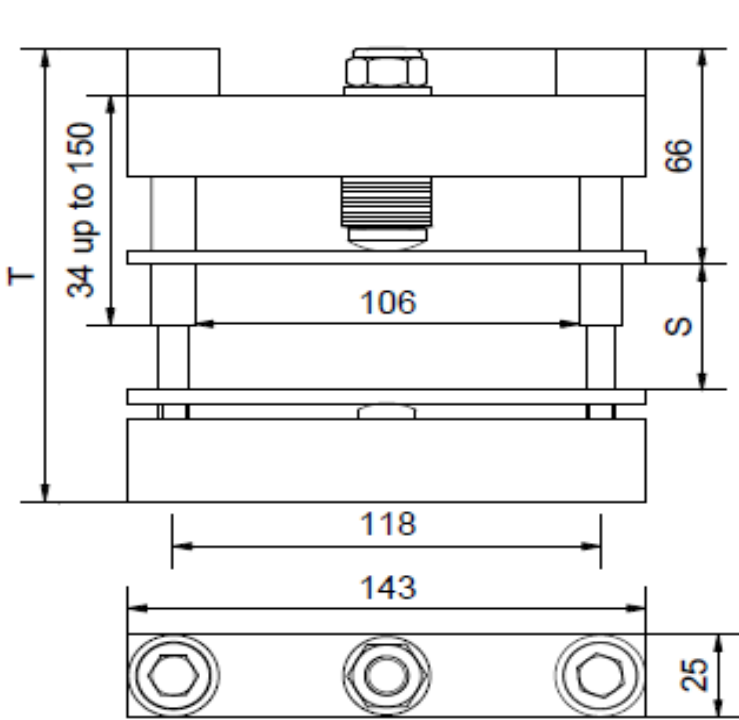
Allowed clearance S		Insulator choice		Bolt choice		Max height
S <sub>Min</sub> [mm]	S <sub>Max</sub> [mm]	(3)	Ins. Length [mm]	(4)	Bolt Length [mm]	T [mm]
12	26	Z	34	U	70	106
17	31	Z	34	V	75	111
22	36	A	50	W	80	116
32	46	A	50	Y	90	126
42	56	B	70	Z	100	136
52	66	B	70	A	110	146
62	76	B	70	B	120	156
66	86	C	95	C	130	172
76	96	C	95	D	140	182
86	106	C	95	E	150	192
96	116	D	120	F	160	202
106	126	D	120	G	170	212



