

Hasler Vane Gear

Publication V1SP

# SP

Small pendulum-servo gear  
for yachts up to 9m (30ft) aprox.

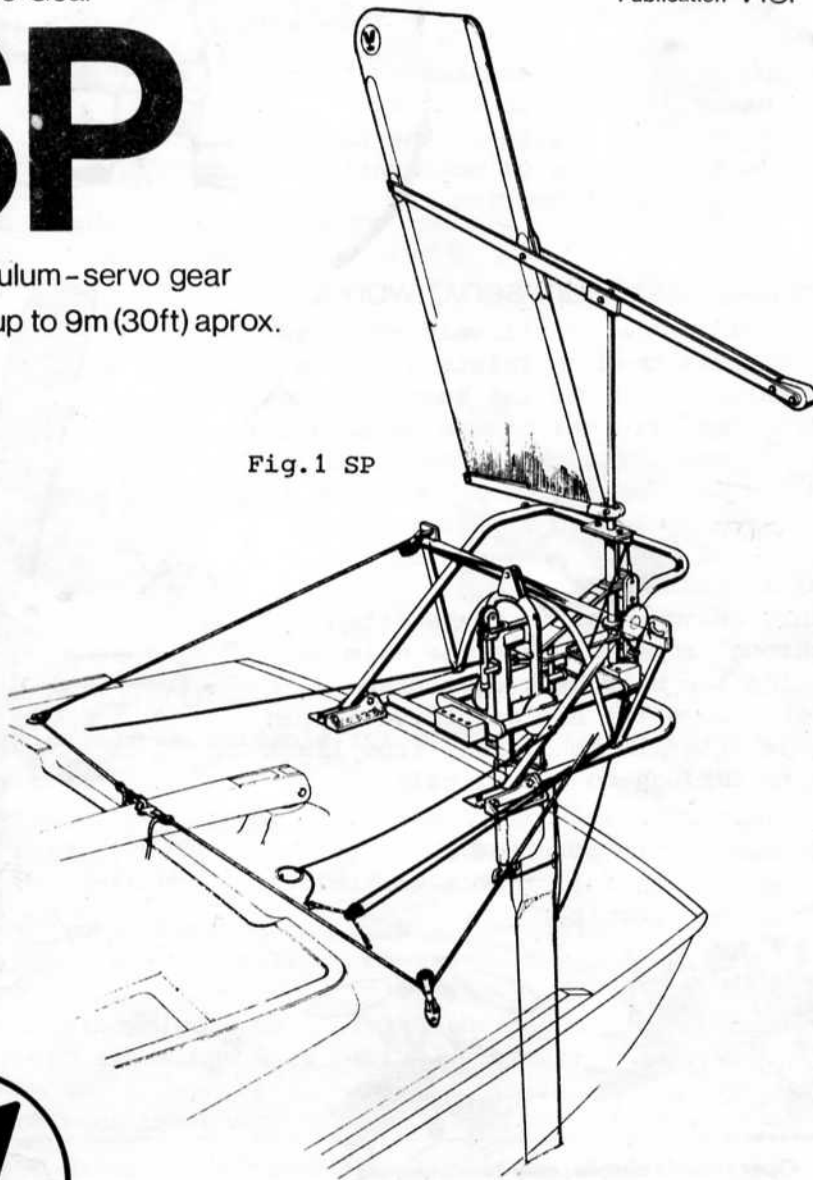


Fig.1 SP



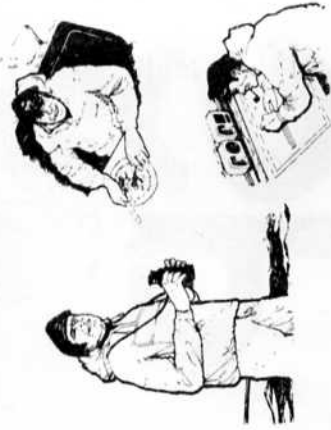
Manufactured by

**M.S. GIBB Limited**

**Warsash, Southampton SO3 6ZG, England.**

**Tel : Locksheath (04895) 5141**

A Hasler Vane Gear can open up a whole new dimension of coastal cruising or offshore passages. As well as removing the effort of long periods at the helm it enables the lone watchkeeper to maintain a better lookout and make frequent visits to the chart table to navigate or make sail changes without heaving to.



### How a pendulum servo works

The wind vane sensitively monitors the boats heading relative to the apparent wind. If the boat deviates from the original course setting, the wind vane turns the servo blade like a rudder. The angled servo blade is powerfully forced sideways like a pendulum by the pressure of the water passing it.

This servo power is transmitted through ropes to move the helm to bring the boat back on course. Being powerful and sensitive it can cope with all conditions from light airs through to a full gale.

It has a worm adjusted latch gear coupled with full remote control from the cockpit.



