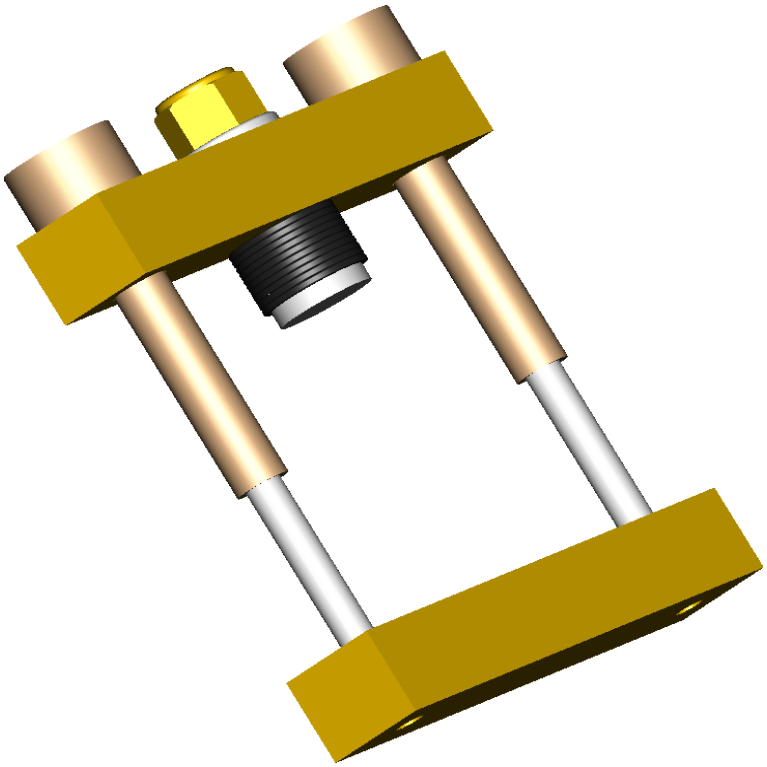
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GC102…F

BAR CLAMP FOR HOCKEY PUK DEVICES

Clamping total thikness of assembly from 29mm to 128mm
Pre-loaded to the specific clamping force (12 ÷ 24 kN)
Maximum device diameter: 89mm
Surface passivation to provide extra protection
Hexagon head bolt partially threaded M8x1.25, UNI5737, 8.8 steel
Various lengths of bolts and insulators
Flat clamping head for optimal clamping force application
Four styles available
User friendly clamping force indicator
UL94 certified insulation material

Parameter	Unit	Types	Testing conditions	Notes	Values		
					Min	Typ	Max
Weight	g	GC102S…F			700		850
		GC102B…F			1190		1350
Clamping Force*	kN	GC102…12F				12	
		GC102…16F				16	
		GC102…22F				22	
		GC102…24F				24	
Clamping Force tolerance						± 10%	
Insulation Voltage	V_{RMS}		1 min			3000	
Insulating Material				Noryl ® **			
UL File				E121562			
Max. working temperature	°C				-30		110
Creepage distance:	mm					28	
Clearance distance:	mm					20.3	
Storage temperature	°C				-40		110
Flammability	mm			UL94 V-1 Flame class rating		1.5	
	mm			UL94 V-0 Flame class rating		8.00	
	mm			CSA Flammability		1.00	

* Other clamping forces available: contact factory

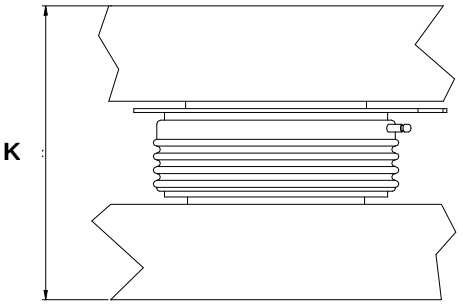
** Noryl ® is a registered trade mark of General Electric

ORDERING INFORMATION TABLE

Clamps can be ordered using the following part numbering system

GC102	B	N	B	A	20	F	S
	(1)	(2)	(3)	(4)	(5)		(6)

(1) Construction type:	B = with double bar
	S = with single bar
(2) Insulator position:	N = upper side
	R = lower side
(3) Insulator code:	see table below
(4) Bolt code:	see table below
(5) Clamping force (in kN):	12
	16
	20
	24
(6) Special accessories	blank = no accessories
	S = extra bar spacer



K: Total thickness of the assembly to be clamped

For thicknesses $S'_{Min} < K < S_{Min}$ an additional 4mm thick bar spacer is needed (see list of special accessories)

