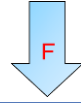


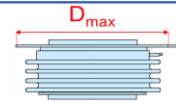
GC102_R

BAR CLAMP FOR HOCKEY PUK DEVICES

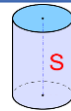
$F = 12 \text{ kN} \div 24 \text{ kN}$



$D_{max} = 89 \text{ mm}$



$S = 0 \div 129 \text{ mm}$



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



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)

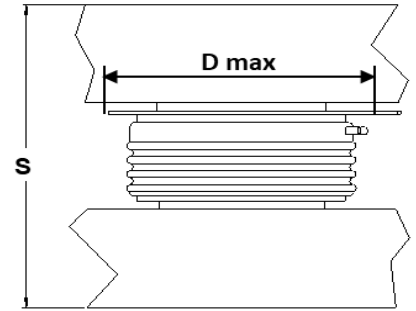
Characteristic		Unit	Types	Testing conditions	Values		
					Min	Typ	Max
F	Clamping Force	kN			12		24
ΔF	Clamping Force tolerance	%					$\pm 10\%$
V_{INS}	Insulation Voltage	V		50 Hz, RMS, 60 s		3000	
D_s	Surface creepage distance	mm				28	
D_a	Air strike distance	mm				20,3	
m	Mass	g	GC102S...R		800		950
			GC102B...R		1390		1550
	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

GC102	B	N	B	A	24	R	S	H	X	L
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	

(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):	12 kN ÷ 24 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) Bars thickness	0 = standart bars thickness (20 mm) L = 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

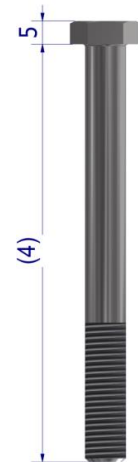
(**) Suggested for high current applications, magnetic sensitive applications or any application working in very high E.M. fields

Type GC102BN...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	10	A	50	W	80	102
6	20	A	50	Y	90	112
16	30	B	70	Z	100	122
26	40	B	70	A	110	132
36	50	B	70	B	120	142
40	60	C	95	C	130	158
50	70	C	95	D	140	168
60	80	C	95	E	150	178
70	90	D	120	F	160	188
80	100	D	120	G	170	198
90	110	D	120	H	180	208
100	120	E	150	I	190	218

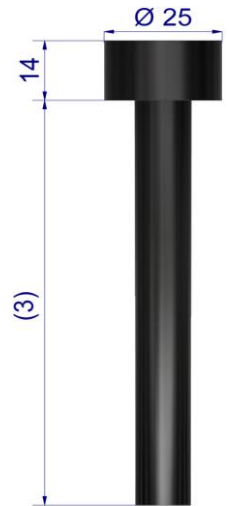

Type GC102BR...R: suggested insulator/bolt types

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	10	A	50	W	80	114
6	20	A	50	Y	90	124
16	30	A	50	Z	100	134
26	40	B	70	A	110	144
36	50	B	70	B	120	154
40	60	C	95	C	130	164
50	70	C	95	D	140	174
60	80	C	95	E	150	184
70	90	D	120	F	160	194
80	100	D	120	G	170	204
90	110	D	120	H	180	214
100	120	E	150	I	190	224



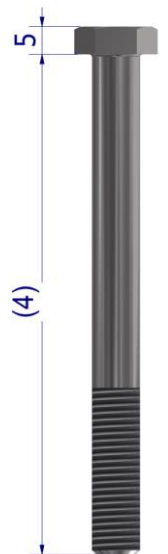
Type GC102SN...R: suggested insulator/bolt types

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	14	Z	34	V	75	83
5	19	A	50	W	80	88
15	29	A	50	Y	90	98
25	39	B	70	Z	100	108
35	49	B	70	A	110	118
45	59	B	70	B	120	128
49	69	C	95	C	130	138
59	79	C	95	D	140	148
69	89	C	95	E	150	158
79	99	D	120	F	160	168
89	109	D	120	G	170	178
99	119	D	120	H	180	188

