

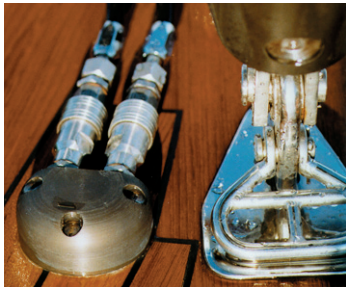
(B50-B51-B52-B53-B54-B55) "GFI" HYDRAULIC FORESAIL FURLER

Bamar "GFI" series: hydraulic systems to furl and reef foresails, a combination between innovative technology and experience acquired at the service of prestigious boat yards.

These systems offer and grant great performance and long life, because they are designed and manufactured with the best materials and CNC machines. These products need scarce maintenance and are supplied with vanguard transmission systems. The use of high quality industrial parts such as bearings, gears, and worm screws, makes the automatic stop reduction gear smooth and silent. The high torque efficiency developed by the GFI is granted by the use of "DANFOSS" orbital hydraulic motors. The worm screw reduction gear is an irreversible mechanism that absorbs the load created by the sail area without transmitting it to the hydraulic motor.

The manual emergency clutch represents an extra safety element for the user: it is operated with a winch handle. During the manual operation, the hydraulic motor must not be started.

One of the main characteristics of BAMAR GFI hydraulic systems is the possibility of being combined with an integrated hydraulic cylinder that allows for the tension of the stay. Thus, each model may be supplied in the "standard" version or "with hydraulic stay adjuster".



The lower toggle is **customized** to perfectly adapt to the chain plate.

All Bamar hydraulic components make use of environment friendly oil, in compliance with EU rules.

Every piece is tested before shipment, in order to check its conformity to technical characteristics.

Quick release through deck fitting made of stainless steel and aluminium - you may disconnect the forestay without oil leak.
Code 311050001



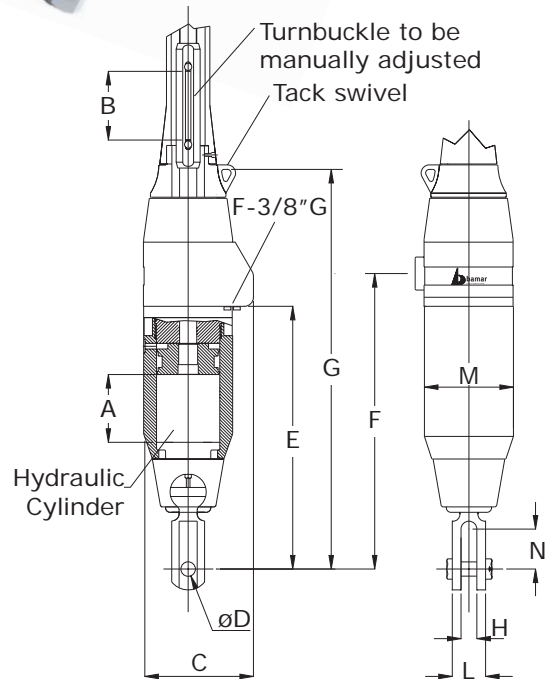
Oil intake (lower side)



Version without integrated cylinder to tension the stay



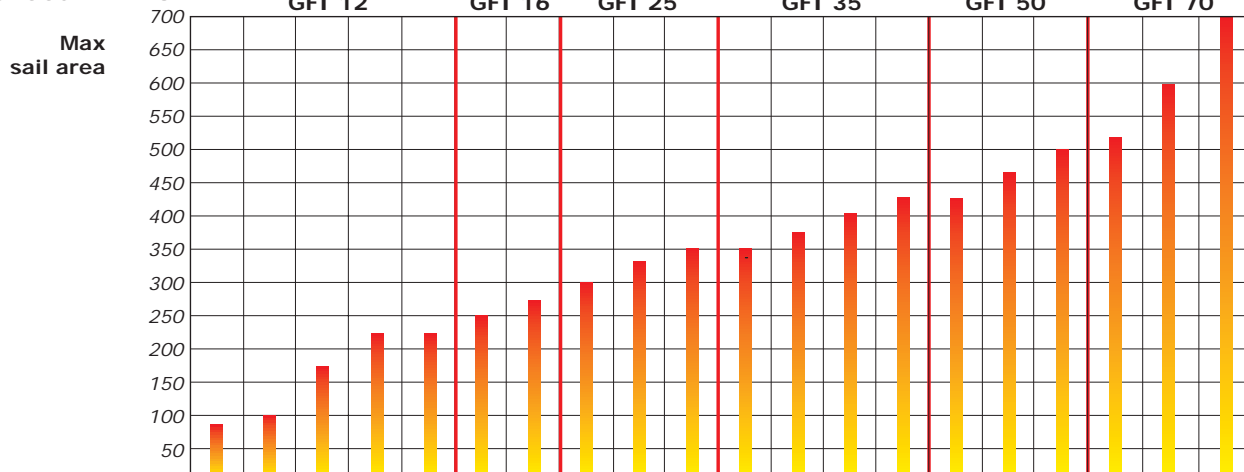
Version with integrated cylinder to tension the stay



