

HYDRODRIVE®



HYDRAULIC STEERING SYSTEMS

- Outboard Systems - Fixed & Slider mount
- Inboard Systems - Shaft Driven Boats
- Racing Steering Systems

2026



About us

Techno Italia is the manufacturer of Hydrodrive® Hydraulic Steering Systems. Our range includes outboard applications up to 400 HP, Inboard applications for boats up to 20 meters (66 feet) and Power Steering applications. We also offer hydraulic steering systems for sailboats, and catamarans. All Hydraulic Steering Systems are design and produce following high technology producing.

Good Things Come in Threes: We are driven by our THREES philosophy, which sets Hydrodrive® Hydraulic Steering Systems apart from the competition:



TECHNOLOGY

Hydrodrive® systems are crafted using advanced technology from the aviation industry.

The pump housing is made from a single block of hardened, hot-pressed aluminum. The 10 mm thickness and special material prevent leakage or oil film/fog formation, even under extremely high working pressures. The three ball bearings in the pump ensure outstanding precision and exceptionally smooth, consistent operation. Each pump housing is anodized and painted to resist the highly corrosive effects of seawater.

The cylinders are also made from cold-drawn, hardened aluminum. The thick-walled cylinders, made of a special raw material with higher tensile strength than traditional brass, tolerate high working pressures. Like the pump housing, all cylinders and parts are anodized for salt corrosion resistance.

HISTORY

The Gobbo family has over 50 years of experience in hydraulic systems. Specializing in hydraulic systems for the aircraft industry, the company has supplied major companies such as Fiat-Avio, Agusta, and Rolls-Royce. This sense of purpose and mission has always been part of the Gobbo family's culture.

RELIABILITY

Reliability stems from quality, and quality is our benchmark. We are so confident in our products that we offer a 3-year warranty. Our data shows that less than 0.1% of Hydrodrive® systems are replaced within the first 3 years, and less than 0.3% within the first 5 years. The average durability of our systems exceeds 8 years without maintenance.

ENVIRONMENTALLY ENGINEERED

Techno Italia's mission is to create sustainable products with minimal environmental impact. Hydrodrive® HSS is designed to be eco-friendly, requiring no refills after the initial filling throughout its lifetime. Our helms and main components are plastic-free and recyclable, contributing to long-term environmental benefits and sustainable business growth.

SIMPLICITY

Simplicity is our mantra. A simpler product is more efficient. All our steering kits come complete with a pump housing, cylinder, oil, and hose set made from twin hydraulic high-pressure tubes with pre-fitted connections. Installation is straightforward: just install the pump and cylinder, attach the hose set, and fill the system. All systems feature fast-fit connections and are compatible with most market applications.

Hydrodrive® Models

Premium hydraulic steering systems for outboard engines up to 175 HP and inboard vessels up to 20 m (66 ft), **backed by a 3-year warranty**. Hydrodrive systems feature built-in overload protection, flexible high-pressure hoses



OUTBOARD

Model:	Max power:	Anti-Feedback Autopilot port:	Fix cylinder:	Slider cylinder: Horns
MF75W	75 HP	–	✓	–
MF115-MRA	120 HP	✓	✓	–
MF175W	175 HP	✓	✓	–
MF175-WTS	175 HP	✓	–	✓
MF350W-SP (Racing system)	350 HP	✓	✓	–
MF255WTS-TDF (for twin engine)	300+300 HP	✓	–	✓

INBOARD

Model:	Max boat length:	Anti-Feedback Autopilot port:	Drive type:
MU50TF	12 m (40 ft)	–	Shaft driven
MU50TF-MRA	12 m (40 ft)	✓	Shaft driven
MU75TF-MRA	14 m (46 ft)	✓	Shaft driven
MU100TF (Sailing boats)	20 m (66 ft)	–	Shaft driven
MU100TF-MRA (Sailing boats)	20 m (66 ft)	✓	Shaft driven

gboSTEER® models

Affordable steering systems for outboard engines up to 300 HP, featuring a slider-cylinder — a compact, smooth-gliding design for precise control. **Supported by a 1-year warranty.**



OUTBOARD

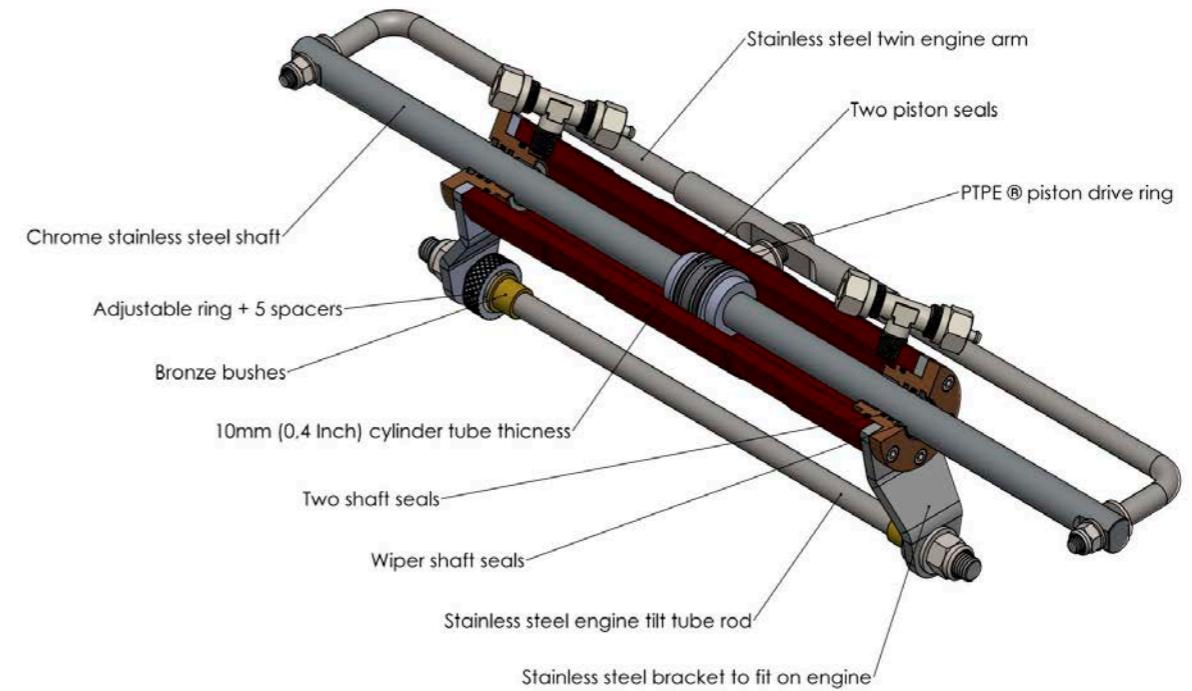
Model:	Max power:	Anti-Feedback Autopilot port::	Fix cylinder:	Slider cylinder: Horns mount
gbo90-WTS	90 HP	✓	–	✓
gbo150-WTS	150 HP	✓	–	✓
gbo200-WTS	200 HP	✓	–	✓
gbo300-WTS	300 HP	✓	–	✓

OUTBOARD SYSTEMS

Hydrodrive® models

Premium hydraulic steering up to 175 HP, with 3-year warranty and full anodized metal construction. Delivers smooth, reliable control with a maintenance-free design. Designed for maximum steering stability at any speed.

