

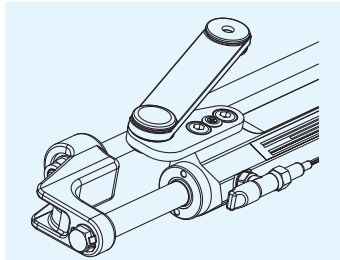
**UC128-OBF**  
**FRONT**  
**MOUNT**  
**CYLINDER**



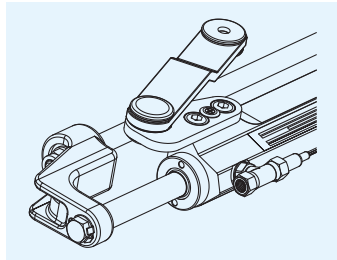
UC128-OBF - Balanced: the number of turns lock-to-lock is equal port to starboard or vice-versa

**Adjustable boss style fittings for easy and leak free installation**  
**High resistance stainless steel connection bolt (ULTRABOLT)**

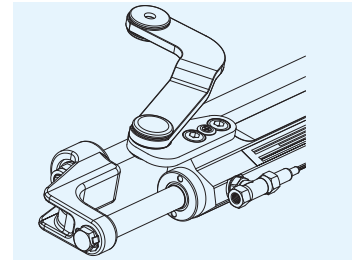
Compatible with competing helms, hoses and oil, the UC128 cylinder is built to last with heavy duty stainless steel cylinder rod, seals and link assemblies. Constructed of top grade materials this cylinder is simple to install and fits almost every two and four stroke outboard engine in the market. See the application guide next page to choose the appropriate cylinder (UC128-OBF/1, UC128-OBF/2 or UC128-OBF/3) for your application. The UC128 cylinders are recommended for use with UP25, UP28, UP33 and UP39 series helms and preassembled hoses (Kit OB and Kit OB-BHBR). Depending on the applications on the outboard engines, the UC128-OBF is available in 3 versions:



UC128-OBF/1 39423 Z



UC128-OBF/2 39966 R

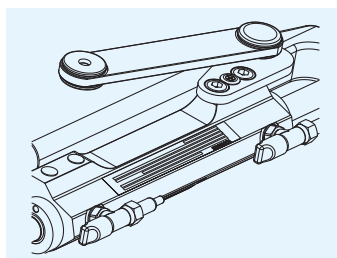


UC128-OBF/3 39967 T

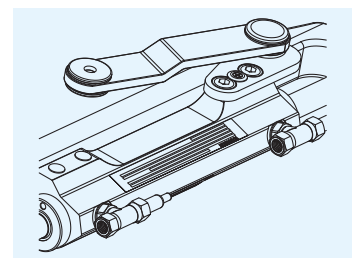
In the applications with dual UC128-OBF cylinder it is necessary to order a standard UC128-OBF cylinder (link arm attached to the starboard side of the cylinder) and a port UC128P-OBF cylinder (link arm attached to the port side of the cylinder). See appropriate section for A90 tie bar required for use on dual engine/dual cylinder applications. Depending on the applications on the outboard engines, the UC128P-OBF port cylinder is available in 2 versions:



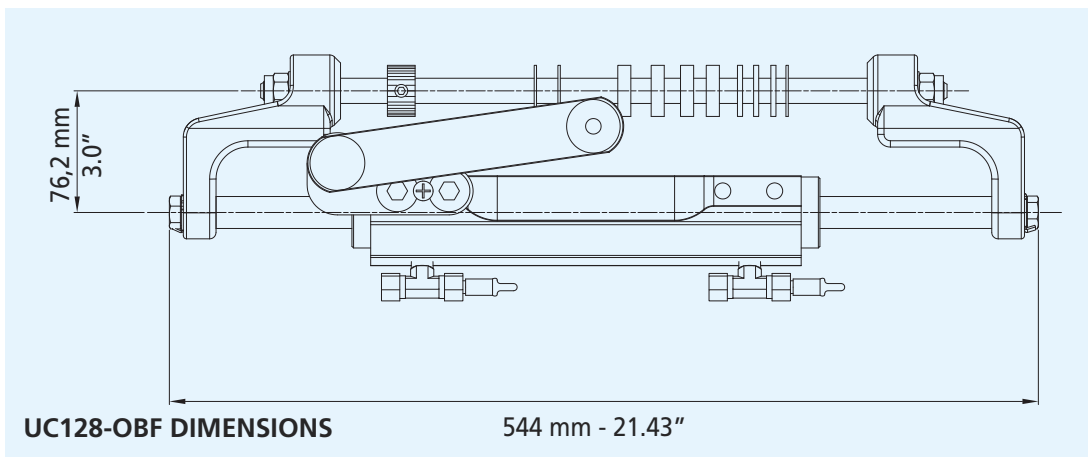
UC128P-OBF



UC128P-OBF/1 40106 U



UC128P-OBF/2 40107 W

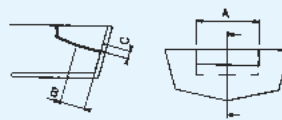




**UC128-OBF  
FRONT  
MOUNT  
CYLINDER**

SPECIFICATIONS	UC128-OBF/1 -/2 -/3
Volume	120 cc - 7.3 cu. in
Output force	450 kg - 992 lbs
Inside diameter	35 mm - 1.37"
Stroke	185 mm - 7.28"
3/8" (9,5 mm) Fittings	For high pressure flex hose
Bleed fittings	DN5 Quick connect