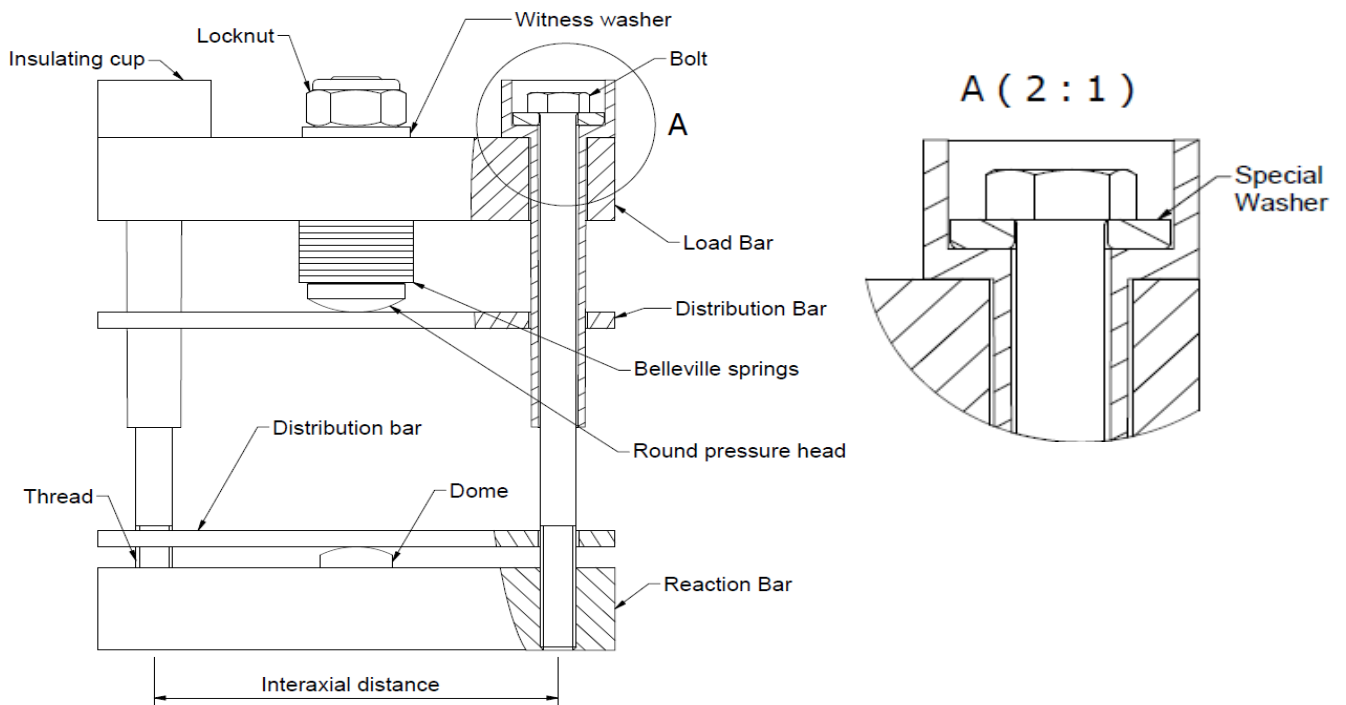


Type GC102SR...R: suggested insulator/bolt types

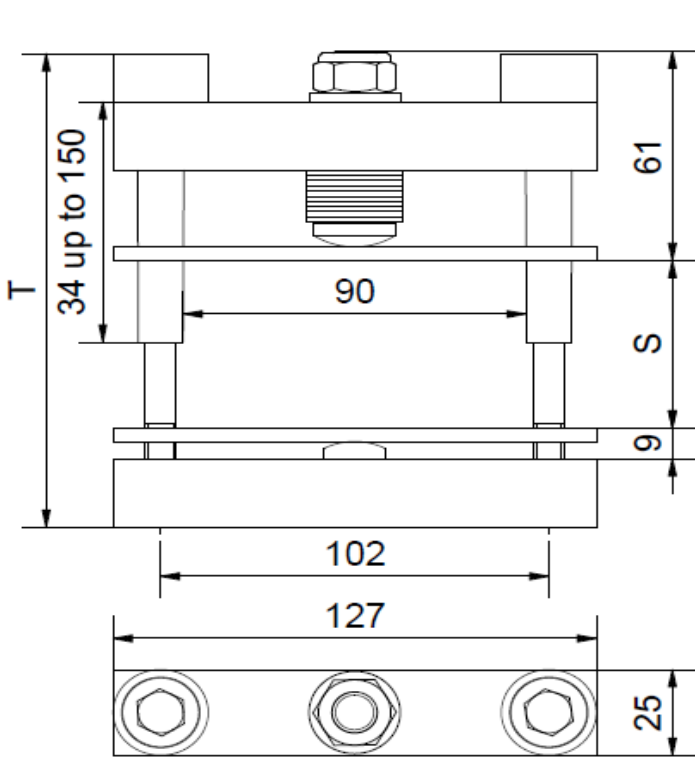
Allowed clearance S		Insulator choice		Bolt choice		Max height
S _{Min} [mm]	S _{Max} [mm]	(3)	Ins. Length [mm]	(4)	Bolt Length [mm]	T [mm]
15	29	Z	34	U	70	106
20	34	Z	34	V	75	111
25	39	A	50	W	80	116
35	49	A	50	Y	90	126
45	59	B	70	Z	100	136
55	69	B	70	A	110	146
65	79	B	70	B	120	156
69	89	C	95	C	130	172
79	99	C	95	D	140	182
89	109	C	95	E	150	192
99	119	D	120	F	160	202
109	129	D	120	G	170	212