Type GC102BN…F: suggested insulator/bolt types

Allowed clearance S			Insulator choice		Bolt choice		Max height
S'_{Min} [mm]**	S_{Min} [mm]	S_{Max} [mm]	(3)	Ins. Length [mm]	(4)	Bolt Length [mm]	T [mm]
29	33	48	A	50	Z	100	117
39	43	58	B	70	A	110	127
49	53	68	B	70	B	120	137
59	63	78	C	95	C	130	147
69	73	88	C	95	D	140	157
79	83	98	C	95	E	150	167
89	93	108	D	120	F	160	177

** with additional bar spacer only

Type GC102BR…F: suggested insulator/bolt types

Allowed clearance S			Insulator choice		Bolt choice		Max height
S'_{Min} [mm]**	S_{Min} [mm]	S_{Max} [mm]	(3)	Ins. Length [mm]	(4)	Bolt Length [mm]	T [mm]
29	33	48	A	50	Z	100	129
39	43	58	A	50	A	110	139
49	53	68	B	70	B	120	149
59	63	78	B	70	C	130	159
69	73	88	B	70	D	140	169
79	83	98	C	95	E	150	179
89	93	108	C	95	F	160	189

** with additional bar spacer only

Type GC102SN…F: suggested insulator/bolt types

Allowed clearance S			Insulator choice		Bolt choice		Max height
S'_{Min} [mm]**	S_{Min} [mm]	S_{Max} [mm]	(3)	Ins. Length [mm]	(4)	Bolt Length [mm]	T [mm]
29	33	48	A	50	Z	100	110
39	43	58	B	70	A	110	120
49	53	68	B	70	B	120	130
59	63	78	C	95	C	130	140
69	73	88	C	95	D	140	150
79	83	98	C	95	E	150	160
89	93	108	D	120	F	160	170

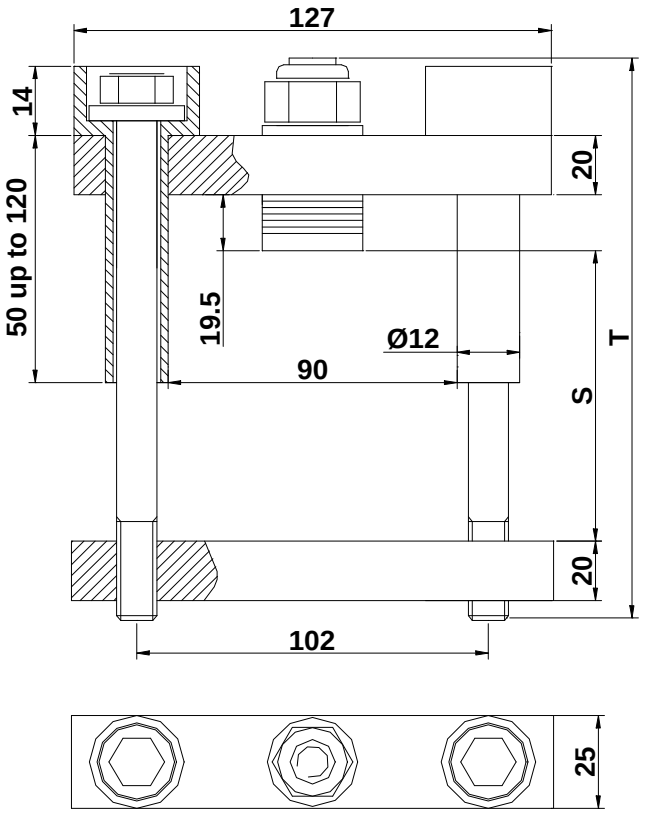
** with additional bar spacer only

Type GC102SR…F: suggested insulator/bolt types

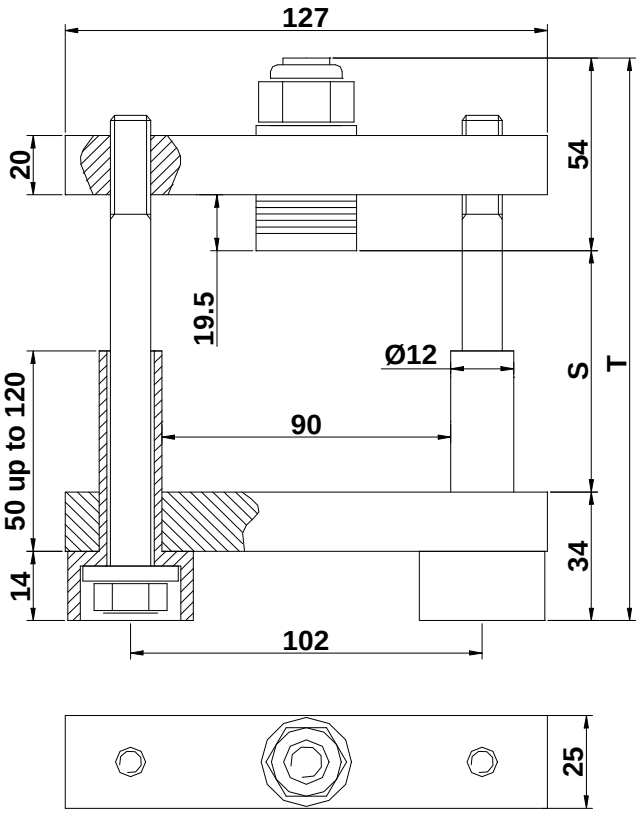
Allowed clearance S			Insulator choice		Bolt choice		Max height
S'_{Min} [mm]**	S_{Min} [mm]	S_{Max} [mm]	(3)	Ins. Length [mm]	(4)	Bolt Length [mm]	T [mm]
49	53	68	B	70	Z	100	129
59	63	78	B	70	A	110	139
69	73	88	B	70	B	120	149
79	83	98	C	95	C	130	159
89	93	108	C	95	D	140	169
99	103	118	D	120	E	150	179
109	113	128	D	120	F	160	189