GFI description of parts		12	12C	16	16C	25	25C	35	35C	50C	70C
Continuous / intermitting oil flow	lt/min	20 - 25		20 - 25		20 - 25		20 - 25		60 - 75	*
Foil speed @20 lt/min	RPM	41.8		31		33.4		33.4		22@30 lt/min	-
Continuous / intermitting oil pressure	bar	100 - 140		100 - 140		100 - 140		100 - 140		175 - 200	*
Cylinder stroke	A mm		100		100		150		150	300	300
Turnbuckle stroke	B mm	100		100		150		150		200	200
Body dimension	C mm	202		231		243		271		380	530
Pin Ø range	D mm	15.6 - 25		25 - 28.5		31.5 - 35		35 - 44		custom	custom
Body dimension	E mm	235	422	261	462	318	581	397	625	770	1038
Emergency clutch	F mm	278	465	304	505	390	654	443	698	770	1230
Sail tack	G mm	492	680	558	760	621	884	729	984	1180	1364
Fork width	H mm	29		29		35		46		custom	custom
Fork external dimension	L mm	54		61		74		90		custom	custom
Body dimension / Cylinder external Ø	M mm	148		177		197		227		240	360
Fork height	N mm	40		50		88		115		custom	custom
GFI weight (C=with hydraulic cylinder)	Kg	26	32	42	52	55	74	82	105	188	

* data available on demand

HOW TO CHOOSE THE FURLER



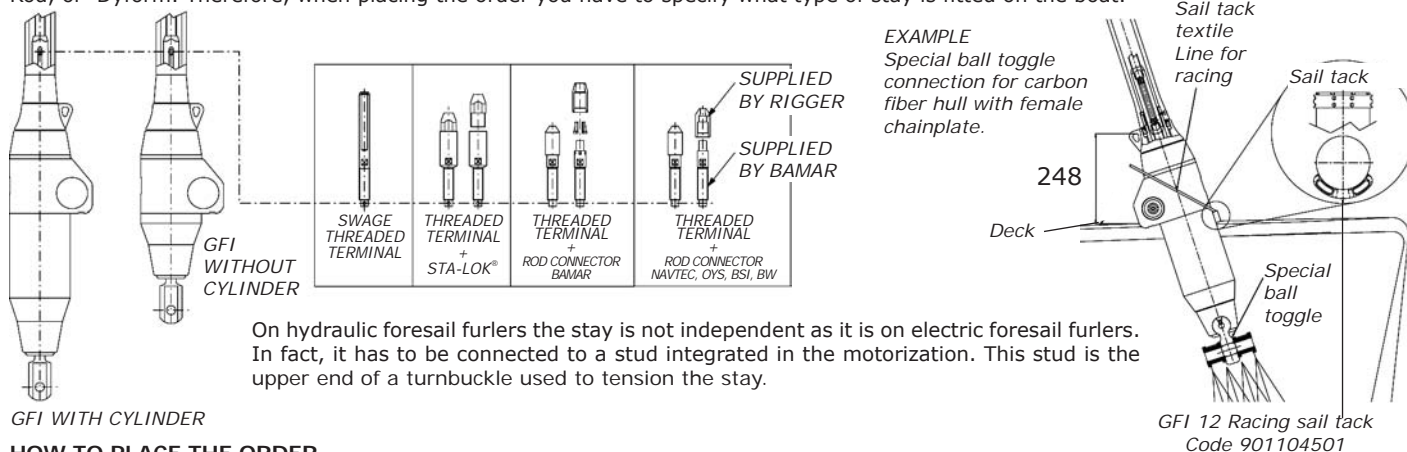
Type of foil BMG	40R	40R	52	52	60	60	70	70	80	90	90	110	110	110	110	125	125	125	185	185
Max Rod section #	-10/-17	-22/-30	-30	-40	-40	-40	-48	-60*	-76	-91	-91	-115	-150	-170	-170	-260	-320	-320	-360	-430
(1x19) Max wire ø mm	10	12	12	14	16	16	19	22	26	26	26	28	32	-	-	36	-	-	-	-
Max stay length m	16.5	22.5	25.5	27	27	30	33	36	39	42	42	42	45	45	45	55	60	60	60	70

* only continuous length coil

The foresail furler "GFI" kit includes:

- hydraulic motorization
- manual turnbuckle
- hoisting foil
- halyard swivel + shackles
- liquid sealant
- stainless steel ball toggle
- tack adapter
- foils + connectors
- screws to lock connectors

The kit does not include the threaded terminal for the connection to the stay, because it differs depending whether the stay is in 1x19 wire, Rod, or Dyform. Therefore, when placing the order you have to specify what type of stay is fitted on the boat.



On hydraulic foresail furlers the stay is not independent as it is on electric foresail furlers. In fact, it has to be connected to a stud integrated in the motorization. This stud is the upper end of a turnbuckle used to tension the stay.