Universal Application



Learn more

Key features:

- **Durable Construction:** The pump and cylinder are both made from full block, cold-drawn, hardened aluminum for enhanced strength and longevity.
- **Easy installation:** Kit includes everything needed for the installation
- **Maintenance-Free:** Engineered to require no regular maintenance or oil top-ups.
- **Pre-Installed Fittings:** Comes with pre-installed fittings to simplify the installation process

Difference between Hydrodrive Slider and Fixed Cylinders

Slider Cylinder:

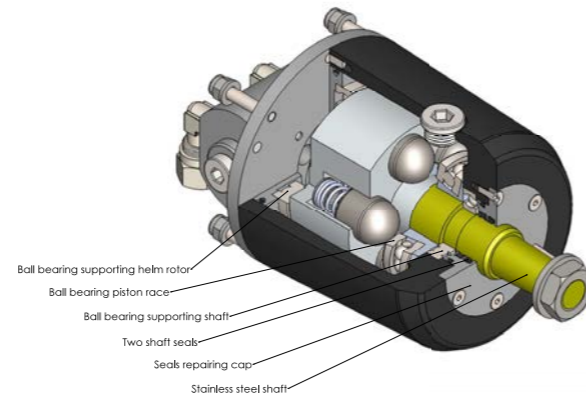
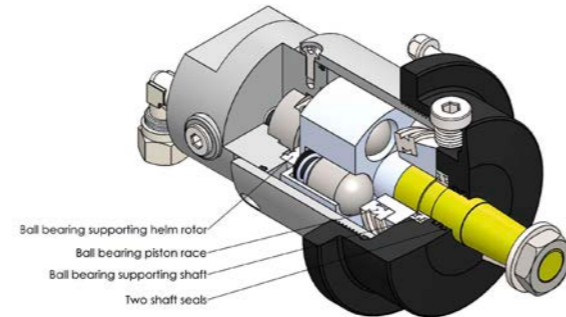
- The cylinder body (housing) moves along the steering rod, allowing the entire assembly to slide in sync with the load.
- Can be more space-efficient, especially in confined areas, since the cylinder moves with the load, potentially reducing the need for long rod extensions. Required space is 540 mm (21")

Fixed Cylinder:

- The cylinder body remains stationary, with only the piston rod extending and retracting
- May require more space for the rod to fully extend, as the cylinder body is stationary. Required space is 720 mm (28")

TOP features of the TL1 and TL2 Hydraulic Pumps

The TL1 and TL2 pumps are equipped with Pro Trim Bezel Switch-Jack plate connection!



- **Stability:** The Anti-Feedback Valve prevents the steering wheel from being affected by external forces, such as waves which could cause it to turn unexpectedly. This feature ensures smoother, more stable steering, providing the customer with greater control and comfort, particularly in challenging conditions.
- The TL2 series not only features a Stainless-Steel shaft but also includes a removable cup, allowing for easy replacement of the shaft seals without opening the pump.
- **Purge-Ready Design:** Equipped with specialized valve fittings, it effortlessly clears air from the system.

Stainless steel pump shaft (3/4") and an M16 x 2 steering wheel lock nut.

MF75W

Steering kit up to 75 HP with BR72 Engine Arm



Performance		
Output force:	220 Kgf	485 lbf
Torque:	46 Kgm	451 Nm
Max Speed:	30 knots	
Turns:	4.4	
Components		
Pump:	TL1-16, 16 cc/rev, max 60 bar	
Cylinder:	MC75W, 68 cc, Stroke 202 mm	
Hose set:	5/16 twin, 4.5+4.5 m (15') W.P.: 120 bar - B.P. 480 bar	
Oil:	1L E-HVLP 46	
Price:		

i Required cylinder space: 720 mm (28")

The MF75W provides precise and reliable hydraulic steering for outboard engines up to 75 HP, ideal for replacing mechanical cable steering systems.

MF175W

Steering System kit up to 175 HP with two-position engine plate.



Performance		
Output force:	290 Kgf	640 lbf
Torque:	60 Kgm	588 Nm
Max Speed:	55 knots	
Turns:	5.4	
Components		
Pump:	TL1-16 MRA, 16 cc/rev, max 80 bar	
Cylinder:	MC175W, 86 cc, Stroke 208 mm	
Hose set:	5/16 twin, 5.5+5.5 m (18') W.P.: 120 bar - B.P. 480 bar	
Oil:	2L E-HVLP 46	
Price:		

i Required cylinder space: 720 mm (28")

with Anti-Feedback Valve and Automatic Pilot connection port

Hydraulic steering system for powerful outboard engines and heavy-duty use, with a standard fixed cylinder.

MF115-MRA

Steering System kit up to 120 HP with BR72 Engine Arm



Performance		
Output force:	236 Kgf	520 lbf
Torque:	50 Kgm	490 Nm
Max Speed:	50 knots	
Turns:	4.5	
Components		
Pump:	TL1-16 MRA, 16 cc/rev, max 80 bar	
Cylinder:	MC115W, 71 cc, Stroke 210 mm	
Hose set:	5/16 twin, 5+5 m (16') W.P.: 120 bar - B.P. 480 bar	
Oil:	1L E-HVLP 46	
Price:		

i Required cylinder space: 720 mm (28")

with Anti-Feedback Valve and Automatic Pilot connection port

Designed to provide smooth and precise steering for mid-range outboard engines, with no feedback at the wheel.

MF175-WTS

Steering System kit up to 175 HP with slider cylinder and horns mount.



Performance		
Output force:	290 Kgf	640 lbf
Torque:	60 Kgm	588 Nm
Max Speed:	55 knots	
Turns:	5.4	
Components		
Pump:	TL1-16 MRA, 16 cc/rev, max 80 bar	
Cylinder:	MC175WTS, 86 cc, Stroke 208 mm	
Hose set:	5/16 twin, 5.5+5.5 m (18') W.P.: 120 bar - B.P. 480 bar	
Oil:	2L E-HVLP 46	
Price:		

i Required cylinder space: 540 mm (21")

with Anti-Feedback Valve and Automatic Pilot connection port

Heavy-duty hydraulic steering kit for outboard engines up to 175 HP with a slider cylinder, suitable for confined installations.

MF350W-SP

Steering System kit up to 350 HP with two-position engine plate.