** with additional bar spacer only

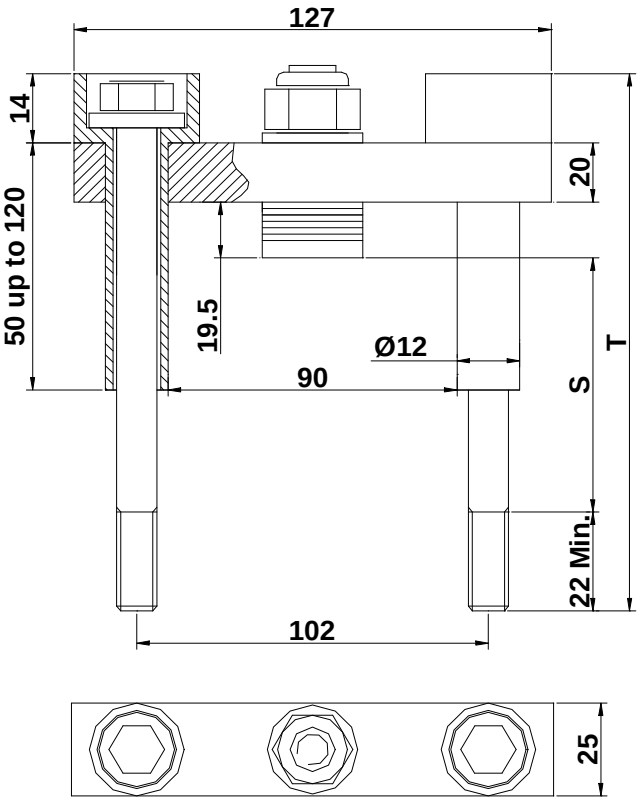
BAR CLAMP OUTLINES



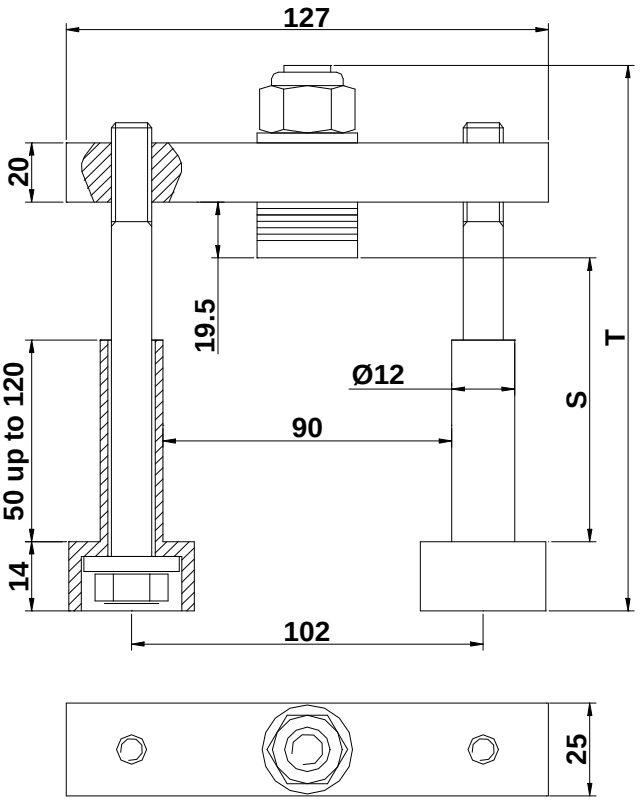
GC102BN...F



GC102BR...F

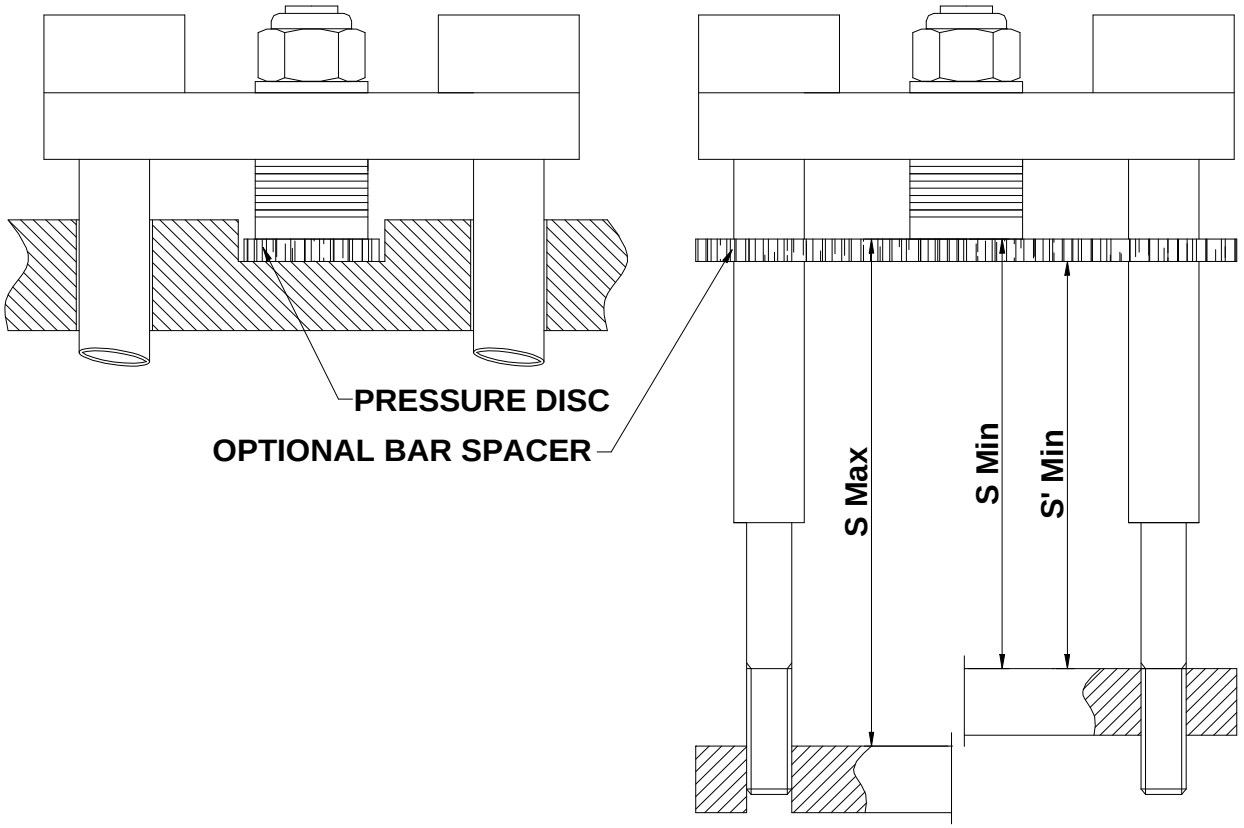