HOW TO PLACE THE ORDER

1. Determine the model depending on stay length and diameter, foresail area, and boat length.
2. Choose the right terminal for the stay.
3. Decide whether you want to install an integrated cylinder to tension the stay (please refer to product group B56, page 28). In such case you will also need a BHP hydraulic panel (please refer to product group E10, on Brochure " Power-packs, cylinders, accessories,") complete with hydraulic plant and fittings (please refer to product group E96, on Brochure " Power-packs, cylinders, accessories").

B50	GFI 12						GFI 12 RACING	
	BMG40R		BMG50R	BMG52	BMG60	BMG52	BMG60	
(1x19) stay ø mm	08	10	12	12	14	16	Custom only for stowing	Custom only for stowing
ROD #	-10	-17	-22 / -30	-30	-40	-40	-48	-60
Length m	110301081509		110301101510		110301122609		110301122610	
15.0								
16.5								
18.0			110301122511		110301122611 110301142611			
19.5			110301122512		110301122612 110301142612			
21.0			110301122513		110301122613 110301142613		110301163013	
22.5					110301142614		110301163014	
24.0					110301142615		110301163015	
25.5					110301142616		110301163016	
27.0					110301142617		110301163017	
33.0							110301602622 110301612622	
SWAGE threaded terminal			904010112	904010112	904010114	904010116		
STA-LOK® threaded terminal	904010208	904010210	904010212	904010212	904010214	904010216		
ROD BAMAR threaded terminal	904010353	904010356	904010357	904010358	904010359	904010359	904010360	904010361
ROD NAVTEC threaded terminal	904010453	904010456	904010457	904010458	904010459	904010459	904010460	904010461
ROD OYS threaded terminal	904010553	904010556	904010557	904010558	904010559	904010559	904010560	904010561
ROD BSI threaded terminal	904010653	904010656	904010657	904010658	904010659	904010629	904010660	904010661

B51		GFI 16	
Foil section		BMG60	BMG70
(1x19) stay ø mm		16	19
ROD #	-40	-48	-48
Length	m		
	21.0	110302163013	
	22.5	110302163014	
	24.0	110302163015	
	25.5	110302163016	110302193516
	27.0	110302163017	110302193517
	30.0	110302163019	110302193519
	31.5	110302163020	
	33.0		110302193521
	36.0		110302193523
	37.5	110302163024	110302193524
SWAGE threaded terminal (WIRE)		904030116	904030119
STA-LOK® threaded terminal (WIRE)		904030216	904030219
ROD BAMAR threaded terminal	904030359	904030360	904030360
ROD NAVTEC threaded terminal	904030459	904030460	904030460
ROD OYS threaded terminal	904030559	904030560	904030560
ROD BSI threaded terminal	904030659	904030660	904030660

B52		GFI 25		
Foil section		BMG70	BMG80	BMG90
(1x19) stay ø mm		22	26	26
ROD #	-60	-76	-76	-91
Length	m			
	27.0	110303223516	110303264008	110303264508
	28.5	110303223517		
	30.0	110303223518	110303264009	110303264509
	33.0	110303223520	110303264010	110303264510
	36.0	110303223522	110303264011	110303264511
	39.0		110303264012	110303264512
	42.0		110303264013	110303264513
SWAGE threaded terminal (WIRE)	904050122	904050126	904050126	904050126
STA-LOK® threaded terminal (WIRE)	904050222	904050226	904050226	904050226
ROD BAMAR threaded terminal	904050361	904050362	904050362	904050364
ROD NAVTEC threaded terminal	904050461	904050462	904050462	904050464
ROD OYS threaded terminal	904050561	904050562	904050562	904050564
ROD BSI threaded terminal	904050661	904050662	904050662	904050664

B53		GFI 35			
Foil section		BMG110			
(1x19) stay ø mm		28	32		
ROD #	-91	-115	-150		-170
Length	m				
	42.0	110304285513	110304325513	110304675513	
	45.0	110304285514	110304325514		
SWAGE threaded terminal (WIRE)		904070128	904070132		
ROD BAMAR threaded terminal	904070364	904070365	904070366	904070367	
ROD NAVTEC threaded terminal	904070464	904070465	904070466	904070467	
ROD OYS threaded terminal	904070564	904070565	904070566	904070567	
ROD BSI threaded terminal	904070664	904070665	904070666	904070667	

B54		GFI 50		
Foil section		BMG 110	BMG 125	BMG 125
(1x19) stay ø mm				
ROD #	-170		-260	-320
Length	m			
	45.0	su richiesta	su richiesta	su richiesta
	55.0			
	60.0			

B55		GFI 70	
Foil section		BMG 125	BMG 185
(1x19) stay ø mm			
ROD #	-320	-360	-430
Length	m		
	55.0	upon demand	
	60.0		upon demand
	70.0		110307738025

(B56) HYDRAULIC CYLINDER FOR "GFI"

The basic hydraulic furler is supplied with a manual turnbuckle. As an option, we offer the hydraulic cylinder to be integrated to the motorization.

Model	Max ROD #	Stroke mm	Code
GFI 12	-40	100	901102705
GFI 16	-48	100	901102706
GFI 25	-91	150	901102707
GFI 35	-150	150	901102708
GFI 35	-150	300	901102709
GFI 35	-170	150	901102714