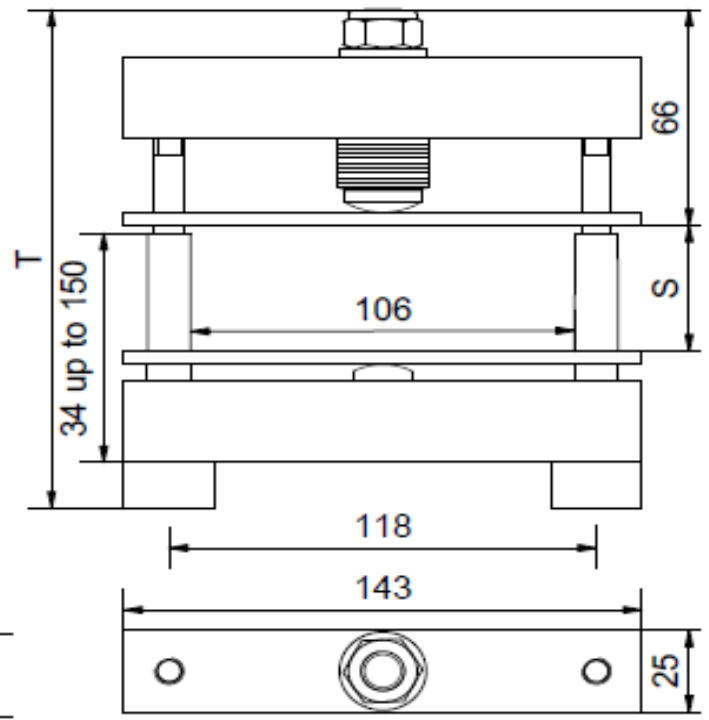
BAR CLAMP COMPONENTS LEGEND



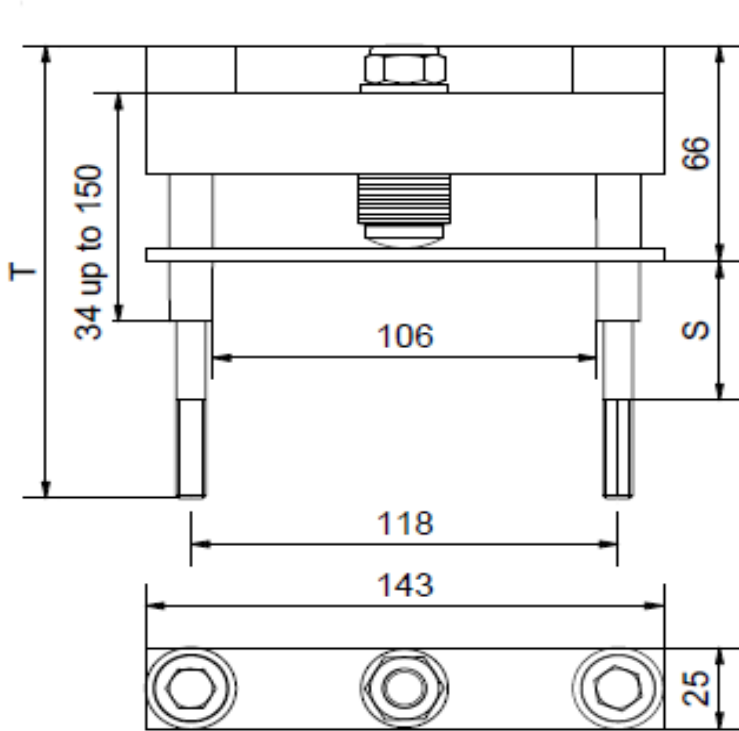
BAR CLAMP OUTLINES



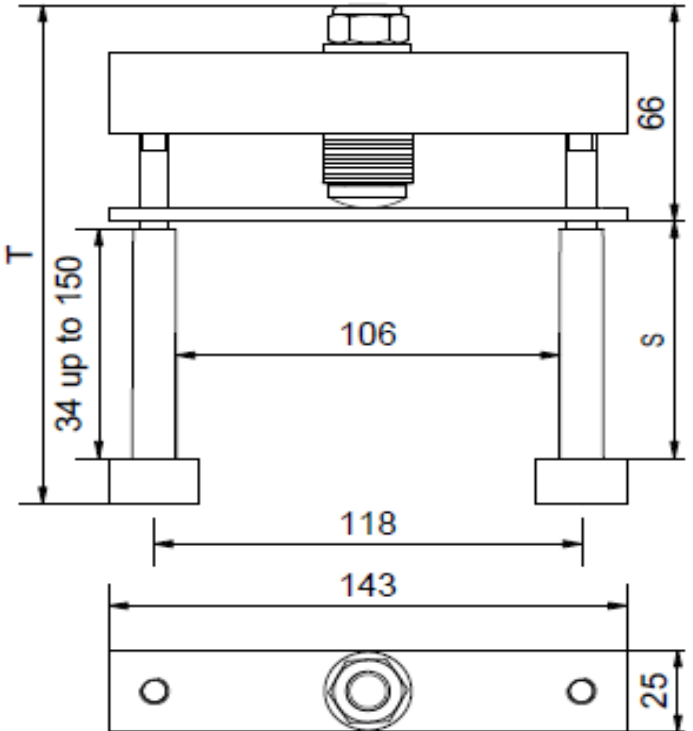
GC118BN...R



GC118BR...R



GC118SN...R

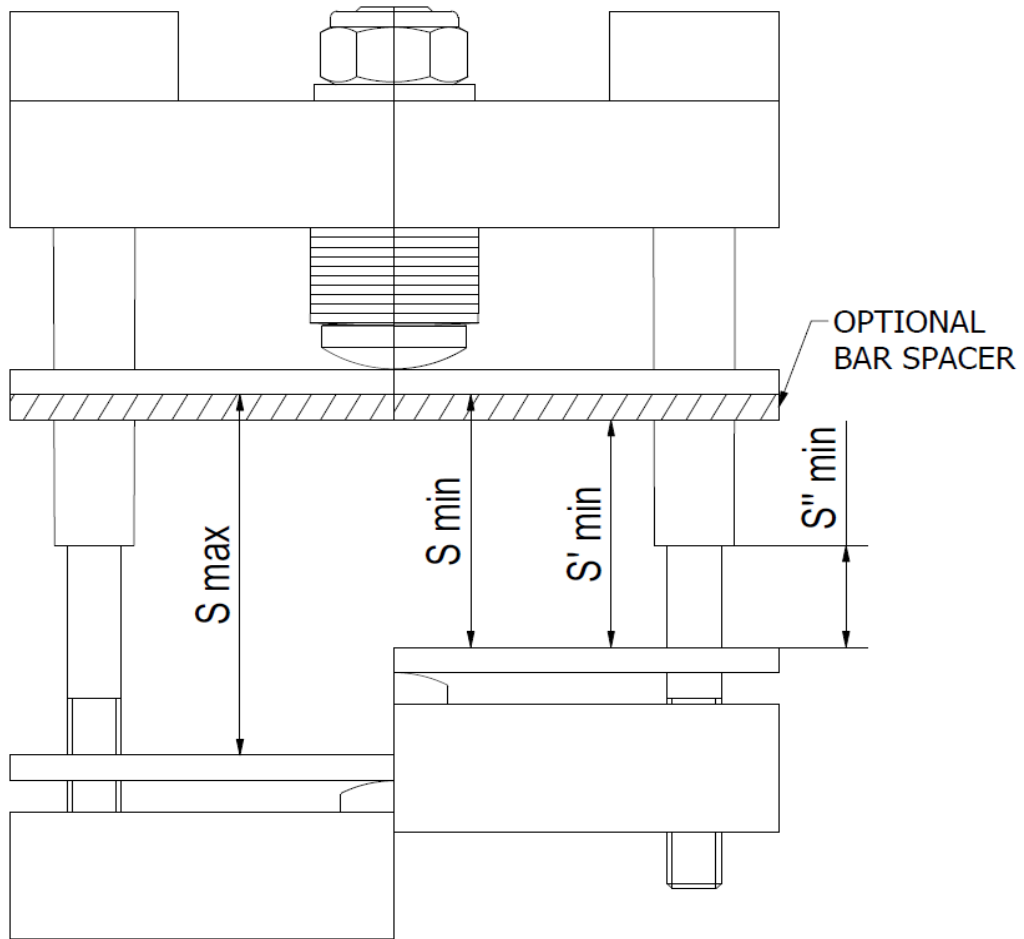


GC118SR...R

Dimensions in mm - Tolerances according to ISO 2768 MK