Required cylinder space: 720 mm (28")

with Anti-Feedback Valve and Automatic Pilot connection port

Performance		
Output force:	495 Kgf	1090 lbf
Torque:	102 Kgm	1000 Nm
Max Speed:	75 knots	
Turns:	3.8	
Components		
Pump:	TL2-40SP MRA, 38 cc/rev, max 100 bar	
Cylinder:	MC350W, 146 cc, Stroke 206 mm	
Hose set:	5/16 twin, 7+7 m (23') W.P.: 120 bar - B.P. 480 bar	
Oil:	2L E-HVLP 46	
Price:		

Racing hydraulic steering system for high-power outboard engines, engineered for high-speed operation and continuous heavy-duty loads.

MF255-WTS TDF

Steering System kit for twin engines up to 300+300 HP



Adjustable tie bar 540-620 mm (21,3"-24,4")

with Anti-Feedback Valve and Automatic Pilot connection port

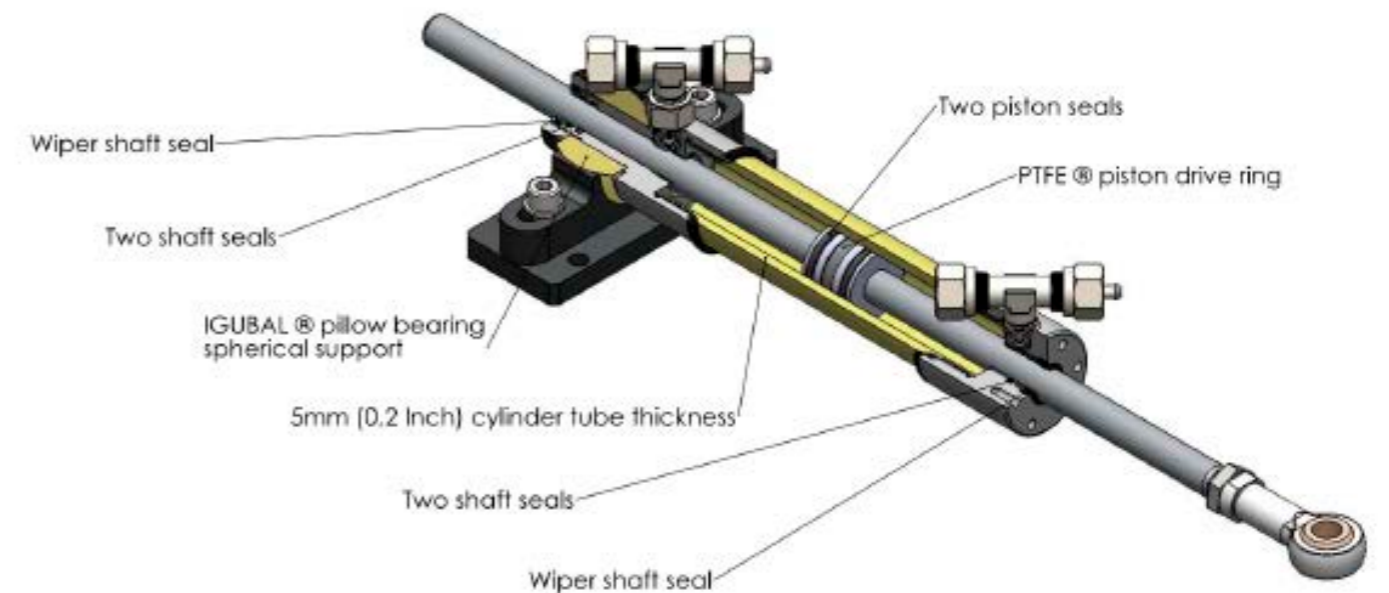
Performance		
Output force:	2 x 422 kgf	2 x 930 lbf
Torque:	2 x 88 Kgm	2 x 863 Nm
Max Speed:	55 knots	
Turns:	6.5	
Components		
Pump:	TL2-40SP MRA, 38 cc/rev, max 100 bar	
Cylinder:	2 x MC255WTS, 125 cc, Stroke 206 mm	
Hose set:	5/16 twin, 7+7 m (23') W.P.: 120 bar - B.P. 480 bar	
Oil:	3L E-HVLP 46	
Price:		

Heavy-duty hydraulic steering kit for outboard engines up to 300+300 HP with a slider cylinder, suitable for confined installations.

INBOARD SYSTEMS

Hydrodrive® inboard hydraulic steering systems are designed for shaft-driven boats up to 20 m (66 ft). The systems provide stable and predictable steering response under continuous load conditions. Balanced hydraulic cylinders ensure equal steering force port and starboard.

Universal Application

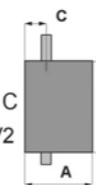


$$M = F \times D$$

(Kg./Mt.)

$$D = (0,4 \times A) - C$$

$$F = 2,3 \times S \times V^2$$



Calculation of the Rudder torque M (kg./m)

B = Rudder height
A = Rudder length
C = Rudder compensation

V = Speed (km/h)
S = Rudder surface
(1 knot=1,852 km/h) (A*B in m)



Learn more

Key features:

- Auto-lubricating bearings: IGUBAL® spherical bearing supports provide smooth operation without periodic lubrication.
- Easy retrofit: Ideal for replacing existing mechanical steering systems.
- Maintenance-free design: No regular maintenance or oil refilling required during normal operation.
- Pre-installed fittings: Comes with pre-installed fittings to simplify the installation process.

MU50TF

Steering System kit up to 12 m [40ft]



Performance		
Output force:	387 Kgf	853 lbf
Torque:	58 Kgm	570 Nm
Max Speed:	35 knots	
Turns:	5	
Components		
Pump:	TL1-16, 16 cc/rev, max 80 bar	
Cylinder:	MC50, 83 cc, Stroke 150 mm	
Hose set:	5/16 twin, 5+5 m (16') W.P.: 120 bar - B.P. 480 bar	
Oil:	1L E-HVLP 46	
Price:		

Auto-Lubricating Bearings: Equipped with IGUBAL® spherical bearing supports, ensuring smooth and maintenance-free operation over time.

MU75TF-MRA

Steering System kit up to 14 m [46ft] with Anti Feedback Valve



Performance		
Output force:	354 Kgf	780 lbf
Torque:	80 Kgm	785 Nm
Max Speed:	45 knots	
Turns:	4	
Components		
Pump:	TL2-30 MRA, 28 cc/rev, max 80 bar	
Cylinder:	MC75, 114 cc, Stroke 225 mm	
Hose set:	5/16 twin, 7+7 m (23') W.P.: 120 bar - B.P. 480 bar	
Oil:	2L E-HVLP 46	
Price:		

Auto-Lubricating Bearings: Equipped with IGUBAL® spherical bearing supports, ensuring smooth and maintenance-free operation over time.

