

### INSTRUCTIONS

# FLY™ BLOCK

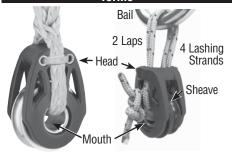
**USA – Tel:** (+01) 262-691-3320 • **Web:** <u>www.harken.com</u> • **Email:** harken@harken.com **Italy – Tel:** (+39) 031.3523511 • **Web:** <u>www.harken.it</u> • **Email:** techservice@harken.it

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WARNING! Strictly follow all instructions to avoid an accident, damage to your vessel, personal injury or death. See <a href="www.harken.com/manuals">www.harken.com/manuals</a> for additional safety information.

Specifications									
Part		Sheave	Max sheet line Ø		Max working load		Breaking load		Replacement
No.	Description	Ø	mm	in	kg	lb	kg	lb	Lashing Line
2698	18 mm single	18 mm	5	3/16	125	275	450	992	HCP1438
2158	18 mm double	18 mm	5	3/16	204	450	680	1500	HCP1438
2161	18 mm single/narrow	18 mm	5	3/16	125	275	450	992	HCP1438
2171	29 mm single	29 mm	7	9/32	350	770	700	1540	Line not included
2173	40 mm single	40 mm	9	11/32	650	1435	1300	2870	Line not included

### **Terms**



# Planning Installation



CAUTION! Avoid injury or damage to equipment. Follow these precautions:

1. Lash only to objects with rounded edges. Avoid sharp corners.





2. Always lash to mouth of the block. Head is not strong enough to secure line.











The 18 mm blocks ship with lashing line. Use two laps of supplied line to create four strands to match the maximum working load of the block.





**4. Blocks 2161, 2171, 2173:** Use sailmaker's twine or similar to secure lashing strands to head. **Blocks 2171, 2173:** Use tubes at head to secure lashing strands to head.





## **Tying Knots**

See www.harken.com/knots. Alternatively, consult a good knot tying book or consult a rigger.

# Lashing at 0° - Block and Bail In-line

Run line through mouth, through head, around bail, and down on other side. Repeat so there are two laps.





**Blocks 2161, 2171, 2173:** Use needle and sailmaker's twine or similar to secure lashing strands to head.



Tie ends using a Carrick knot or other secure knot. Photo is not intended to teach this knot. Consult knot tying book or see www.harken.com/knots.





Do not tie square knot or "granny knot". These can loosen.



# Lashing at 90° - Block 90° to Bail

Run line through mouth, head, around bail, and back on the **same** side. Run line from mouth through head, around bail, and back on the **other** side for a second lap. Secure with Carrick knot or other secure knot. Consult knot tying book or see www.harken.com/knots.







Blocks 2161, 2171, 2173: Use sailmaker's twine or similar to secure lashing strands to



## **Becket Options**

#### Using Lashing Line as Becket

Starting through mouth, run line through head, around bail, through head, and through mouth. Loop line once below block. Loop line a second time forming a becket. Run line through head, around bail, and through mouth. Secure using Carrick knot or other secure knot. Consult knot tying book or see www.harken.com/knots.

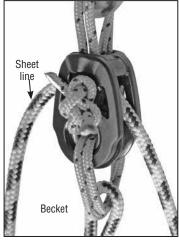
Blocks 2161, 2171, 2173: Use sailmaker's twine or similar to secure lashing strands to head.











Lashing line used as becket - rigged with sheet.



Securing Sheet Directly to Mouth as Becket Pass sheet through mouth and secure with bowline, splice, or whip line to itself. Consult knot tying book or see www.harken.com/knots.

### Using Sheet as Lashing and Becket

Do not use HCP1438 line supplied with 18 mm Fly block. Use a larger, stronger line that exceeds the block's breaking load to account for loss of strength due to weakness of knots, UV damage or chafing. Run sheet through mouth, head, around bail, and back through head. Leave tail below for tying or whipping to long section of line. Run line back through mouth and secure to long section of line. Use bowline knot or whip lines together.

Blocks 2161, 2171, 2173: Use sailmaker's twine or similar to secure lashing strands to head.







## Securing Block to End of Larger Line

Do not use supplied HCP1438 line. Use a larger, stronger line that exceeds the block's breaking load to account for loss of strength due to weakness of knots, UV damage or chafing. Run line through head, through mouth, and out head. Secure with a bowline with end whipped to loop so it stays secure. Consult knot tying book or see www.harken.com/knots.







## Securing Block to Large Diameter Object

When running line around large-diameter object such as a boom, cross line each time you pass around the object. **Blocks 2161, 2171, 2173:** Use sailmaker's twine or similar to secure lashing strands to head. Use sailmaker's twine or similar to hold lashing strands crossed as shown below.

Important! If lashing line is pushing outwards on head, it can break the block. Check to make sure each lap crosses separately as shown in the photo at left below.







## **Inspect Line Every Time You Sail**

Inspect lashing line for chafe or UV damage every time you sail. *Replace damaged line immediately. Replace line with no visible damage every two-years.* Use Harken replacement line, but if using own line, see "Using Alternate Line, Knots and Splices" and chart on back page for important information to help you select the correct line.



### Maintenance

Harken equipment is designed for minimal maintenance. However, some upkeep is required to give the best service and comply with the Harken limited warranty.

Keep your equipment clean and free-running by frequently flushing with fresh water. Periodically clean with mild detergent and water solution. Spin sheaves to distribute soap solution evenly. Flush with fresh water.

IMPORTANT! Exposure to some teak cleaners and other caustic solutions can result in discoloration of part and is not covered under the Harken warranty.

## Warranty

For additional safety, maintenance and warranty information see www.harken.com/manuals or the Harken catalog.