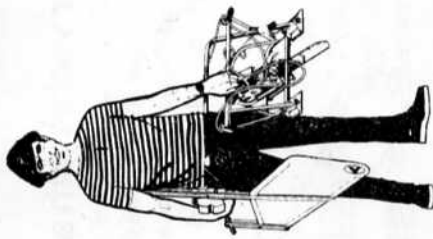
change heading

latch in - latch out

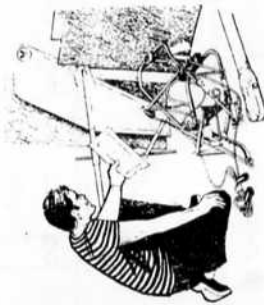
**Operation is simple, only two controls**

An automatic tripping device allows the servo blade to kick up should it hit any obstruction. The blade can be instantly pulled forward again into its operating position by manually re-engaging the tripping lever. This system also facilitates removing and replacing the servo blade.

**Light and portable** the SP Gear can quickly be shipped or unshipped either at sea or in harbour. If necessary it can be left ashore when the boat is racing.



Supplied complete except for fastenings. The gear can be fitted by anyone with a handyman's ability.



### Will the SP fit my boat?

The SP Vane gear is suitable for most average displacement boats up to 9m (30ft) LOA.

It is difficult to establish an exact top limit of boat size because this depends on many factors such as helm loadings, coastal or ocean use, freeboard, etc.

EG. Most light displacement yachts 10m (33ft) LOA mono or multihulls which are light on the helm can be steered by the SP gear.

A heavy displacement 8.5m (28ft) LOA boat, heavy on the helm making ocean crossings will probably require an MP Gear.

The SP has been used very successfully on boats such as:

Arpege, Centaur, Contessa 26, Eventide, Folkboat, Kingfisher 20+, 26, and 30, Sabre, Twister, and Vega.

Other Hasler Vane Gear publications if you need them:

MP Medium Pendulum Servo	- 8m (26ft) - 15m (50ft) LOA
BP Large "	- 14m (46ft) - and above
Trim Tab Servo	- Boats with outboard rudders.

**For yachts with an inboard rudder stock** (Fig.2 SP) no modifications are normally necessary other than fastening down the two baseplates with suitable bolts, providing anchorages for the forward steering blocks, siting the remote control lines and fitting one eye plate to the tiller.

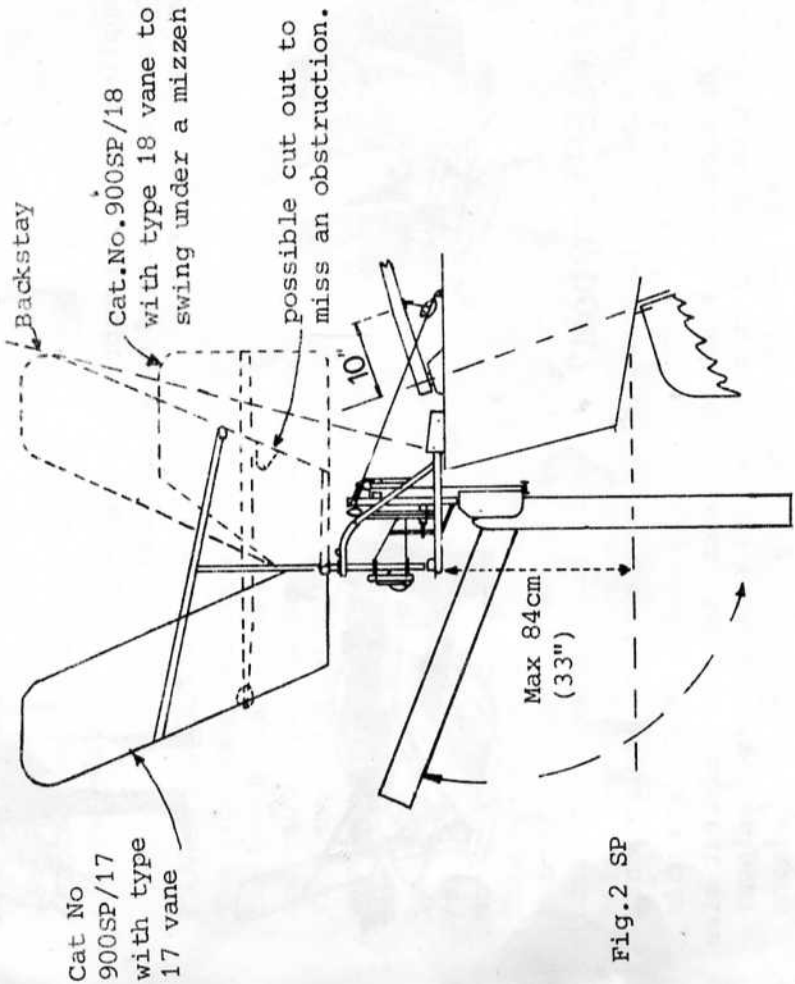
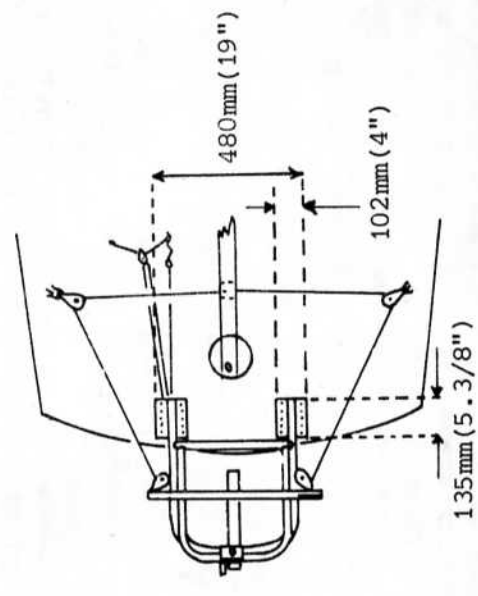
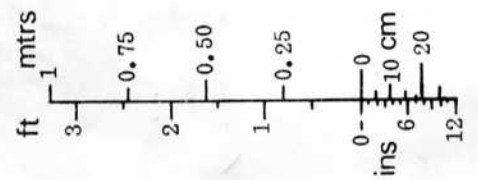