MU50TF-MRA

Steering System kit up to 12 m [40ft] with Anti Feedback Valve



Performance		
Output force:	387 Kgf	853 lbf
Torque:	58 Kgm	570 Nm
Max Speed:	35 knots	
Turns:	5	
Components		
Pump:	TL1-16 MRA, 16 cc/rev, max 80 bar	
Cylinder:	MC50, 83 cc, Stroke 150 mm	
Hose set:	5/16 twin, 5+5 m (16') W.P.: 120 bar - B.P. 480 bar	
Oil:	1L E-HVLP 46	
Price:		

Auto-Lubricating Bearings: Equipped with IGUBAL® spherical bearing supports, ensuring smooth and maintenance-free operation over time.

with Anti-Feedback Valve and Automatic Pilot connection port

MU100TF, MU100TF-MRA

Steering System kit up to 20 m [66ft] for Sailing boats



Performance		
Output force:	495 Kgf	1091 lbf
Torque:	112 Kgm	1098 Nm
Max Speed:	45 knots	
Turns:	5.5	
Components		
MRA Pump:	TL2-30 MRA, 28 cc/rev, max 80 bar	
Standard Pump:	TL2-30, 28 cc/rev, max 80 bar	
Cylinder:	MC1000, 160 cc, Stroke 225 mm	
Hose set:	5/16 twin, 8+8 m (26') W.P.: 120 bar - B.P. 480 bar	
Oil:	3L E-HVLP 46	
MU100TF Price:		
MU100TF-MRA Price		

The standard model provides direct feedback steering, while the MRA model features a lock valve for wave-isolated, calm, and precise control.

MRA kit: with anti-feedback valve and autopilot connection port



Custom Hydraulic Steering

At Hydrodrive® Solution, we go beyond off-the-shelf hydraulic steering systems to deliver custom-engineered solutions for the most demanding and unique requirements.

Our focus is precision, reliability, and long-term performance, applied consistently to every system we design, regardless of the application



When to Choose a Custom Hydraulic Steering System

Every vessel or machine presents its own challenges. Standard hydraulic steering solutions may fall short when specific operational or installation requirements must be met, particularly when:

1. Compact installations, such as jet boats, special workboats, or small lawn tractors, require intelligent design solutions that deliver full performance within confined spaces.
2. Performance is critical
3. High-load applications, rapid steering response, or operation in extreme environments demand systems engineered to withstand stress without compromise.
4. Space is limited
5. Unique configurations are required
6. A customized steering system ensures seamless integration with existing equipment, optimized geometry, and reliable operation tailored to your exact setup.
7. For catamarans where standard steering systems cannot synchronize dual rudders.

That's where Hydrodrive Solution excels.

Share Your Vision

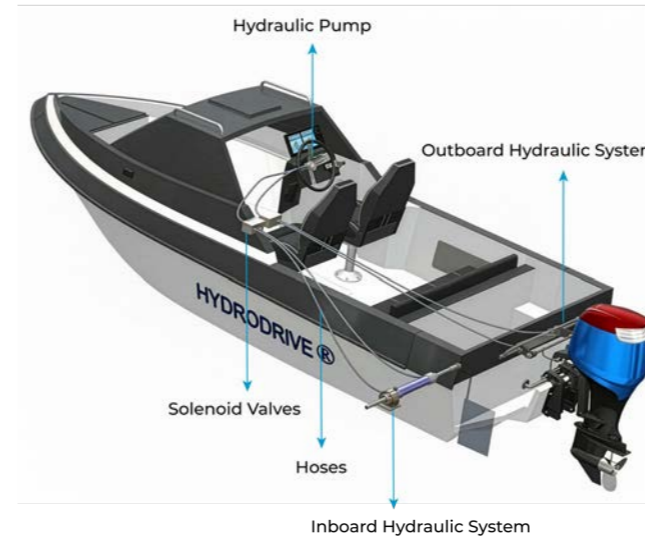
Hydrodrive Solution supports you from concept to execution. Get in touch to discuss your project.

Solenoid Valve System

Kit for Controlling Two Independent Hydraulic Steering Systems from a Single Helm



Scan the QR code to see how the system works.



Ideal for dual-steering setups such as:

- Sailing boats with both: rudder and outboard engine
- Outboards with dual propulsion, such as one gasoline and one electric engine

Key Features:

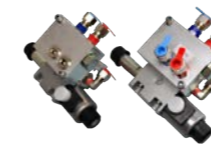
- Available in 12 V or 24 V
- Includes solenoid valve diverter and flush-mounted key selector switch
- Ensures seamless switching between two independent hydraulic circuits

SKU	Description	Price
SD03LCB2-12	12 V system	
SD03LCB2-24	24 V system	
SO-REPKIT-01	Solenoid valves repairing kit	

This kit allows the user to operate two separate hydraulic steering systems using a single control station. It is designed for auxiliary and backup steering applications.

How to order

1. Choose the Solenoid Valve Voltage



SD03LCB2-12 for 12 V

SD03LCB2-24 for 24 V

2. Choose the pump



TL1 series hydraulic pump

TL2 series hydraulic pump

3. Choose the cylinders



Choose the 2 cylinder that is compatible with your engine or rudder

4. Add the required hose set

- 1x RS813AC hose set from the pump to the solenoid valves
- 2x1 RS813AC hose set from the solenoid valves to the cylinders.

5. Add Hydraulic oil



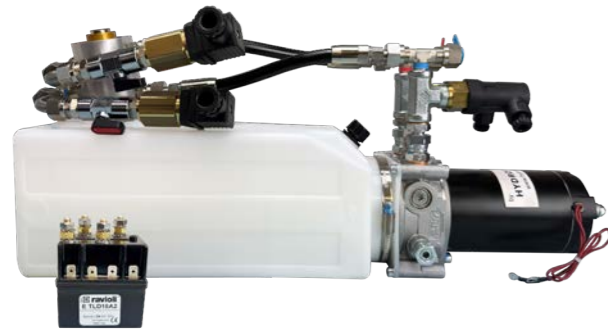
Complete system includes

- Solenoid Valve (12 V or 24 V)
- Hydraulic pump
- 2 x Hydraulic cylinder
- 3 x Hose sets
- Hydraulic oil

Servo Steering System

12 V/24 V Reversible Power Unit with for Autopilot application and servo steering

A high-performance power unit designed for robust hydraulic steering applications.