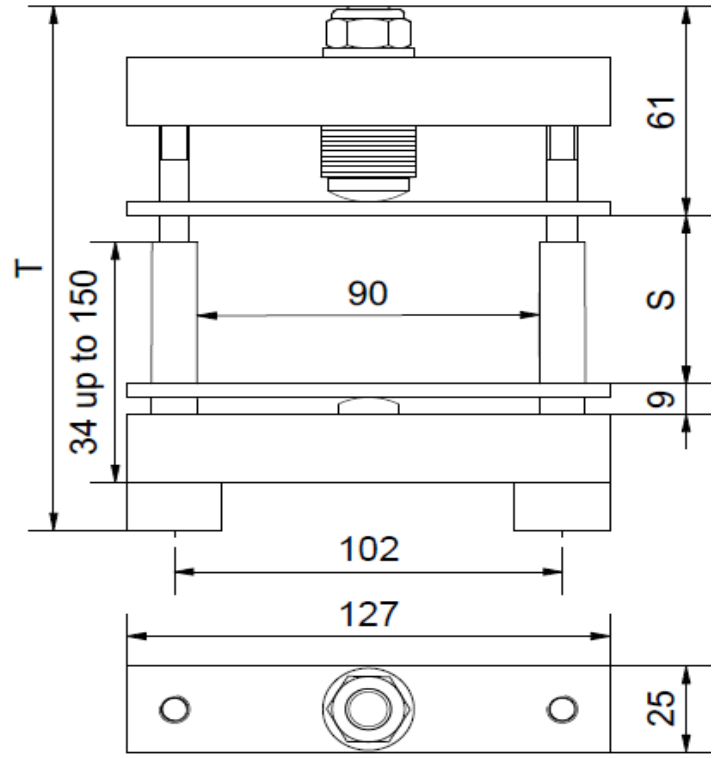
BAR CLAMP COMPONENTS LEGEND



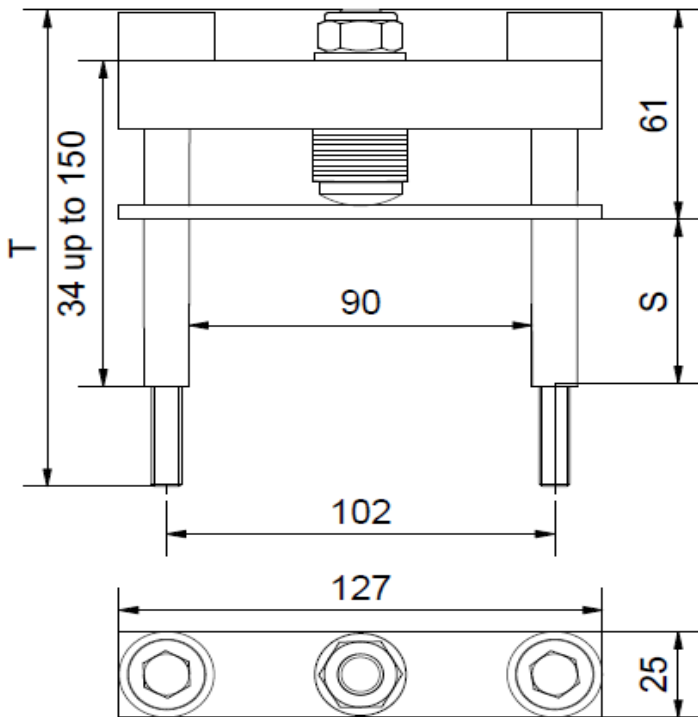
BAR CLAMP OUTLINES



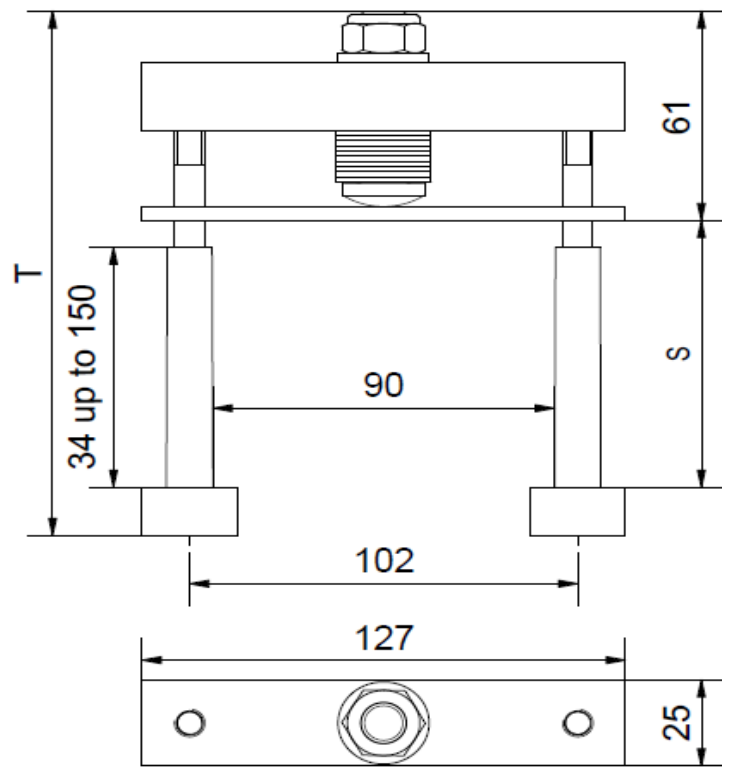
GC102BN...R



GC102BR...R



GC102SN...R