Step files of clamp structures may be downloaded at [www.gpsemi.it/stepfiles/GC118\\_R\(file step\).zip](http://www.gpsemi.it/stepfiles/GC118_R(file step).zip) or using this QR



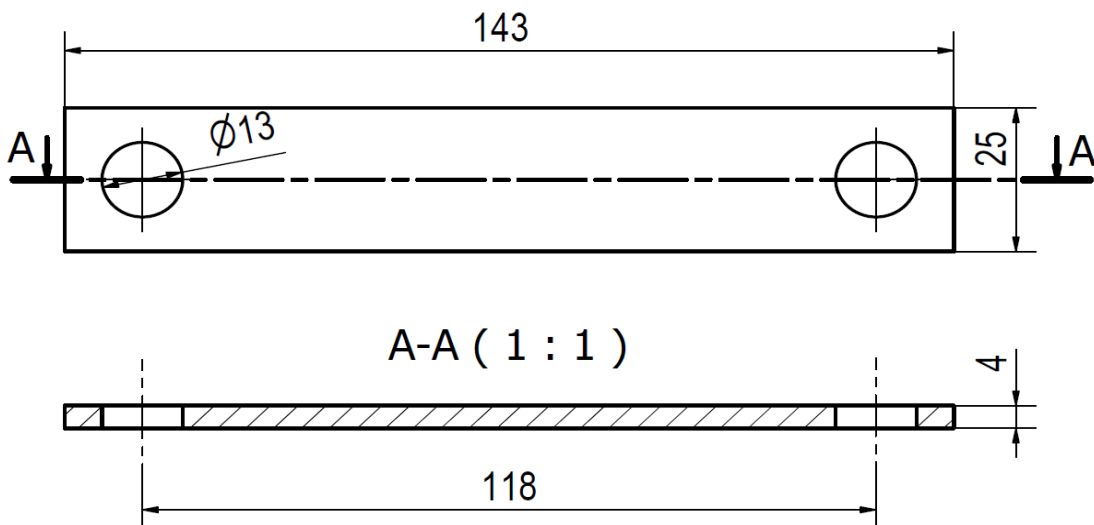


S''\_min = 1 mm (minimum clearance between insulator and distribution bar)

### 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.