

# HARKEN®

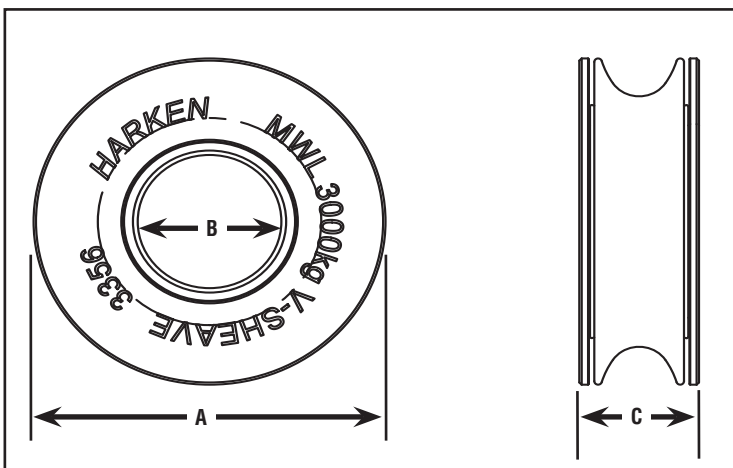
## INSTRUCTIONS

### V™ Sheaves

N15W24983 Bluemound Road • Pewaukee, WI 53072 U.S.A.  
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**WARNING!** Strictly follow all instructions to avoid an accident, damage to your vessel, personal injury or death. See [www.harken.com/manuals](http://www.harken.com/manuals) for additional safety information.

V sheaves mount into spar or deck sheave boxes. The bearing system combines axial and thrust bearings into a single bearing set of angled titanium rollers.



### Specifications

Part No.	Description	A - Sheave Ø		B - Center Ø		C - Sheave Width		Max line Ø		Maximum working load		Breaking load	
		mm	in	mm	in	mm	in	mm	in	kg	lb	kg	lb
3355	1.5T	47	1.85	15.9	0.626	18.8	0.74	9	11/32	1500	3300	3000	6600
3356	3T	56	2.20	22.86	0.9	19	0.75	11	7/16	3000	6600	6000	13200
3358	3T Wide	56	2.20	15.9	0.626	30	1.18	2X 11mm	2X 7/16"	3000	6600	6000	13200
3357	5T	62	2.44	22.86	0.9	23.9	0.941	13	1/2	5000	11000	10000	22000

### Sizing Sheave and Center Pin

Do not exceed maximum working loads. Loads increase when the line turns at a greater angle. Example: Sheave loads double when the line turns 180 degrees. Refer to block loading formulas in Harken catalog. Center pin not included.

### Sheave Box Dimensions

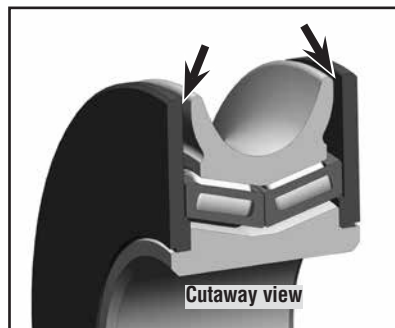
The supporting sides (A) of the sheave box should be .75mm larger than (B) the sheave width +/- .25mm.

A is .75mm +/- .25mm greater than B



### Short Term Maintenance

Flush sheave bearings with detergent and fresh water. Flush areas shown while rotating sheave.



## Annual Inspection and Maintenance

Disassemble sheave to inspect and service. Gently pry off plastic sideplates. Refer to exploded view below for disassembly. **IMPORTANT! Do not force bearing cage.** Remove rollers for cleaning or replacement by pushing outward. Install from outside pushing in.

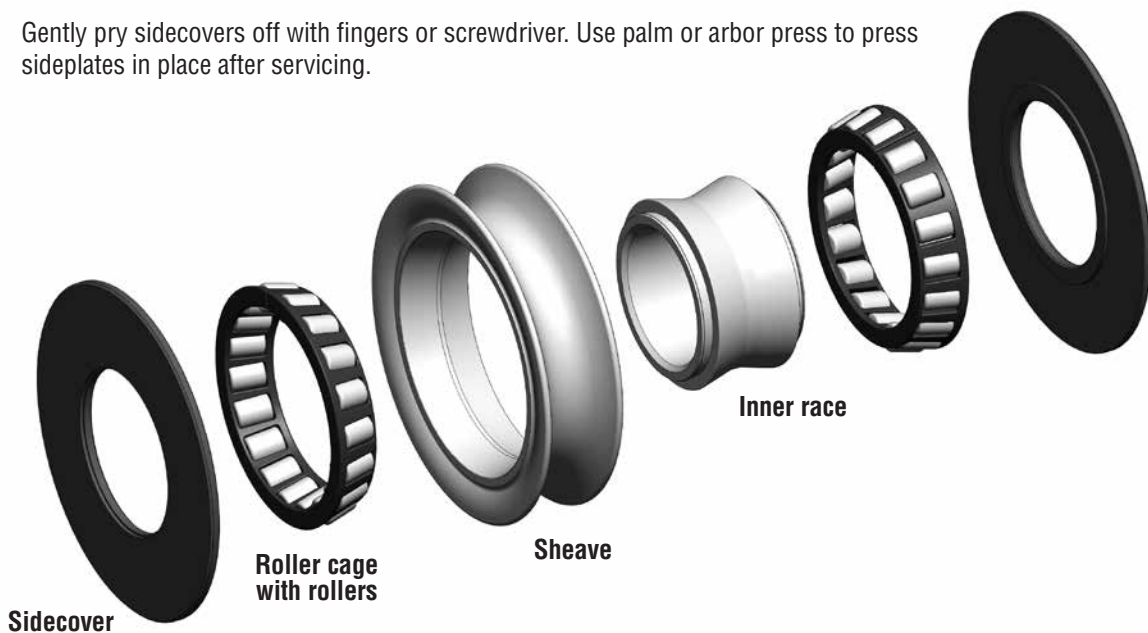


Flush parts with detergent and fresh water. Clean and remove grease using solvent. Lightly grease inner ring of sheave as shown at right.



## Assembly Notes and Reorder Parts

Gently pry sidecovers off with fingers or screwdriver. Use palm or arbor press to press sideplates in place after servicing.



### V-Sheave replacement part numbers

Part No.	Description.	Side cover	Qty	Roller	Qty	Roller cage	Sheave	Inner race
3355	1.5T	H-77970	2	MS-525	30	H-73941	MS-524	MS-556
3356	3T	H-77965	2	MS-525	36	H-73780	MS-531	MS-557
3358	3T Wide Tulip	H-77965	2	MS-525	36	H-73780	MS-544	MS-558
3357	5T	H-77652	2	MS-535	38	H-73939	MS-528	MS-559

## General Maintenance

Harken equipment requires minimal maintenance, but some maintenance is required to give the best service and to comply with Harken's limited warranty.

It is important to keep equipment clean by frequent flushing with fresh water. In corrosive atmospheres, stainless parts can show discoloration around holes, rivets,

and screws. This is not serious and can be removed with a fine abrasive. Flush blocks thoroughly with fresh water. Periodically, disassemble the blocks and clean with detergent and 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; [www.harken.com/manuals](http://www.harken.com/manuals) or the Harken catalog.