GC102SN...F



GC102SR...F

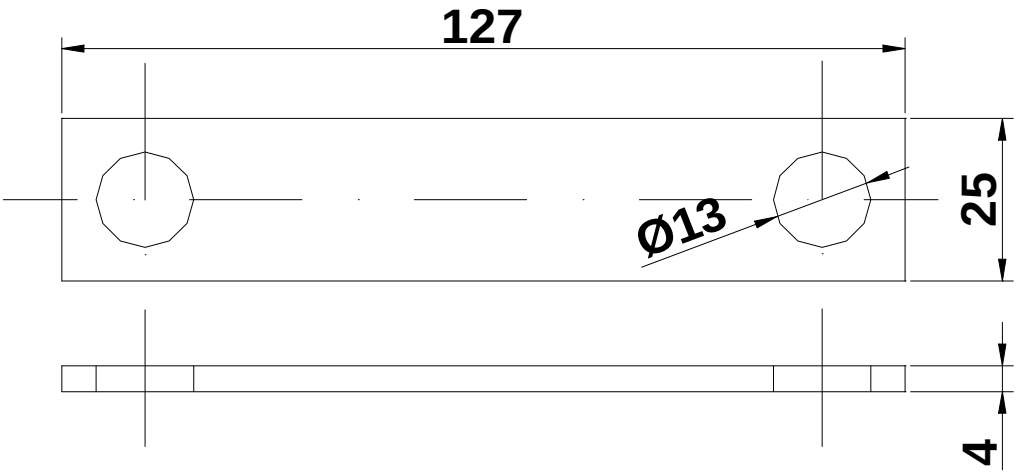
Dimensions in mm - Tolerances according to ISO 2768 MK



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.