

# HYDRAULIC CYLINDERS



Backstay tensioners

Control panels

## Hydraulic adjusters and vang

Fast and convenient adjustment of the backstay and the vang is vital both for the racing sailor and for the cruising sailor. Being able to tension the forestay, adjust the pre-bend of the mast and control the power in the mainsail will make any boat point higher, sail faster and under better control. Seldén has developed a range of hydraulic cylinders based on functional design, ease of use, reliability and long service life. The rods are marine grade stainless steel and the cylinders black anodized or clear anodized aluminium. The tensioners have long stroke making it possible to try out different mast rakes.

### Hydraulic Tensioners Integral (HTI)

#### Hydraulic Tensioners (HT) for Seldén control panels

- A 2-speed function permits fast tensioning until a pre-set pressure is obtained. Then the tensioner shifts down to low speed and reduced resistance in the handle. The level of pressure needed to gear down is easily adjusted to suit the individual trimmer.
- Available for Ø8 – 14 mm backstay wires (equals -17 to -40 rod).
- HTI: The gauge is at the top of the tensioner making it easy to check the achieved pressure (bar).
- Releasing the pressure is done by twisting the control of the release valve.
- An adjustable relief valve prevents overload.



- *Maximum pump pressure adjustment.*
- *Pressure release valve.*



- *Adjustment of pressure level for downshift from high to low speed.*



Hydraulic Tensioners  
Integral (HTI)

Hydraulic Tensioners (HT)  
for Seldén control panels

## Hydraulic Backstay Tensioners

Art. No.	Tensioner	Anodization	Max wire size, Ø mm (rod size)	Max pulling force at 5000 psi, kN	Max working pressure, bar	Stroke, mm	Contracted length, mm	Lower pin diameter, Ø mm	Cylinder dia, Ø mm	Piston rod thread	Weight, kg	2-speed function	Dual Action										
580-001-10	HTI-W8/10 Backstay tensioner with integral pump	Clear	10 (-17)	44	345	420	1028	15.8*	62	UNF 5/8" - 18 Left hand	8.1	Yes	No										
580-002-10		Black																					
580-003-10	HT-W8/10 Backstay adjuster for control panel	Clear												826	4.3	Yes							
580-004-10		Black																					
580-005-10	HTI-W12/14 Backstay adjuster. integral pump	Clear					14 (-40)				85		345	480	1156	22	80	UNF 7/8" - 14 Left hand	13	No			
580-006-10		Black																					
580-007-10	HT-W12/14 Backstay adjuster for control panel	Clear																			912	8	Yes
580-008-10		Black																					

\* When W8/10 is used on a Ø7 mm backstay with Ø13 mm hole dia, toggle 174-107-01 + conversion kit 306-558-03 is required.

## Upper terminals

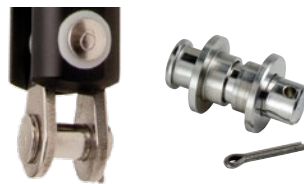
Tensioner	Fork		Upper pin diameter, Ø mm	Rigging screw body and split pin	
	Anodization	Art. No.			Art. No.
HTI-W8/10 HT-W8/10	Clear	581-400-01	15.8*	5/8"	174-326-99
	Black	581-401-01			
HTI-W12/14 HT-W12/14	Clear	581-402-01	22	7/8"	174-328-99
		581-412-01 (for -22 rod)	19		
	Black	581-403-01	22		
		581-413-01 (for -22 rod)	19		

\* When W8/10 is used on a Ø7 mm backstay with Ø13 mm hole dia, a conversion kit with bushings and a Ø12 mm clevis pin is required. Art. no. 306-558-04.



## Toggle

Tensioner	Art. No.	Lower pin diameter, Ø mm
HTI-W8/10 HT-W8/10	174-107-01	15.8*
HTI-W12/14 HT-W12/14	174-135-01	22
	174-134-01 (for -22 rod)	19



Art. No. 306-558-04/04

\* If the chain plate have a Ø13 mm hole dia, a conversion kit with bushings and a Ø12 mm clevis pin is required. Art. No. 306-558-03.



Hydraulic boom vang (HV)

## Hydraulic boom vang (HV)

Art. No.	Description	Anodization	Max pulling force at 5000 psi, kN	Max working pressure, bar	Maximum return force, kN	Stroke, mm	PCLC (Pin Center Length Closed), mm	Pin diameter, Ø mm	Cylinder dia, Ø mm	Weight, kg	2-speed function	Dual Action
580-013-10	HV-44 Boom vang	Clear	44.2		8.4	280	2700	15.8	70	12		
580-014-10		Black										
580-015-10	HV-57 Boom vang	Clear	56.7		12	280	2950	19	80	15.8		
580-016-10		Black										

## Control panels

- Available for single function or 4-functions.
- The panels have a Dual Action function which means the pump is active both when pushing and when pulling the handle.
- An adjustable relief valve prevents overload.
- A 2-speed function permits fast tensioning until a pre-set pressure is obtained. Then the panel shifts down to low speed and reduced resistance in the handle. The level of pressure needed to gear down is easily adjusted to suit the individual trimmer.
- The panels can be connected to an electric pump station that replaces manual pumping with the push of a button.
- The panels are black anodized or clear anodized aluminium.



Control panel, 1-function



Control panel, 4-function

## Control panels

Art. No.	Number of functions	Anodization	2-speed function	Dual Action
586-500-10	1	Clear	Yes	Yes
586-501-10		Black		
586-500-14	4	Clear		
586-501-14		Black		



Pump handle, Art. No. 587-101 stainless steel, Ø20 x 500 mm



Oil reservoir, Art. No. 585-300-01



Electric pump, Art. No. 587-800-01