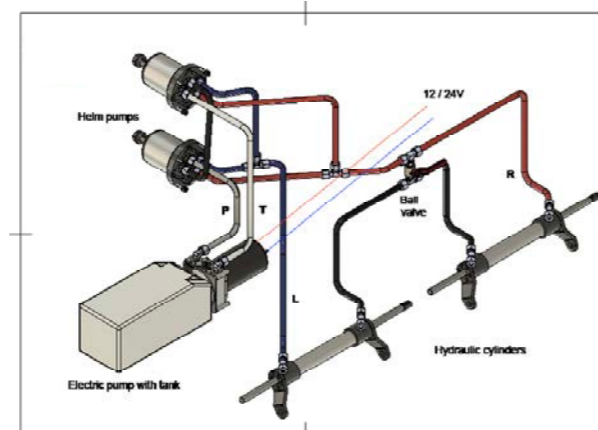
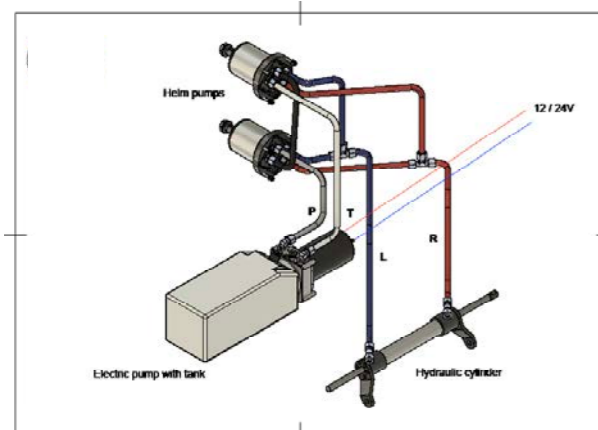
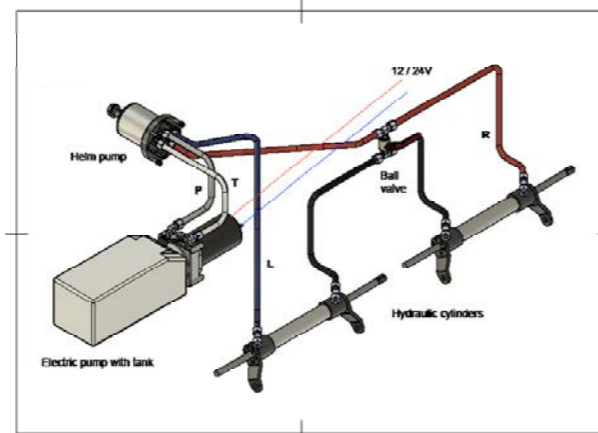
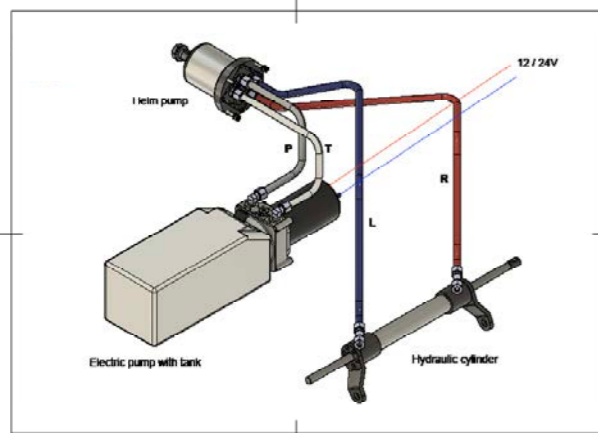
Technical Specifications:

- 12 V or 24 V 150W motor
- 0.26 cc/rev reversible pump
- Integrated pressure switches, pressure relief valve, fittings, and relays
- Thermal switch
- Supplied with a 1 L hydraulic tank

Key Features:

- Compatible with standard manual Steering systems
- Ideal for use with autopilot systems as well.

SKU	Description	Price
PPM240927-12-26	12 V system	
PPM240927-24-26	24 V system	



HYDRO-DYNAMIC System

for power-assisted hydraulic steering systems



Scan the QR code to see how the system works.



Technical Specifications:

OG32HY2847	Power steering gear, with fittings	32cc/rev - 1,95 cu in	Low steering torque from 0,5 to 2Nm	For cylinders with volume up to 330cc / 20,14 cu in
OG50HY2847	Power steering gear, with fittings	50cc/rev - 3,05 cu in	Low steering torque from 0,5 to 2Nm	For cylinders with volume up to 330cc / 20,14 cu in
OG63HY2847	Power steering gear, with fittings	63cc/rev - 3,84 cu in	Low steering torque from 0,5 to 2Nm	For cylinders with volume up to 330cc / 20,14 cu in

How to order

1. Choose the power unit voltage



2. Choose the power steer gear



3. Choose the cylinder



PPM240927-12-26 for 12 V

OG32HY2847

Choose the cylinder that is compatible with your engine or rudder.

PPM240927-24-26 for 24 V

OG50HY2847

OG63HY2847

4. Add the required hose set

- 1x RS813AC hose set from hydraulic power unit to cylinder
- 1x RS813AC hose set from power steering to hydraulic device

5. Add Hydraulic oil



Complete system includes

- Power steering gear (32cc/50cc/63cc)
- Hydraulic power unit (12 V or 24 V)
- Hydraulic cylinder
- Hose sets
- Hydraulic oil

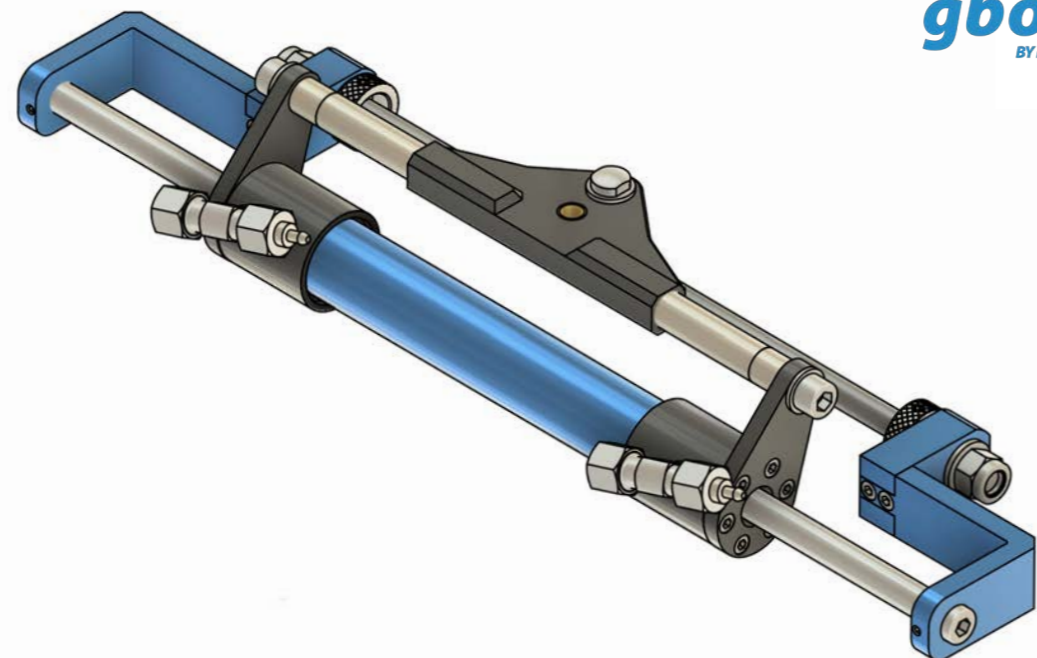
OUTBOARD SYSTEMS

gboSTEER® Models

Available up to 300 HP with compact slider cylinder and with a 1 year of warranty.