SPLASHWELL DIMENSION REQUIREMENTS			
Engine No.	A	B	C
1	560 mm - 22.05"	152 mm - 5.98"	152 mm - 5.98"
2	1110 mm - 43.70"	152 mm - 5.98"	152 mm - 5.98"



For twin engine applications minimum engine center distance is 21.6" (550 mm)


**UC128-OBF  
CYLINDER  
APPLICATIONS**

ENGINE	MODEL	YEAR	CILINDER	P. NO.	PACKAGED
Mercury® Mariner®	75-90-115-125 Optimax 2 Stroke	2004-to date	UC128-OBF/3	39967 T	PROTECH 3
	135-150-175 Optimax 2 Stroke	1999-to date	UC128-OBF/1	39423 Z	PROTECH 1
	200-225-250 Optimax 2 Stroke	1999-to date	UC128-OBF/1	39423 Z	PROTECH 1
	RACING 300 Optimax 2 Stroke	1999-2011	UC128-OBF/1	39423 Z	PROTECH 1
	100-115 EFI 4 Stroke	2007-to date	UC128-OBF/1	39423 Z	PROTECH 1
	115-125-150 EFI 2 Stroke	1990-2007	UC128-OBF/1	39423 Z	PROTECH 1
	225-250 EFI 2 Stroke	2000-2007	UC128-OBF/1	39423 Z	PROTECH 1
	250 Saltwater EFI 4 Stroke	2007-2011	UC128-OBF/1	39423 Z	PROTECH 1
	135 Verado L4 4 Stroke	2004-2006	UC128-OBF/1	39423 Z	PROTECH 1
	150-175-200 Verado L4 4 Stroke	2004-to date	UC128-OBF/1	39423 Z	PROTECH 1
Evinrude®	E75-E90 2 Stroke	2004-to date	UC128-OBF/2	39966 R	PROTECH 2
	E115-E130-E135 2 Stroke V4	1995-to date	UC128-OBF/2	39966 R	PROTECH 2
	E150-E175-E200 2 Stroke V6	1995-to date	UC128-OBF/2	39966 R	PROTECH 2
	E200 HO- E225-E250 2 Stroke V6	1995-to date	UC128-OBF/2	39966 R	PROTECH 2
	E250 HO- E300 2 Stroke V6	1995-to date	UC128-OBF/2	39966 R	PROTECH 2
Yamaha®	75C-90 2 Stroke	1998-2008	UC128-OBF/2	39966 R	PROTECH 2
	115C-130B 2 Stroke	1990-2008	UC128-OBF/2	39966 R	PROTECH 2
	150F-200F-250G 2 Stroke	1996-2007	UC128-OBF/2	39966 R	PROTECH 2
	150 HPDI VMAX 2 Stroke	2000-2008	UC128-OBF/2	39966 R	PROTECH 2
	175-200-225-250-300 HPDI VMAX 2 St.	2000-2008	UC128-OBF/2	39966 R	PROTECH 2
	F70 4 Stroke	2010-to date	UC128P-OBF/1	40106U	-
	F90-F100-F115-F150 EFI 4 Stroke	1999-2007	UC128-OBF/1	39423 Z	PROTECH 1
	F200-F225-F250 4 Stroke	2002-2007	UC128-OBF/2	39966 R	PROTECH 2
	F115-F150	2004-to date	UC128-OBF/1	39423 Z	PROTECH 1
	F200-F225-F250-F300 4 Stroke	2006-to date	UC128-OBF/1	39966 R	PROTECH 1
F350 4 Stroke	2008-to date	see UC128-SVS	SilverSteer	-	
Honda®	BF75-90 4 Stroke	1995-to date	UC128-OBF/1	39423 Z	PROTECH 1
	BF115D	1998-2009	UC128-OBF/3	39967 T	PROTECH 3
	BF115A	2009-to date	UC128-OBF/1	39423 Z	PROTECH 1
	BF130A	1998-2005	UC128-OBF/3	39967 T	PROTECH 3
	BF135-150 4 Stroke	2005-to date	UC128-OBF/1	39423 Z	PROTECH 1
	BF90-BF150 V-TEC 4 Stroke	2008-to date	UC128-OBF/1	39423 Z	PROTECH 1
BF175-200-225 4 Stroke	2001-to date	UC128-OBF/1	39423 Z	PROTECH 1	
Suzuki®	DF70-80-90 4 Stroke	1998-to date	UC128-OBF/2	39966 R	PROTECH 2
	DF100-115-140 4 Stroke	1998-2008	UC128-OBF/1*	39423 Z	PROTECH 1
	DF100-115-140 4 Stroke new model	2008-to date	UC128-OBF/1	39423 Z	PROTECH 1
	DF150-175 4 Stroke	2006-to date	UC128-OBF/1	39423 Z	PROTECH 1
	DF200-DF225-DF250-DF300	2006-to date	UC128-OBF/2	39966 R	PROTECH 2
Tohatsu®	115-120-140 2 Stroke	2004-to date	UC128-OBF/2	39966 R	PROTECH 2
	70-90-115 TLDI 4 Stroke	2004-to date	UC128-OBF/1	39423 Z	PROTECH 1
Selva®	80 Portofino/Tigershark 2 Stroke	1995-to date	UC128-OBF/1	39423 Z	PROTECH 1
	150 White Shark 2 Stroke	2001-2007	UC128-OBF/2	39966 R	PROTECH 2
	100EFI Marlin -115 EFI Narwhal-150EFI Killer Whale 4 Stroke	2000-to date	UC128-OBF/1	39423 Z	PROTECH 1
Johnson®	BJ90-115-140 4 Stroke	2001-2007	UC128-OBF/1	39423 Z	PROTECH 1
	J90-115 V4 2 Stroke	1995-2007	UC128-OBF/2	39966 R	PROTECH 2
	J150-175 V6 2 Stroke	1995-2007	UC128-OBF/2	39966 R	PROTECH 2
	J200-225 V6 4 Stroke	2004-2007	UC128-OBF/2	39966 R	PROTECH 2