Fig.2 SP



**For yachts with an outboard rudder** (fig. 3SP) It is normally only necessary in addition to fit timber stub bumpkins to support the vane gear aft of the rudder head.

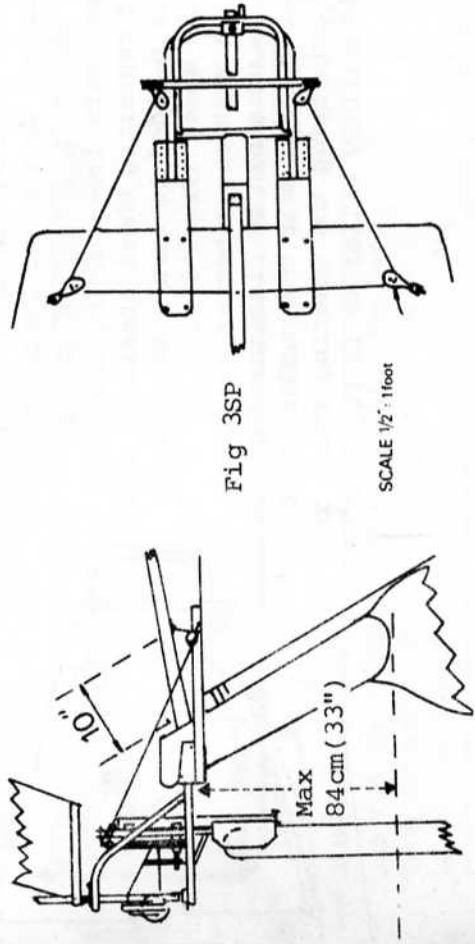
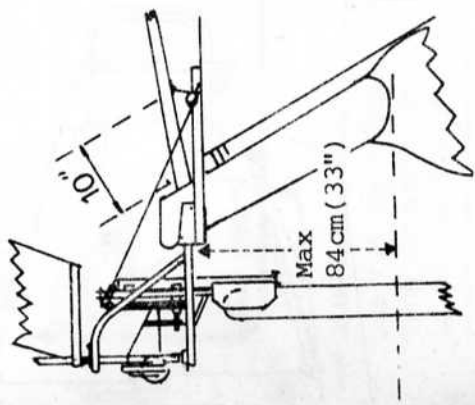


Fig 3SP

SCALE 1/2" = 1foot



**Multihulls** On catamarans the SP unit may be mounted on the after end of the bridge deck, and on trimarans on the main hull.

**Optional extras may be necessary** to complete the installation on your boat as follows:

**Low level tiller 1:2 purchase kit** Cat No 899SP. Comprising: 6m(20ft) of rope and two special blocks for yachts which have a tiller rising from the cockpit sole where the steering ropes can only conveniently be connected at 50cm(20") from the rudder axis (fig.4SP)

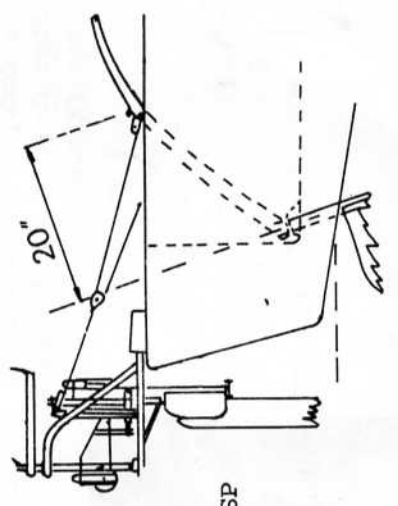


Fig.4SP