Compact, modern, and efficient hydraulic steering systems where the cylinder moves with the load, potentially reducing the need for long rod extensions.

Universal Application



gboSTEER®
BY HYDRODRIVE®

Key features:

- **Space saving slider-cylinder:** The cylinder body moves along the steering rod, ideal for limited space installations.
- **Easy Retrofit:** Ideal for replacing existing mechanical steering systems, with straightforward installation procedures.
- **Affordable quality:** Delivers precise, smooth control with the reliability of Hydrodrive engineering.

GB090-WTS

Steering System kit up to 75 HP with horns mount and slider cylinder



with Anti-Feedback Valve
and Automatic Pilot connection port

Performance		
Output force:	220 Kgf	485 lbf
Torque:	46 Kgm	451 Nm
Max Speed:	35 knots	
Turns:	4.5	
Components		
Pump:	WTL160, 16 cc/rev, max 60 bar	
Cylinder:	WMC90WTS, 68 cc, Stroke 202 mm	
Hose set:	5/16 twin, 4.5+4.5 m (15') W.P.: 120 bar - B.P. 480 bar	
Oil:	1L E-HVLP 46	
Price:		
MOQ: 50 set		

Horns are preinstalled on the cylinder rod for easy installation.

GB0150-WTS

Steering System kit up to 150 HP with horns mount and slider cylinder



with Anti-Feedback Valve
and Automatic Pilot connection port

Performance		
Output force:	236 Kgf	520 lbf
Torque:	50 Kgm	490 Nm
Max Speed:	35 knots	
Turns:	4.4	
Components		
Pump:	WTL160, 16 cc/rev, max 60 bar	
Cylinder:	WMC150WTS, 71 cc, Stroke 210 mm	
Hose set:	5/16 twin, 5+5 m (16') W.P.: 120 bar - B.P. 480 bar	
Oil:	1L E-HVLP 46	
Price:		
MOQ: 50 set		

Horns are preinstalled on the cylinder rod for easy installation.

GBO200-WTS

Steering System kit up to 200 HP with horns mount and slider cylinder



Performance		
Output force:	290 Kgf	640 lbf
Torque:	60 Kgm	588 Nm
Max Speed:	55 knots	
Turns:	5,4	
Components		
Pump:	WTL160, 16 cc/rev, max 60 bar	
Cylinder:	WMC200WTS, 86 cc, Stroke 208 mm	
Hose set:	5/16 twin, 5.5+5.5 m (18') W.P.: 120 bar - B.P. 480 bar	
Oil:	1L E-HVLP 46	
Price:		
MOQ: 50 set		

with Anti-Feedback Valve and Automatic Pilot connection port

Horns are preinstalled on the cylinder rod for easy installation.

GBO300-WTS

Steering System kit up to 300 HP with horns mount and slider cylinder



Performance		
Output force:	422 Kgf	930 lbf
Torque:	88 Kgm	863 Nm
Max Speed:	55 knots	
Turns:	4.5	
Components		
Pump:	TL2-30 MRA, 28 cc/rev, max 80 bar	
Cylinder:	WMC300WTS, 125 cc, Stroke 206 mm	
Hose set:	5/16 twin, 6+6 m (20') W.P.: 120 bar - B.P. 480 bar	
Oil:	2L E-HVLP 46	
Price:		
MOQ: 20 set		

with Anti-Feedback Valve and Automatic Pilot connection port

Horns are preinstalled on the cylinder rod for easy installation.

Hydrodrive® Hydraulic Pumps



Pump:	Description:	Compatible applications:	Lock-Valve/ Auto Pilot port:	Price:
TL1-16	16 cc pump	MF75W, MF90W, MU50TF	No	
TL1-16 MRA	16 cc pump	MF115 MRA, MF175W, MF175WTS, MU50TF- MRA	Yes	
TL2-30	28 cc High precision pump	MU100TF	No	
TL2-30 MRA	28 cc High precision pump	MF255WTS, MF350W,- MU75TF-MRA, MU100TF-MRA	Yes	
TL2-40SP MRA	38 cc High precision pump	MF350W-SP, MF350W-TDF	Yes	

Hydrodrive® Hydraulic Cylinders



Cylinder:	Stroke:	Application:	Volume:	Price:
MC75W	202 mm	MF75W	68 cc.	
MC115W	210 mm	MF115 MRA	71 cc.	
MC175W (Twin Arm)	208 mm	MF175W	86 cc.	
MC175 WTS (Horns)	208 mm	MF175 WTS	86 cc.	
MC255 WTS (Horns)	206 mm	MF255 WTS	125 cc.	
MC350W (Twin Arm)	206 mm	MF350W, MF350W-SP, MF350W-TDF	146 cc.	
MC50 (Inboard)	150 mm	MU50TF, MU50TF-MRA	83 cc.	
MC75 (Inboard)	225 mm	MU75TF-MRA	114 cc.	
MC1000 (Inboard)	225 mm	MU100TF, MU100TF-MRA	160 cc.	

gboSTEER® Hydraulic Pumps



Pumps:	Description:	Lock-Valve/	Price:
WTL160	16 cc pump	Yes	
TL2-30 MRA	28 cc pump	Yes	

gboSTEER® Hydraulic Cylinders



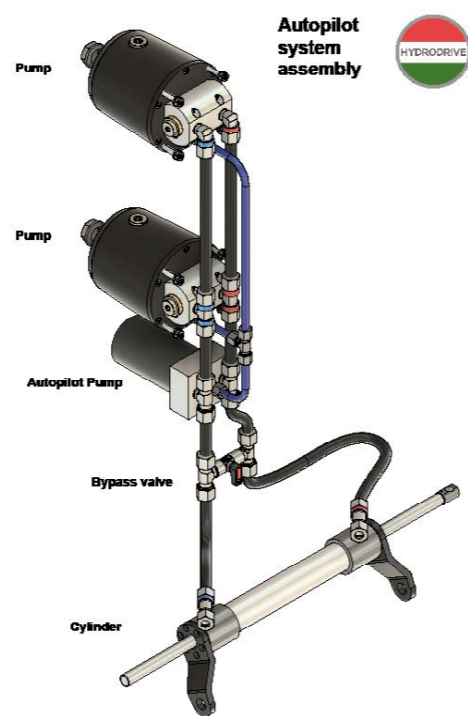
Cylinders:	Stroke:	Compatible application:	Volume:	Price:
WMC90-WTS	202 mm	GBO90-WTS	68 cc	
WMC150-WTS	210 mm	GBO150-WTS	71 cc	
WMC200-WTS	208 mm	GBO200-WTS	86 cc	
WMC300-WTS	206 mm	GBO300-WTS	125 cc	

APMF – Autopilot Application Kit for Hydrodrive® and gboSTEER® Systems

The APMF Automatic Pilot Connection Kit enables seamless integration of an autopilot system with WTL160, TL1-16MRA, TL2-30MRA, and TL2-40MRA hydraulic steering pumps.