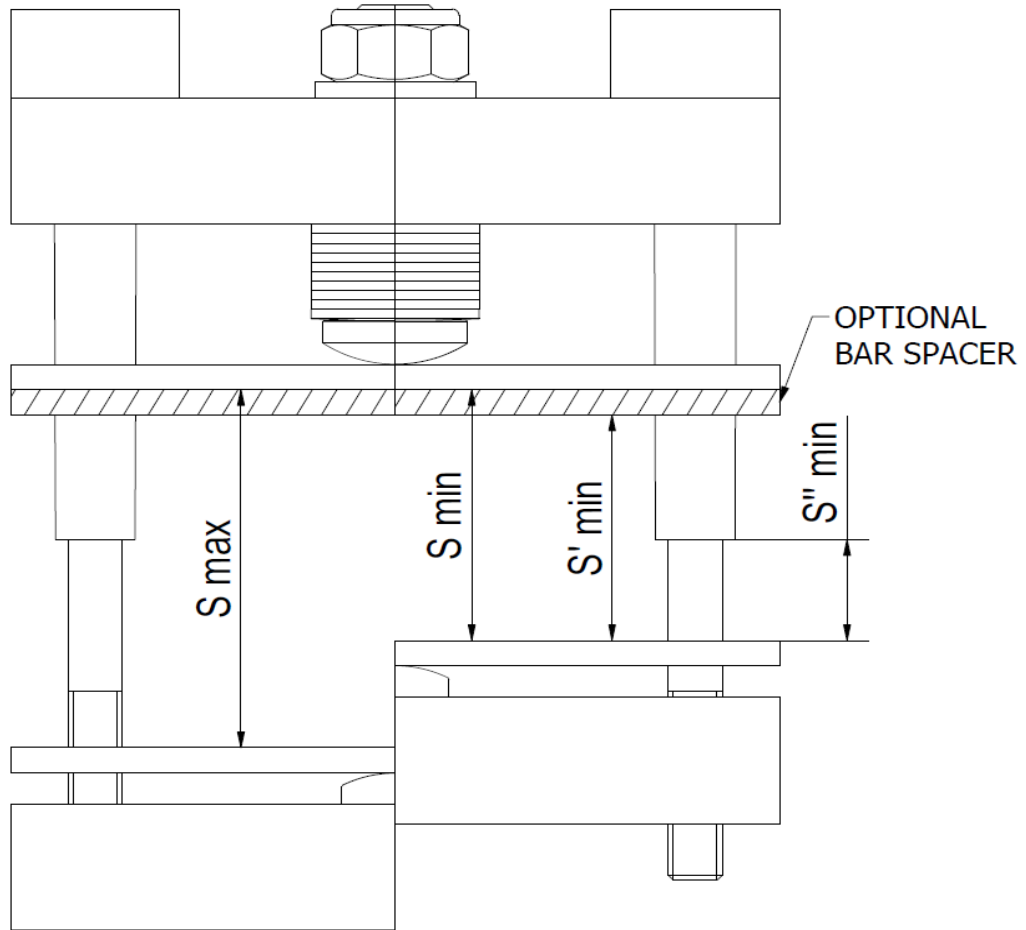


GC102SR...R

Dimensions in mm - Tolerances according to ISO 2768 MK

Step files of clamp structures may be downloaded at [www.gpsemi.it/stepfiles/GC102_R\(file step\).zip](http://www.gpsemi.it/stepfiles/GC102_R(file