For higher horsepower applications, high performance SilverSteer™ cylinder is recommended.

**UC128-OBF  
CYLINDER**

**ORDER GUIDE:**

SYSTEM	APPLICATION	WHEEL TURNS	COMPONENTS	MODEL	QTY
<b>Single engine Single cylinder</b>  	Up to 300 hp max	4.8 (UP25)	Cylinder Helm pump Hose Kit	UC128-OBF UP25 or UP28 KIT OB	1 1 1
		4,3 (UP28)	Oil Steering wheel	OIL 15 (Wheel selection)	2 1


For a second station add:  
1 UP25 or UP28 helm pump, 1 KIT OB-2S fitting kit, 1 KIT OB, 1 OIL 15, 1 steering wheel

**WARNING**


The UC128-OBF front mount cylinder is not recommended for use in installations where the boat speed exceeds **57.5 mph (50 knots)** (69 mph (60 knots) in dual engine, dual cylinder and counter rotating engines application). Not intended for use in racing applications.

**NOTE:**

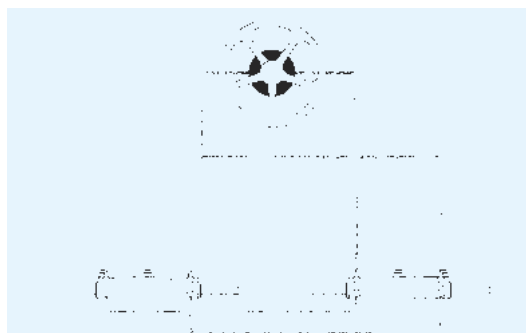
For high performance applications SilverSteer™ systems are recommended.

<b>Dual engine Single cylinder</b>  	Up to 300 hp max (non-counter rotating engine)	4.8 (UP25)	Cylinder Helm pump Hose Kit	UC128-OBF UP25 or UP28 KIT OB	1 1 1
		4.3 (UP28)	Oil Tie bar Steering wheel	OIL 15 A94 (Wheel selection)	2 1 1

For a second station add:  
1 UP25 or UP28 helm pump, 1 KIT OB-2S fitting kit, 1 KIT OB, 1 OIL 15, 1 steering wheel

<b>Dual engine Dual cylinder</b>  	Up to 500 hp max (non-counter rotating engines)	6.1 (UP39)	Cylinder Cylinder Port Helm pump Hose Kit	UC128-OBF UC128P-OBF UP39 or UP45 KIT OB	1 1 1 1
		5.3 (UP45)	Oil Tie bar Steering wheel Connection Kit	OIL 15 A90 (Wheel selection) KIT OB-DBR	3 1 1 1

For a second station add:  
1 UP39 or UP45 helm pump, 1 KIT OB-2S fitting kit, 1 KIT OB, 2 T fittings 39502 V, 1 OIL 15, 1 steering wheel



Dual engine dual cylinder application diagram



**WARNING**

These steering systems can only be used when the engine is in compliance with the approved U.S. Coast Guard vessel horsepower rating. When installing UC128-OBF cylinder in conjunction with an **ENGINE JACK PLATE** trim system, a manual clearance check must be made in all moveable positions. Failure to comply with the installation manual for engine application, cylinder/hose clearance, and approved hydraulic fluids, may result in loss of steering, causing serious property damage and / or personal injury.

**NOTE:**

Three outboard engine applications are available with UC128-SVS cylinder. For any further and detailed information, please contact our Technical Service.



For triple outboard engines, dual cylinder applications, please refer to tie-bar section.