Designed for reliable pressure balance and smooth operation, it ensures accurate autopilot control without affecting manual steering performance.

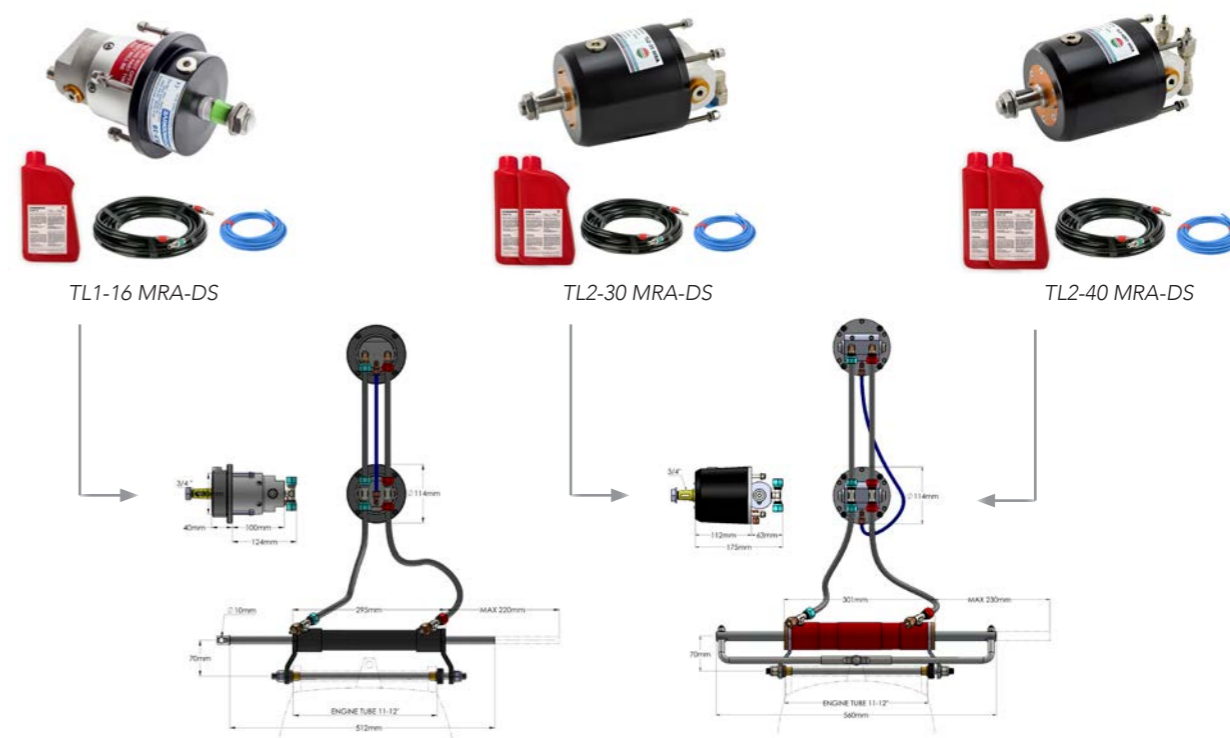
Kit includes:
All components required to connect the hydraulic steering system to the autopilot.



Price:




Second Station kits


TL1-16 MRA-DS	TL2-30/40 MRA-DS
<ul style="list-style-type: none"> TL1-16 MRA-T Pump with Tee Fittings 5 m (16') twin hose set 1/8" fittings 1 l bottle of Hydraulic Oil Pump connections Hose set 	<ul style="list-style-type: none"> TL2-30/40 MRA-T Pump with Tee Fittings 7-8 m (23Ft-26Ft) twin hose set 1/8" fittings 2 l bottles of Hydraulic Oil Pump connections Hose set
Compatible with TL1 series pumps	Compatible with TL230 and TL2-40 series pumps
Price:	Price:

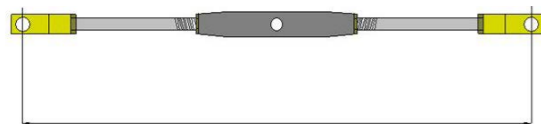



**FOR BOATS WITH
DUAL STEERING
STATIONS**

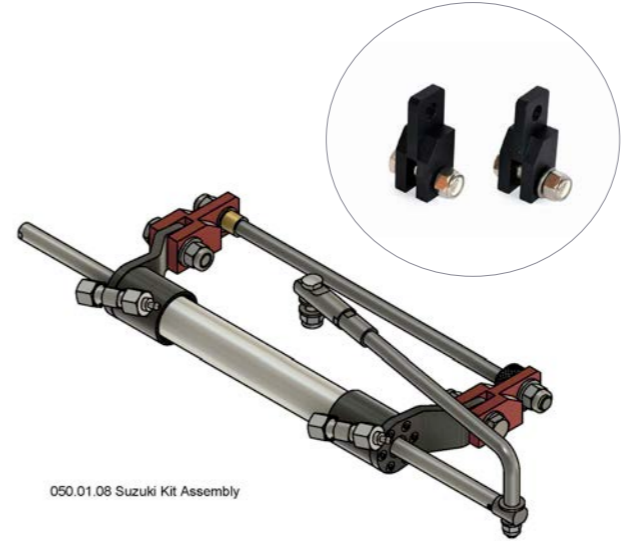

Spare Parts and Accessories

Seal Repair Kit for pumps TL1 Series	Seal Repair Kit for pumps TL2 Series	Seal Repair Kit for Cylinders
<p>Kit includes: All seals, ball bearings, bushes, screws, nuts, and all components required to repair the hydraulic pump.</p> 	<p>Kit includes: All seals, ball bearings, bushes, screws, nuts, and all components required to repair the hydraulic pump.</p> 	<p>Kit includes: All seals, bushes, screws, nuts, and all components required to repair the hydraulic cylinder.</p> 
Price:	Price:	Price:


EXTGTN-14-10	
	<p>90° elbow extension fitting for TL1 and TL2 pump series.</p> <p>1/4" fittings used to change the hose routing direction from the pump toward the cylinder.</p>
Price:	

BTW62, BTW70, BTW75 Adjustable Tie Bar	BR72 Adjustable Engine Arm
 <p>Suitable for MF350W-TDF or twin engine applications.</p> <p>BTW62: 540-620 mm (21,3"-24,4") BTW70: 620-700 mm (24,4"-27,6") BTW75: 700 - 760 mm (27,6"-30")</p>	 <p>Fork connection</p> <p>Standard on the model MF115 MRA, MF75W</p>
Price:	Price:





Spare Parts and Accessories

050.01.08. Extension kit for Suzuki engines	MSL LEVER (for stick-steering system)
<p>Suitable for all Hydrodrive Cylinders 50 mm extension complete kit includes 2 pcs.</p>  <p>050.01.08 Suzuki Kit Assembly</p>	<p>Aluminium lever with hub and screws, 360 mm. – 14" (radius 180 mm – 7")</p> <p>Suitable for Hydraulic pumps TL1-16, TL1-16 MRA, TL2-30, TL2-30 MRA and TL2-40SP-MRA</p> 
Price:	Price

Twin hose set with plug-in fittings or screw - M16 x 1.5 (personalized length on request)		Hose extension kit (personalized length on request)	
			
Description:	Price:	Description:	Price:
RS813AC, Roll of 100m (328 ft)		Hose set supplied with 2x 9460.00.004 (straight connector fittings)	
RS813AC-W70, twin 0,75 m (2,5')		RS813EXTAC1-3 Twin 1 m (3')	
RS813AC2-6,5, twin 2 m (6.5')		Every meter plus Euro	
Every meter plus Euro			



151.00.00 Straight bulkhead twin connector (1/4" – 10 mm)	
	<p>High-quality straight bulkhead connectors for clean and secure hose pass-through installations.</p> <p>Suitable for 1/4" ports with 10 mm hose connections.</p>
	Price:

Fittings

724.0014	TTN-10/TTN-8	TTN-14-10/TTN-18-8	GTN-14-10/GTN-18-8
			
Tee fitting 1/4-10 mm Purge Valve Cylinder application	Tee Fitting 3 ways 10 mm tube 8 mm tube Hose connection	Tee fitting 1/4-10 mm, 8 mm Cylinder application Autopilot application	Elbow fitting (90°) 1/4-10 mm Pump application G1/8-8 mm tube Autopilot Application
Price:	Price:	Price:	Price:

AC516	DTN-14-10/DTN-18-8	9460.00.004	97.40.00
			
5/16-10 mm Hose set application Hose set end fitting	Straight fittings DTN-14-10: G 1/4"-10 mm tube DTN-18-8: G 1/8"-8 mm tube	10 mm straight connection fitting Hose extension applica- tion (AC516)	Olive 10 mm fittings application 98.40.00: 8 mm
Price:	Price:	Price:	Price:

FR10+PL140+AD10	MBY4 By-Pass Valve
	
Fixing ring/flange for TL2 Flush mount Spacers 10-30 mm (0,4"-1,2")	Twin hose set of 2 m (6,5 Ft) and fittings included
Price:	Price:

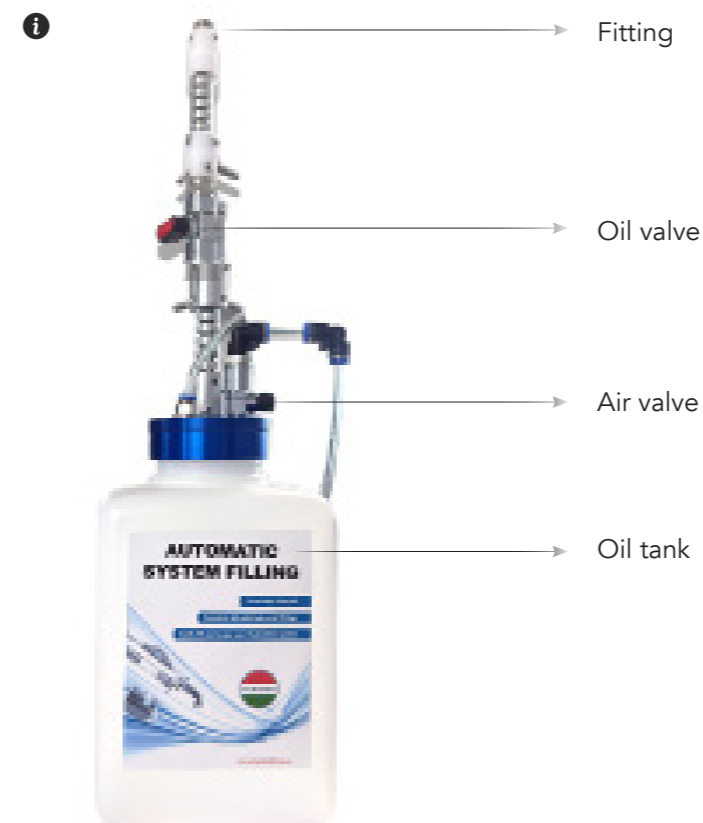
MRA Line	PST-165-80 Plexiglass Plate
	
Lock-Valve for In line mounting applications, kit includes twin hose set of 0,75m+0,75m and fittings	Plexiglass mounting plate designed for TL1 hydraulic pump series <ul style="list-style-type: none"> • Size: 165 × 165 mm (6.5" × 6.5") • Thickness: 8 mm (0.32")

Automatic Oil Filling kit

No more air bubbles and spongy steering!

Setting up a hydraulic steering system doesn't have to be complicated. With our Automatic Oil Filling System, you can eliminate one of the most frustrating steps: removing air from the system.

This easy-to-use tool simplifies the filling and bleeding process by automatically feeding oil into the system while efficiently pushing out trapped air.



Compatible with:

All Hydrodrive® and gboSTEER® hydraulic steering systems.

How it works:

- The Automatic Oil Filling System connects directly to the steering pump and cylinder purge ports.
- When the oil and air valves are opened, the system feeds hydraulic oil into the helm while trapped air is released through the cylinder purge fittings.
- By simply turning the steering wheel lock-to-lock, the system automatically fills and bleeds until all air bubbles are removed, resulting in a fully purged hydraulic steering system.

When should you choose the Automatic Filling System?

- ✓ If you are tired of fighting trapped air.
- ✓ If you don't want to deal with power tools or external energy.
- ✓ If you want faster, easier installations.

Price:



Scan the QR code for installation video
how it
to see how the system works.

Technical drawings

<p>TL1-16 Hydraulic Pump</p>	<p>TL1-16 MRA Hydraulic Pump</p>
<p>TL2-30 Hydraulic Pump</p> <p>Pompa: TL2-F / attacco FRONTALE</p>	<p>TL2-30 MRA Hydraulic Pump</p>
<p>MF75W Outboard Hydraulic Steering</p>	<p>MF115 MRA Outboard Hydraulic Steering</p>
<p>MF175W Outboard Hydraulic Steering</p>	<p>MF175 WTS Outboard Hydraulic Steering</p>

Technical drawings

<p>MF255WTS-TDF Outboard Hydraulic Steering kit for twin engine</p>	
<p>MU50TF, MU50TF-MRA Inboard Hydraulic Steering</p>	<p>MU75T, MU75TF-MRA Inboard Hydraulic Steering</p>
<p>MU100TF, MU100TF MRA Inboard Hydraulic Steering</p>	<p>MBY4 Installation drawing</p>
<p>MSL lever with TL2 Pump</p>	



*Hydrodrive®
New Era of Easy Steering*

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