step).zip) or using this QR



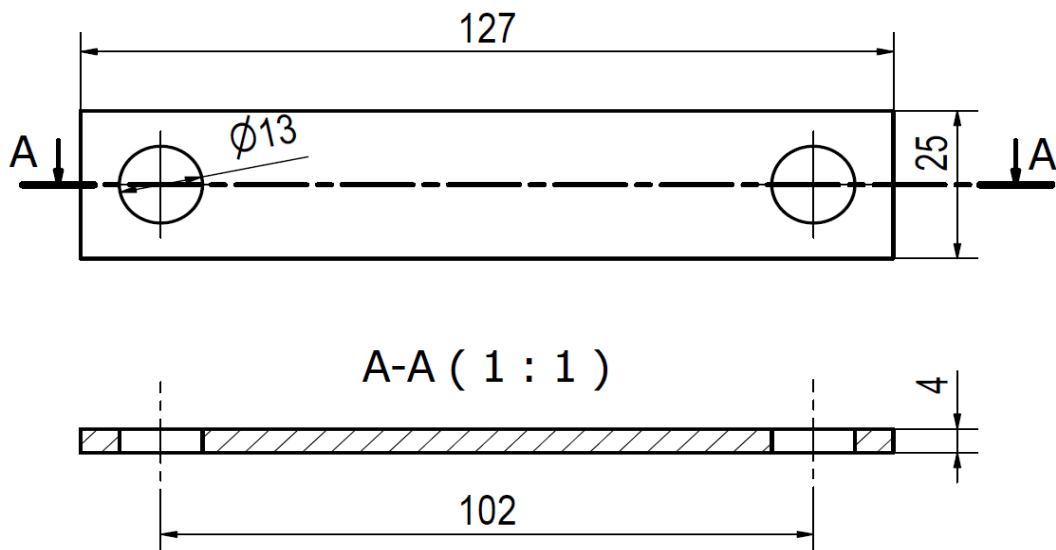


$S''_{min} = 1 \text{ mm}$ (minimum clearance between insulator and distribution bar)

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.